

## Bibliography from ADS file: kosovichev.bib

September 14, 2022

- Guerrero, G., Stejko, A. M., Kosovichev, A. G., Smolarkiewicz, P. K., & Strugarek, A., “Implicit large eddy simulations of global solar convection: effects of numerical resolution in non-rotating and rotating cases”, 2022arXiv220805738G [ADS](#)
- Getling, A. V. & Kosovichev, A. G., “Spatial Scales and Time Variation of Solar Subsurface Convection”, 2022arXiv220804642G [ADS](#)
- Stejko, A. M., Kosovichev, A. G., Featherstone, N. A., et al., “Constraining Global Solar Models through Helioseismic Analysis”, 2022ApJ...934..161S [ADS](#)
- Kitiashvili, I., Sadykov, V., Wray, A., & Kosovichev, A., “Physics-based Modeling of Multiscale Solar Dynamics for Understanding Origins of Space Weather Disturbances”, 2022cosp...44.3232K [ADS](#)
- Kosovichev, A., Pipin, V., Getling, A., et al., “Helioseismic Monitoring of Solar Subsurface Dynamics and Activity”, 2022cosp...44.3215K [ADS](#)
- Dikpati, M., Gilman, P. A., Guerrero, G. A., et al., “Simulating Solar Near-surface Rossby Waves by Inverse Cascade from Supergranule Energy”, 2022ApJ...931..117D [ADS](#)
- Kitiashvili, I., Granovsky, S., Wray, A., & Kosovichev, A., “Characterization of Stellar Jitter Using 3D Realistic Modeling of Solar-Type Stars”, 2022AAS...24041702K [ADS](#)
- Stefan, J. & Kosovichev, A., “Detection of Phase Travel Time Anisotropy from Subsurface Horizontal Magnetic Fields in the Sun”, 2022AAS...24035014S [ADS](#)
- Stefan, J. T. & Kosovichev, A. G., “Detection of Travel Time Anisotropy from Subsurface Horizontal Magnetic Fields”, 2022ApJ...930...10S [ADS](#)
- Nogueira, H. D., Guerrero, G., Smolarkiewicz, P. K., & Kosovichev, A. G., “Numerical Convergence of 2D Solar Convection in Implicit Large-eddy Simulations”, 2022ApJ...928..148N [ADS](#)
- Kosovichev, A. G., Guerrero, G., Stejko, A. M., Pipin, V. V., & Getling, A. V., “Advances and Challenges in Observations and Modeling of the Global-Sun Dynamics and Dynamo”, 2022arXiv220310721K [ADS](#)
- Nita, G., Ahmadzadeh, A., Criscuoli, S., et al., “Revisiting the Solar Research Cyberinfrastructure Needs: A White Paper of Findings and Recommendations”, 2022arXiv220309544N [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., Sadykov, V. M., & Guerrero, G., “Leptocline as a Shallow Substructure of Near-Surface Shear Layer in 3D Radiative Hydrodynamic Simulations”, 2022arXiv220301484K [ADS](#)
- Getling, A. V. & Kosovichev, A. G., “Spatial Spectrum of Solar Convection from Helioseismic Data: Flow Scales and Time Variations”, 2022arXiv220100638G [ADS](#)
- Guerrero, G., Stejko, A., Kosovichev, A., Getling, A., & Smolarkiewicz, P., “Multiscale Organization of Turbulent Convection in Global-Sun Simulations”, 2021AGUFMSH55D1885G [ADS](#)
- Stejko, A., Kosovichev, A., Pipin, V., et al., “3D Helioseismic Forward-Modeling and Analysis of Meridional Circulation”, 2021AGUFMSH55D1870S [ADS](#)
- Stefan, J. & Kosovichev, A., “Examining Correlations Between Helioseismic Signatures of Active Regions and their Emergence”, 2021AGUFMSH55D1866S [ADS](#)
- Gilman, P., Dikpati, M., Guerrero, G., et al., “Origin of Rossby waves observed near the solar surface”, 2021AGUFMSH53C..04G [ADS](#)
- Kosovichev, A., Getling, A., Guerrero, G., Pipin, V., & Stejko, A., “Large-Scale Dynamics of Solar Subsurface Shear Layer: Theoretical Predictions and Helioseismic Inferences”, 2021AGUFMSH53C..03K [ADS](#)
- Kitiashvili, I., Sadykov, V., Kosovichev, A., & Wray, A., “Dynamical Coupling of the Solar Subsurface Shear Layer and the Atmosphere”, 2021AGUFMSH53C..01K [ADS](#)
- Kitiashvili, I., Sadykov, V., Wray, A., & Kosovichev, A., “3D Radiative MHD Modeling of the Solar Atmospheric Dynamics and Structure”, 2021AGUFMSH45B2370K [ADS](#)
- Sadykov, V., Kitiashvili, I., Kosovichev, A., & Wray, A., “Physical Properties of the Solar Atmosphere Derived from Comparison of Spectro-Polarimetric SDO/HMI Observables with 3D Radiative MHD Simulations”, 2021AGUFMSH44A..06S [ADS](#)
- Reiss, M., Muglach, K., Moestl, C., et al., “The Observational Uncertainty of Coronal Hole Boundaries in Automated Detection Schemes”, 2021AGUFMSH15G2083R [ADS](#)
- Guerrero, G., Kitiashvili, I., Bonanno, A., & Kosovichev, A., “Simulating Exoplanet Host Star -Horologii from the Surface to the Bottom of the Convection Zone”, 2021AGUFM.U44B..02G [ADS](#)
- Rozelot, J. P. & Kosovichev, A. G., “Solar Gravitational Moments: What Are They and What Do They Do? A Short Comprehensive Review”, 2021simi.conf...92R [ADS](#)
- Kosovichev, A. & Kitiashvili, I., “Probing Stellar Cores by Asteroseismic Inversions”, 2021tsc2.confE.130K [ADS](#)
- Sadykov, V., Kosovichev, A., Kitiashvili, I., et al., “Prediction of Solar Proton Events with Machine Learning: Comparison with Operational Forecasts and “All-Clear” Perspectives”, 2021arXiv210703911S [ADS](#)
- Stefan, J. T., Kosovichev, A. G., & Stejko, A. M., “Analysis of Time-Distance Helioseismology for Detection of Emerging Active Regions”, 2021ApJ...913...87S [ADS](#)
- Sadykov, V., Kitiashvili, I., Kosovichev, A., & Wray, A., “Physical Properties of the Solar Atmosphere Derived from Comparison of Spectro-Polarimetric SDO/HMI Observables with 3D Radiative MHD Simulations”, 2021AA...23832804S [ADS](#)
- Kosovichev, A., Pipin, V., & Getling, A., “The Origin Of The Extended Solar Cycle”, 2021AA...23830405K [ADS](#)
- Hoeksema, J. T., Brummell, N., Bush, R., et al., “Understanding the Consequences Of Fields and Flows in the Interior and Exterior of the Sun (COFFIES)”, 2021AA...23811322H [ADS](#)
- Stefan, J. & Kosovichev, A., “Travel Time Anisotropy Due to Subsurface Magnetic Fields”, 2021AA...23811317S [ADS](#)
- Reiss, M. A., Muglach, K., Möstl, C., et al., “The Observational Uncertainty of Coronal Hole Boundaries in Automated Detection Schemes”, 2021ApJ...913...28R [ADS](#)
- Kosovichev, A. & Sharykin, I., “Characteristics of Sunquake Events Observed in Solar Cycle 24”, 2021EGUGA..23.1461K [ADS](#)
- Stejko, A. M., Kosovichev, A. G., & Pipin, V. V., “Forward Modeling Helioseismic Signatures of One- and Two-cell Meridional Circulation”, 2021ApJ...911...90S [ADS](#)
- Kosovichev, A. G., Getling, A. V., & Pipin, V. V., “Helioseismic Observations and Modeling of Solar Dynamo”, 2021csss.confE.115K [ADS](#)
- Stejko, A., Kosovichev, A., & Pipin, V., “Modeling Helioseismic Signatures of Meridional Circulation”, 2021csss.confE.114S [ADS](#)
- Sadykov, V. M., Kitiashvili, I. N., Sainz Dalda, A., et al., “Compression of Solar Spectroscopic Observations: a Case Study of Mg II k Spectral Line Profiles Observed by NASA’s IRIS Satellite”, 2021arXiv210307373S [ADS](#)
- Stejko, A. M., Kosovichev, A. G., & Mansour, N. N., “Helioseismic Modeling of Background Flows”, 2021ApJS..253....9S [ADS](#)
- Sadykov, V. M., Kitiashvili, I. N., Kosovichev, A. G., & Wray, A. A., “Connecting Atmospheric Properties and Synthetic Emission of Shock Waves Using 3D RMHD Simulations of the Quiet Sun”, 2021ApJ...909...35S [ADS](#)
- Getling, A. V., Kosovichev, A. G., & Zhao, J., “Evolution of Subsurface Zonal and Meridional Flows in Solar Cycle 24 from Helioseismological Data”, 2021ApJ...908L..50G [ADS](#)
- Kitiashvili, I. N., Wray, A. A., & Kosovichev, A. G., “3D Realistic Modeling of Main-Sequence Stars with Shallow Outer Convection Zone”, 2021AA...23741505K [ADS](#)
- Criscuoli, S., Kazachenko, M., Kitashvili, I., et al., “Challenges and Advances in Modeling of the Solar Atmosphere: A White Paper of Findings and Recommendations”, 2021arXiv210100011C [ADS](#)
- Kosovichev, A. G., Brummell, N., Dikpati, M., et al., “Helioseismic Constraints on the Solar Interior Dynamics and Dynamo”, 2020AGUFMSH007..04K [ADS](#)
- Stefan, J. T. & Kosovichev, A. G., “Early Detection of Emerging Magnetic Flux using Time-Distance Helioseismology”, 2020AGUFMSH00200011S [ADS](#)
- Hoeksema, J. T., Brummell, N., Bush, R. I., et al., “COFFIES -Developing a Reliable Physical Model of the Solar Activity Cycle”, 2020AGUFMSH0020007H [ADS](#)
- Kitiashvili, I., Zhao, J., Sadykov, V. M., et al., “Multi-Wavelength Modeling and Analysis of the Center-to-Limb Effects of Solar Spectroscopy and Helioseismology”, 2020AGUFMSH0020003K [ADS](#)
- Illarionov, E., Kosovichev, A., & Tlatov, A., “Machine-learning Approach to Identification of Coronal Holes in Solar Disk Images and Synoptic Maps”, 2020ApJ...903..115I [ADS](#)
- Rozelot, J. P., Kosovichev, A. G., Kilcik, A., et al., “Solar Multipolar Moments: an up-to-date Pedagogical Approach. Implications for Stellar Properties. Part I: an Analytical Overview (TUTORIAL)”, 2020simi.conf...1R [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “Torsional Oscillations in Dynamo Models with Fluctuations and Potential for Helioseismic Predictions of the Solar Cycles”, 2020ApJ...900...26P [ADS](#)
- Stefan, J. & Kosovichev, A., “Early Detection of Emerging Magnetic Flux”, 2020SPD...5120401S [ADS](#)
- Nita, G., Georgoulis, M., Kitiashvili, I., et al., “Machine Learning in Helioseismology and Space Weather Forecasting: A White Paper of Findings and Recommendations”, 2020arXiv200612224N [ADS](#)
- Sharykin, I. N. & Kosovichev, A. G., “Sunquakes of Solar Cycle 24”, 2020ApJ...895...76S [ADS](#)
- Stefan, J. T. & Kosovichev, A. G., “Estimation of Key Sunquake Parameters through Hydrodynamic Modeling and Cross-correlation Analysis”, 2020ApJ...895...65S [ADS](#)
- Reiter, J., Rhodes, E. J., J., Kosovichev, A. G., et al., “A Method for the Estimation of f- and p-mode Parameters and Rotational Splitting Coefficients from Un-averaged Solar Oscillation Power Spectra”, 2020ApJ...894...80R [ADS](#)

- Sadykov, V. M., Kosovichev, A. G., Kitiashvili, I. N., & Kerr, G. S., “Response of SDO/HMI Observables to Heating of the Solar Atmosphere by Precipitating High-energy Electrons”, [2020ApJ...893...24S](#) [ADS](#)
- Mdzinarishvili, T. G., Shergelashvili, B. M., Japaridze, D. R., et al., “Determination of the solar rotation parameters via orthogonal polynomials”, [2020AdSpR..65.1843M](#) [ADS](#)
- Kitiashvili, I. N., Wray, A. A., Sadykov, V., Kosovichev, A. G., & Mansour, N. N., “Realistic 3D MHD modeling of self-organized magnetic structuring of the solar corona”, [2020IAUS..354..346K](#) [ADS](#)
- Rozelot, J. P., Kosovichev, A. G., & Kilcik, A., “Solar oblateness & asphericities temporal variations: Outstanding some unsolved issues”, [2020IAUS..354..232R](#) [ADS](#)
- Kosovichev, A. G. & Kitiashvili, I. N., “Resolving Power of Asteroseismic Inversion of the Kepler Legacy Sample”, [2020IAUS..354..107K](#) [ADS](#)
- , “Solar and Stellar Magnetic Fields: Origins and Manifestations”, [2020IAUS..354....K](#) [ADS](#)
- Stejko, A. M., Guerrero, G., Kosovichev, A. G., & Smolarkiewicz, P. K., “3D MHD Modeling of the Impact of Subsurface Stratification on the Solar Dynamo”, [2020ApJ...888...16S](#) [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “On the Origin of Solar Torsional Oscillations and Extended Solar Cycle”, [2019ApJ...887..215P](#) [ADS](#)
- Kitiashvili, I., Wray, A. A., Sadykov, V. M., Kosovichev, A. G., & Mansour, N. N., “Solar activity modeling: from subgranular scales to the solar cycles”, [2019AGUFMSH31E3350K](#) [ADS](#)
- Kosovichev, A. G. & Sadykov, V. M., “Characterization of Subsurface Flow Dynamics for Forecasting of Solar Activity”, [2019AGUFMSH31E3347K](#) [ADS](#)
- Sadykov, V. M., Kitiashvili, I., & Kosovichev, A. G., “Cluster Analysis of Spectroscopic Line Profiles in IRIS Observations and RMHD Simulations of the Solar Atmosphere”, [2019AGUFMSH31E3345S](#) [ADS](#)
- Nita, G. M., Sadykov, V. M., Kosovichev, A. G., & Oria, V., “A Generalized Spectral Kurtosis Solar Image Variability Descriptor”, [2019AGUFMSH31E3340N](#) [ADS](#)
- Stejko, A. M., Guerrero, G., Kosovichev, A. G., & Smolarkiewicz, P. K., “3D MHD Modeling of the Impact of Subsurface Stratification on the Solar Dynamo”, [2019arXiv191109658S](#) [ADS](#)
- Guerrero, G., Zaire, B., Smolarkiewicz, P. K., et al., “What Sets the Magnetic Field Strength and Cycle Period in Solar-type Stars?”, [2019ApJ...880...6G](#) [ADS](#)
- Pipin, V. V., Pevtsov, A. A., Liu, Y., & Kosovichev, A. G., “Evolution of Magnetic Helicity in Solar Cycle 24”, [2019ApJ...877L..36P](#) [ADS](#)
- Kitiashvili, I. & Kosovichev, A. G., “Long-Term Prediction of Solar Activity Using Magnetogram Data and Ensemble Kalman Filter”, [2019AAS...23440101K](#) [ADS](#)
- Kosovichev, A. G. & Pipin, V., “Detection of Dynamo Waves in the Solar Convection Zone by Helioseismology”, [2019AAS...23430703K](#) [ADS](#)
- Stefan, J. & Kosovichev, A. G., “Time-Dependent Hydrodynamic Modeling of Solar Acoustic Waves”, [2019AAS...23430209S](#) [ADS](#)
- Stejko, A. M., Guerrero, G., & Kosovichev, A. G., “Modeling of Subsurface Shear with EULAG-MHD”, [2019AAS...23430208S](#) [ADS](#)
- Kitiashvili, I., Wray, A. A., Kosovichev, A. G., Sadykov, V. M., & Mansour, N. N., “3D Realistic Modeling of Chromospheric and Coronal Heating and Self-Organization”, [2019AAS...23410615K](#) [ADS](#)
- Kosovichev, A. & Sharykin, I., “Helioseismic Effects of Solar Flares in Cycle 24”, [2019shin.confE.204K](#) [ADS](#)
- Stefan, J. T. & Kosovichev, A. G., “Hydrodynamic Modeling of Impulsive Helioseismic Events”, [2019shin.confE..14S](#) [ADS](#)
- Sadykov, V. M., Kitiashvili, I. N., & Kosovichev, A. G., “Cluster analysis of spectroscopic line profiles in RMHD simulations and observations of the solar atmosphere”, [2019shin.confE..11S](#) [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Kitiashvili, I. N., & Frolov, A., “Statistical Properties of Soft X-Ray Emission of Solar Flares”, [2019ApJ...874...19S](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., Wray, A. A., & Sandstrom, T. A., “The Origin of Deep Acoustic Sources Associated with Solar Magnetic Structures”, [2019ApJ...872...34K](#) [ADS](#)
- Kosovichev, A. G. & Pipin, V. V., “Dynamo Wave Patterns inside the Sun Revealed by Torsional Oscillations”, [2019ApJ...871L..20K](#) [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., & Kerr, G. S., “Statistical Study of Chromospheric Evaporation in Impulsive Phase of Solar Flares”, [2019ApJ...871...2S](#) [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “Does Nonaxisymmetric Dynamo Operate in the Sun?”, [2018ApJ...867..145P](#) [ADS](#)
- Nita, G., Angryk, R., Aydin, B., et al., “Roadmap for Reliable Ensemble Forecasting of the Sun-Earth System”, [2018arXiv181008728N](#) [ADS](#)
- Kosovichev, A. G. & Pipin, V. V., “Dynamo Wave Patterns Inside the Sun Revealed by Torsional Oscillations”, [2018arXiv180910776K](#) [ADS](#)
- Kosovichev, A. G. & Rozelot, J. P., “Solar cycle variations of rotation and asphericity in the near-surface shear layer”, [2018JASTP.176...21K](#) [ADS](#)
- Sharykin, I. N. & Kosovichev, A. G., “Onset of Photospheric Impacts and Helioseismic Waves in X9.3 Solar Flare of 2017 September 6”, [2018ApJ...864...86S](#) [ADS](#)
- Stefan, J. T. & Kosovichev, A., “Modeling Impulsive Helioseismic Events”, [2018shin.confE.246S](#) [ADS](#)
- Kosovichev, A. G., “Helioseismic Observations of Torsional Oscillations Inside the Sun and Their Potential for Predicting Solar Cycles”, [2018shin.confE.152K](#) [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “Using Machine-Learning Methods and Expert Prediction Probabilities to Forecast Solar Flares”, [2018shin.confE.144S](#) [ADS](#)
- Kosovichev, A. & Rozelot, J.-P., “Cyclic Changes of the Sun Textquoterights Seismic Radius”, [2018ApJ...861...90K](#) [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “Testing the Standard Model of Solar Flares through a Statistical Study of Soft X-ray Emission Properties from GOES Observations”, [2018tess.conf40804S](#) [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “Machine-Learning Approach for Solar Flare Forecasts Based on Automatic Identification and Characterization of Magnetic Field Polarity Inversion Line”, [2018tess.conf32202S](#) [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Nita, G. M., Oria, V., & Wang, W., “Intelligent Database of Solar Events and Active Regions (IDSEAR)”, [2018tess.conf30713S](#) [ADS](#)
- Kosovichev, A. G., Sadykov, V. M., Sharykin, I., & Zhao, J., “Subsurface Flow Dynamics and Flaring Activity of AR 12673”, [2018tess.conf30605K](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “Effects of Distributed Magnetic Fields and Compact Magnetic Structures on Properties of Acoustic Waves Excitation on the Sun”, [2018tess.conf11504K](#) [ADS](#)
- Kitiashvili, I., Wray, A. A., Kosovichev, A. G., & Mansour, N. N., “Dynamics of Self-Formed Funnel Structure in 3D Realistic Simulations of a Quiet-Sun Region”, [2018tess.conf10629K](#) [ADS](#)
- Rozelot, J. P., Kosovichev, A. G., & Kilcik, A., “A brief history of the solar diameter measurements: a critical quality assessment of the existing data”, in J. P. Rozelot and E. S. Babayev (Eds.), Variability of the Sun and Sun-Like Stars: from Asteroseismology to Space Weather, 89–99 [2018vsss.book...89R](#) [ADS](#)
- Wary, A. A., Bensassi, K., Kitiashvili, I. N., Mansour, N. N., & Kosovichev, A. G., “Realistic Simulations of Stellar Radiative MHD”, in J. P. Rozelot and E. S. Babayev (Eds.), Variability of the Sun and Sun-Like Stars: from Asteroseismology to Space Weather, 39 [2018vsss.book...39W](#) [ADS](#)
- Kosovichev, A. G., Zhao, J., & Ilonidis, S., “Local Helioseismology of Emerging Active Regions: A Case Study”, in J. P. Rozelot and E. S. Babayev (Eds.), Variability of the Sun and Sun-Like Stars: from Asteroseismology to Space Weather, 15–38 [2018vsss.book...15K](#) [ADS](#)
- Rozelot, J. P., Kosovichev, A. G., & Kilcik, A., “How big is the Sun: Solar diameter changes over time”, [2018SunGe..13...63R](#) [ADS](#)
- Cherenkov, A. A., Bisikalo, D. V., & Kosovichev, A. G., “Influence of stellar radiation pressure on flow structure in the envelope of hot-Jupiter HD 209458b”, [2018MNRAS.475..605C](#) [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “On the Origin of the Double-cell Meridional Circulation in the Solar Convection Zone”, [2018ApJ...854...67P](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “3D Realistic Radiative Hydrodynamic Modeling of a Moderate-Mass Star: Effects of Rotation”, [2018AAS...23133404K](#) [ADS](#)
- Kosovichev, A., “Helioseismic Observations of Two Solar Cycles and Constraints on Dynamo Theory”, [2018AAS...23131505K](#) [ADS](#)
- Zimovets, I. V., Sharykin, I. N., Wang, R., Liu, Y. D., & Kosovichev, A. G., “Relationship between Hard X-Ray Footpoint Sources and Photospheric Electric Currents in Solar Flares: a Statistical Study”, [2017AGUFMSH41A2751Z](#) [ADS](#)
- Kitiashvili, I., Collins, N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Solar activity across the scales: from small-scale quiet-Sun dynamics to magnetic activity cycles”, [2017AGUFMSH13A2466K](#) [ADS](#)
- Kosovichev, A. G., Guerrero, G., & Pipin, V., “Helioseismology Observations of Solar Cycles and Dynamo Modeling”, [2017AGUFMSH12A..04K](#) [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “Relationships between Characteristics of the Line-of-sight Magnetic Field and Solar Flare Forecasts”, [2017ApJ...849...148S](#) [ADS](#)
- Arakcheev, A. S., Zhilkin, A. G., Kaigorodov, P. V., Bisikalo, D. V., & Kosovichev, A. G., “Reduction of mass loss by the hot Jupiter WASP-12b due to its magnetic field”, [2017ARep...61...932A](#) [ADS](#)
- Camacho, F. J., Guerrero, G., Smolarkiewicz, P. K., Kosovichev, A. G., & Mansour, N. N., “Exploring shallow sunspot formation by using Implicit Large-eddy simulations”, [2017IAUS..328..117C](#) [ADS](#)
- Guerrero, G., Smolarkiewicz, P. K., de Gouveia Dal Pino, E. M., et al., “Are tachoclines important for solar and stellar dynamos? What can we learn from global simulations”, [2017IAUS..328...61G](#) [ADS](#)

- Zaire, B., Guerrero, G., Kosovichev, A. G., Smolarkiewicz, P. K., & Landin, N. R., “*Magnetic field generation in PMS stars with and without radiative core*”, 2017IAUS..328...30Z [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., Zimovets, I. V., & Vargas Dominguez, S., “*Initiation and chromospheric effects of a M1.0 class solar flare from high-resolution multi-wavelength observations*”, 2017IAUS..327...103S [ADS](#)
- , “*Fine Structure and Dynamics of the Solar Atmosphere*”, 2017IAUS..327....V [ADS](#)
- Rozelot, J. P., Kosovichev, A. G., & Kilcik, A., “*A Look on the Solar Diameter Data Analysis over the Centuries*”, 2017simi.conf...70R [ADS](#)
- Kosovichev, A. G., Larson, T. P., Guerrero, G., & Pipin, V., “*Solar-Cycle Variations Observed by Helioseismology and Constraints on Solar Dynamo*”, 2017SPD...4840303K [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “*Characteristics of the Polarity Inversion Line and Solar Flare Forecasts*”, 2017SPD....4811601S [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “*Analysis of Chromospheric Evaporation in Solar Flares*”, 2017SPD....4810817S [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Realistic Modeling of Interaction of Quiet-Sun Magnetic Fields with the Chromosphere*”, 2017SPD....4810502K [ADS](#)
- Kosovichev, A. G., Sharykin, I. N., Sadykov, V. M., Zimovets, I. V., & Myshyakov, I. I., “*Relationship Between High-Energy X-ray Sources and Helioseismic Impact of X-Class Flare*”, 2017SPD....48.0203K [ADS](#)
- Sadykov, V. M., Nita, G. M., Oria, V., & Kosovichev, A. G., “*Interactive Multi-Instrument Database of Solar Flares (IMIDSF)*”, 2017SPD....48.0101S [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “*Realistic 3D radiative modeling of turbulent structure of moderate-mass stars and Sun*”, 2017shin.confE..60K [ADS](#)
- Kosovichev, A. G., Guerrero, G., & Pipin, V. V., “*Helioseismic Observations and Constraints on Solar and Stellar Dynamo Models*”, 2017shin.confE..56K [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Oria, V., & Nita, G. M., “*An Interactive Multi-instrument Database of Solar Flares*”, 2017ApJS..231....6S [ADS](#)
- Sharykin, I. N., Kosovichev, A. G., Sadykov, V. M., Zimovets, I. V., & Myshyakov, I. I., “*Investigation of Relationship between High-energy X-Ray Sources and Photospheric and Helioseismic Impacts of X1.8 Solar Flare of 2012 October 23*”, 2017ApJ...843...67S [ADS](#)
- Bagashvili, S. R., Shergelashvili, B. M., Japaridze, D. R., et al., “*Statistical properties of coronal hole rotation rates: Are they linked to the solar interior?*”, 2017A&A...603A.134B [ADS](#)
- Sharykin, I. N., Sadykov, V. M., Kosovichev, A. G., Vargas Dominguez, S., & Zimovets, I. V., “*Flare Energy Release in the Lower Solar Atmosphere near the Magnetic Field Polarity Inversion Line*”, 2017ApJ...840...84S [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., Sandstrom, T. A., & Wray, A. A., “*Magnetoacoustic Waves Excitation in Self-Organized Solar Magnetic Structures*”, 2016AGUFMSH21E2570K [ADS](#)
- Alvarez Laguna, A., Ozak, N. O., Maneva, Y. G., et al., “*Three-Fluid collisional and reactive magnetic reconnection with radiative effects in chromospheric conditions*”, 2016AGUFMSH21E2566A [ADS](#)
- Kosovichev, A. G., Sharykin, I. N., Sadykov, V. M., Vargas, S., & Zimovets, I. V., “*Triggers and Manifestations of Flare Energy Release in the Low Atmosphere*”, 2016AGUFMSH14B..05K [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*Angular momentum fluxes caused by Λ-effect and meridional circulation structure of the Sun*”, 2016AdSpR..58.1490P [ADS](#)
- Guerrero, G., Smolarkiewicz, P. K., de Gouveia Dal Pino, E. M., Kosovichev, A. G., & Mansour, N. N., “*Understanding Solar Torsional Oscillations from Global Dynamo Models*”, 2016ApJ...828L...3G [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., Zimovets, I. V., & Vargas Dominguez, S., “*Relationship Between Chromospheric Evaporation and Magnetic Field Topology in an M-Class Solar Flare*”, 2016ApJ...828...4S [ADS](#)
- Kosovichev, A. G., Sharykin, I. N., Sadykov, V. M., & Zimovets, I. V., “*Initiation and Energy Release Mechanisms of Non-eruptive Flares: Two Case Studies*”, 2016shin.confE.160K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*3D Realistic MHD Modeling of Solar Activity in Quiet-Sun Regions*”, 2016shin.confE.149K [ADS](#)
- Kosovichev, A. & Zhao, J., “*Links Between Global Solar Magnetic Fields and Subsurface Flows*”, 2016shin.confE.145K [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*Dependence of Stellar Magnetic Activity Cycles on Rotational Period in a Nonlinear Solar-type Dynamo*”, 2016ApJ...823..133P [ADS](#)
- Kosovichev, A. G. & Zhao, J., “*Solar-Cycle Evolution of Subsurface Flows and Magnetic Field*”, 2016SPD....47.0709K [ADS](#)
- Sharykin, I. N., Sadykov, V. M., Kosovichev, A. G., Vargas Dominguez, S., & Zimovets, I. V., “*Observational Investigation of Energy Release in the Lower Solar Atmosphere of a Solar Flare*”, 2016arXiv160405380S [ADS](#)
- Kosovichev, A. G. & Zhao, J., “*Reconstruction of Solar Subsurfaces by Local Helioseismology*”, in J.-P. Rozelot and C. Neiner (Eds.), Lecture Notes in Physics, Berlin Springer Verlag, Vol. 914, 25 2016LNP...914...25K [ADS](#)
- Cauzzi, G., Shchukina, N., Kosovichev, A., et al., “*Commission 12: Solar Radiation and Structure*”, 2016IAUTA..29...278C [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Dynamics of Turbulent Convection and Convective Overshoot in a Moderate-mass Star*”, 2016ApJ...821L..17K [ADS](#)
- Guerrero, G., Smolarkiewicz, P. K., de Gouveia Dal Pino, E. M., Kosovichev, A. G., & Mansour, N. N., “*On the Role of Tachoclines in Solar and Stellar Dynamos*”, 2016ApJ...819..104G [ADS](#)
- Rozelot, J.-P., Kosovichev, A., & Kilcik, A., “*Solar radius variations: new look on the wavelength dependence*”, 2016IAUS..320..342R [ADS](#)
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., & Vargas Dominguez, S., “*Spectroscopic UV observations of M1.0 class solar flare from IRIS satellite*”, 2016IAUS..320...64S [ADS](#)
- , “*Solar and Stellar Flares and their Effects on Planets*”, 2016IAUS..320....K [ADS](#)
- Guzik, J. A., Morgan, T. H., Nelson, N. J., et al., “*2-D and 3-D models of convective turbulence and oscillations in intermediate-mass main-sequence stars*”, 2016IAUFM..29B.540G [ADS](#)
- Alvarez Laguna, A., Lani, A., Mansour, N. N., Kosovichev, A. G., & Poedts, D. S., “*Partially Ionized Plasma Three-Fluid Modeling of Magnetic Reconnection in the Sun Chromosphere*”, 2015AGUFMSH43A2424A [ADS](#)
- Kosovichev, A. G. & Zhao, J., “*Relationship Between Subsurface Flows and Magnetic Field Evolution in Solar Cycle 24*”, 2015AGUFMSH33D..05K [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Solar Dynamo on Small and Global Scales*”, 2015AGUFMSH23A2432K [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*Effects of Large-scale Non-axisymmetric Perturbations in the Mean-field Solar Dynamo*”, 2015ApJ...813..134P [ADS](#)
- Rozelot, J. P., Kosovichev, A., & Kilcik, A., “*Solar Radius Variations: An Inquisitive Wavelength Dependence*”, 2015ApJ...812...91R [ADS](#)
- Simitev, R. D., Kosovichev, A. G., & Busse, F. H., “*Dynamo Effects Near the Transition from Solar to Anti-Solar Differential Rotation*”, 2015ApJ...810...80S [ADS](#)
- Kosovichev, A., Cauzzi, G., Martínez Pillet, V., et al., “*Division II: Commission 12: Solar Radiation and Structure*”, 2015IAUTB..28...109K [ADS](#)
- Rozelot, J.-P., Kosovichev, A., & Kilcik, A., “*Solar Radius Variations: a New Look on the Wavelength Dependence*”, 2015IAUGA..2297672R [ADS](#)
- Sharykin, I. & Kosovichev, A., “*Dynamics of Electric Currents, Magnetic Field Topology and Helioseismic Response of a Solar Flare*”, 2015IAUGA..2286139S [ADS](#)
- Kitiashvili, I. N., Mansour, N. N., Kosovichev, A., & Wray, A. A., “*Properties of Turbulent Dynamics and Oscillations of Main-Sequence Stars Deduced From Numerical Simulations*”, 2015IAUGA..2258520K [ADS](#)
- Kosovichev, A., Guerrero, G., Smolarkiewicz, P., de Gouveia Dal Pino, E., & Mansour, N. N., “*Effects of Tachocline in Solar-Stellar Dynamo Simulations*”, 2015IAUGA..2258507K [ADS](#)
- Pipin, V. & Kosovichev, A., “*Generation and Properties of Large-Scale Non-axisymmetric Magnetic Fields by Solar Dynamo*”, 2015IAUGA..2258424P [ADS](#)
- Kosovichev, A., “*Sunquakes and Two Types of Solar Flares*”, 2015IAUGA..2258219K [ADS](#)
- Vargas Domínguez, S., Sadykov, V., Kosovichev, A., et al., “*NST and IRIS multi-wavelength observations of an M1.0 class solar flare*”, 2015IAUGA..2257574V [ADS](#)
- Sharykin, I. & Kosovichev, A., “*Dynamics of electric currents, magnetic field topology and helioseismic response of a solar flare*”, 2015IAUGA..2256452S [ADS](#)
- Pipin, V. & Kosovichev, A., “*Waldmeier’s Rules in the Solar and Stellar Dynamos*”, 2015IAUGA..2255933P [ADS](#)
- Guzik, J. A., Morgan, T. H., Nelson, N. J., et al., “*2D and 3D Models of Convective Turbulence and Oscillations in Intermediate-Mass Main-Sequence Stars*”, 2015IAUGA..2255601G [ADS](#)
- Zhao, J., Chen, R., Hartlep, T., & Kosovichev, A. G., “*Detection of Fast-moving Waves Propagating Outward along Sunspotextquoteright Radial Direction in the Photosphere*”, 2015ApJ...809L..15Z [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Realistic Modeling of Local Dynamo Processes on the Sun*”, 2015ApJ...809..84K [ADS](#)
- Kosovichev, A. G., “*Sunquakes: Helioseismic response to solar flares*”, in Extraterrestrial Seismology, 306–322 2015exse.book..306K [ADS](#)

- Wray, A. A., Bensassi, K., Kitiashvili, I. N., Mansour, N. N., & Kosovichev, A. G., “*Simulations of Stellar Magnetohydrodynamics using the Radiative MHD Code ‘StellarBox’*”, 2015arXiv150707999W [ADS](#)
- Sharykin, I. N. & Kosovichev, A. G., “*Dynamics of Electric Currents, Magnetic Field Topology, and Helioseismic Response of a Solar Flare*”, 2015ApJ...808...72S [ADS](#)
- Sharykin, I. N., Kosovichev, A. G., & Zimovets, I. V., “*Energy Release and Initiation of a Sunquake in a C-class Flare*”, 2015ApJ...807..102S [ADS](#)
- Balona, L. A., Broomhall, A. M., Kosovichev, A., et al., “*Oscillations in stellar superflares*”, 2015MNRAS.450..956B [ADS](#)
- Sadykov, V. M., Vargas Dominguez, S., Kosovichev, A. G., et al., “*Properties of Chromospheric Evaporation and Plasma Dynamics of a Solar Flare from Iris*”, 2015ApJ...805..167S [ADS](#)
- Zhao, J., Chen, R., Hartlep, T., & Kosovichev, A., “*Detection of Fast-Moving Waves Propagating Outward from Sunspots in the Photosphere*”, 2015TESS...110504Z [ADS](#)
- Reiter, J., Rhodes, E. J. J., Kosovichev, A. G., et al., “*A Method for the Estimation of p-Mode Parameters from Averaged Solar Oscillation Power Spectra*”, 2015ApJ...803..92R [ADS](#)
- Kosovichev, A., “*Preface: Cosmic magnetic fields*”, 2015AdSpR..55..779K [ADS](#)
- Kosovichev, A. G., “*Analysis of High-Resolution Observations of Sunspot Oscillations and Waves*”, 2014AGUFMSH41C4164K [ADS](#)
- Sharykin, I. & Kosovichev, A. G., “*Flare Energy Release in the Low Solar Atmosphere: Fine Structuring, Electric Currents and Sunquakes.*”, 2014AGUFMSH41C4163S [ADS](#)
- Vargas Domínguez, S. & Kosovichev, A. G., “*Swirling motions, fast plasma flows and small-scale chromospheric eruptions in a sunspot light-bridge*”, 2014AGUFMSH41C4159V [ADS](#)
- Guerrero, G., Kosovichev, A. G., Smolarkiewicz, P. K., & de Gouveia Dal Pino, E. M., “*Large-scale flows and magnetic fields in solar-like stars from global simulation with and without tachocline*”, 2014AGUFMSH41B4150G [ADS](#)
- Kitiashvili, I., Mansour, N. N., Wray, A. A., Yoon, S., & Kosovichev, A. G., “*Realistic Modeling of Multi-Scale MHD Dynamics of the Solar Atmosphere*”, 2014AGUFMSH41B4134K [ADS](#)
- Alvarez Laguna, A., Lani, A., Poedts, S., Mansour, N. N., & Kosovichev, A. G., “*Three-Dimensional Magnetic Reconnection Under Low Chromospheric Conditions Using a Two-Fluid Weakly Ionized Reactive Plasma Model*”, 2014AGUFMSH23A4151A [ADS](#)
- Sadykov, V. M. & Kosovichev, A. G., “*Using MHD simulations to model H-alpha and UV spectral lines for interpretation of IRIS and NST data*”, 2014arXiv1412.0288S [ADS](#)
- Vargas Domínguez, S., Kosovichev, A., & Yurchyshyn, V., “*Multi-wavelength High-resolution Observations of a Small-scale Emerging Magnetic Flux Event and the Chromospheric and Coronal Response*”, 2014ApJ...794..140V [ADS](#)
- Varsik, J., Plymate, C., Goode, P., et al., “*Control and operation of the 1.6 m New Solar Telescope in Big Bear*”, 2014SPIE.9147E..5DV [ADS](#)
- Zhao, J., Kosovichev, A. G., & Bogart, R. S., “*Solar Meridional Flow in the Shallow Interior during the Rising Phase of Cycle 24*”, 2014ApJ...789L..7Z [ADS](#)
- Sharykin, I. N. & Kosovichev, A. G., “*Fine Structure of Flare Ribbons and Evolution of Electric Currents*”, 2014ApJ...788L..18S [ADS](#)
- Yurchyshyn, V. B., Abramenko, V., Kosovichev, A. G., & Goode, P. R., “*High Resolution Observations of Chromospheric Jets in Sunspot Umbra*”, 2014AA...22432301Y [ADS](#)
- Kosovichev, A. G. & Yurchyshyn, V. B., “*Photospheric and Chromospheric Dynamics of Sunspots Observed with New Solar Telescope*”, 2014AA...22421811K [ADS](#)
- Zhao, J., Kosovichev, A. G., & Bogart, R. S., “*Studying Shallow Meridional Flow by Time-Distance Helioseismology during the Rising Phase of Cycle 24*”, 2014AA...22421805Z [ADS](#)
- Vargas Domínguez, S. & Kosovichev, A. G., “*Transient Small-Scale Magnetic Flux Emergence and Atmospheric Response Observed with New Solar Telescope and SDO*”, 2014AA...22412345V [ADS](#)
- Sharykin, I. & Kosovichev, A. G., “*Sub-arcsecond Structure and Dynamics of Flare Ribbons Observed with New Solar Telescope*”, 2014AA...22412310S [ADS](#)
- Kosovichev, A. G., Sharykin, I., & Zimovets, I., “*Unusual Sunquake Events Challenge the Standard Model of Solar Flares*”, 2014AA...22410403K [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Multi-scale Properties of the Local Dynamo on the Sun*”, 2014AA...22410304K [ADS](#)
- Yurchyshyn, V., Abramenko, V., Kosovichev, A., & Goode, P., “*High Resolution Observations of Chromospheric Jets in Sunspot Umbra*”, 2014ApJ...787..58Y [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*Effects of Anisotropies in Turbulent Magnetic Diffusion in Mean-field Solar Dynamo Models*”, 2014ApJ...785...49P [ADS](#)
- Parchevsky, K. V., Zhao, J., Hartlep, T., & Kosovichev, A. G., “*Verification of the Helioseismology Travel-time Measurement Technique and the Inversion Procedure for Sound Speed Using Artificial Data*”, 2014ApJ...785...40P [ADS](#)
- Kosovichev, A. G., “*Sunquakes and starquakes*”, 2014IAUS..301..349K [ADS](#)
- Vargas Dominguez, S., Kosovichev, A. G., & Yurchyshyn, V., “*Emergence of a small-scale magnetic flux tube and the response of the solar atmosphere*”, 2014CEAB...38...25V [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Mechanism of local dynamo action on the Sun*”, 2013arXiv1312.0982K [ADS](#)
- Kosovichev, A., “*Astrophysical processes on the Sun*”, 2013GApFD.107..717K [ADS](#)
- Guerrero, G., Smolarkiewicz, P. K., Kosovichev, A. G., & Mansour, N. N., “*Differential Rotation in Solar-like Stars from Global Simulations*”, 2013ApJ...779..176G [ADS](#)
- Kosovichev, A. G., Pipin, V. V., & Zhao, J., “*Helioseismic Constraints and a Paradigm Shift in the Solar Dynamo*”, 2013ASP..479..395K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “*Turbulent Hydrodynamics and Oscillations of Moderate-Mass Stars*”, 2013ASP..479..377K [ADS](#)
- Didkovsky, L., Kosovichev, A., Judge, D., Wieman, S., & Woods, T., “*Variability of Solar Five-Minute Oscillations in the Corona as Observed by the Extreme Ultraviolet Spectrograph (ESP) on the Solar Dynamics Observatory/Extreme Ultraviolet Variability Experiment (SDO/EVE)*”, 2013SoPh..287..171D [ADS](#)
- Mansour, N. N., Kosovichev, A. G., Komm, R., Longcope, D., & Leibacher, J. W., “*Preface*”, 2013SoPh..287....1M [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*The Mean-field Solar Dynamo with a Double Cell Meridional Circulation Pattern*”, 2013ApJ...776..36P [ADS](#)
- Zhao, J., Bogart, R. S., Kosovichev, A. G., Duvall, T. L., J. & Hartlep, T., “*Detection of Equatorward Meridional Flow and Evidence of Double-cell Meridional Circulation inside the Sun*”, 2013ApJ...774L..29Z [ADS](#)
- Pipin, V. & Kosovichev, A. G., “*Effects of Double-Cell Meridional Circulation on the Solar Dynamo and Activity Cycles*”, 2013SPD....4440303P [ADS](#)
- Zhao, J., Bogart, R. S., Kosovichev, A. G., Duvall, T. L., & Hartlep, T., “*Solar Interior Meridional Flow from SDO/HMI*”, 2013SPD....4420402Z [ADS](#)
- Guerrero, G., Smolarkiewicz, P. K., Kosovichev, A., & Mansour, N., “*Solar differential rotation: hints to reproduce a near-surface shear layer in global simulations*”, 2013IAUS..294..417G [ADS](#)
- , “*Solar and Astrophysical Dynamos and Magnetic Activity*”, 2013IAUS..294....K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “*Ubiquitous Solar Eruptions Driven by Magnetized Vortex Tubes*”, 2013ApJ...770..37K [ADS](#)
- Kitiashvili, I., Couvidat, S., Mansour, N., Wray, A., & Kosovichev, A., “*Using realistic MHD simulations for modeling HMI observables*”, 2013enss.confE.127K [ADS](#)
- Mansour, N. N., Wray, A., Mehrotra, P., et al., “*Approach to Integrate Global-Sun Models of Magnetic Flux Emergence and Transport for Space Weather Studies*”, 2013enss.confE.125M [ADS](#)
- Kosovichev, A. & Zhao, J., “*Sunquake Observations from HMI: Time-Distance and Holography Analyses*”, 2013enss.confE.124K [ADS](#)
- Zhao, J., Bogart, R. S., Kosovichev, A. G., Duvall, T. L., J., & Hartlep, T., “*Recent Local Helioseismology Results from SDO/HMI*”, 2013enss.confE.118Z [ADS](#)
- Sturrock, P. A., Bertello, L., Fischbach, E., et al., “*An analysis of apparent r-mode oscillations in solar activity, the solar diameter, the solar neutrino flux, and nuclear decay rates, with implications concerning the Sun’s internal structure and rotation, and neutrino processes*”, 2013APh....42...62S [ADS](#)
- Hartlep, T., Zhao, J., Kosovichev, A. G., & Mansour, N. N., “*Solar Wavefield Simulation for Testing Prospects of Helioseismic Measurements of Deep Meridional Flows*”, 2013ApJ...762..132H [ADS](#)
- Kitiashvili, I., Abramenko, V., Goode, P. R., et al., “*Investigation of Small-Scale Turbulent MHD Phenomena Using Numerical Simulations and NST Observations*”, 2012IAUSS...6E.104K [ADS](#)
- Manchester, W. B., Fang, F., Burns, C., et al., “*Initiation of Coronal Mass Ejections: A Comparison of AR11158 with a Simulation of Flux Cancellation*”, 2012AGUFMSH53B..06M [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N., & Wray, A., “*3D MHD Simulations of Spontaneous Flow Ejections by Turbulent Convection into the Chromosphere*”, 2012AGUFMSH51A2192K [ADS](#)
- Kosovichev, A. G., “*Sunquakes and Two Types of Flares*”, 2012AGUFMSH43B2167K [ADS](#)

- Zhao, J., Bogart, R. S., Kosovichev, A. G., & Duvall, T. L., “*Detection of Equator-ward Meridional Flows in the Deep Solar Interior*”, 2012AGUFMSH13C2266Z [ADS](#)
- Hartlep, T., Kosovichev, A. G., & Zhao, J., “*Helioseismic measurements of large-scale flows and meridional circulation models using artificial data from numerical simulations*”, 2012AGUFMSH13C2265H [ADS](#)
- Parchevsky, K. & Kosovichev, A. G., “*Numerical Simulation of Thermal and Magnetic Effects of MHD Wave Propagation in Sunspot Models*”, 2012AGUFMSH13A2247P [ADS](#)
- Parchevsky, K. V., Zhao, J., Hartlep, T., & Kosovichev, A. G., “*Verification of the Travel Time Measurement Technique and the Helioseismic Inversion Procedure for Sound Speed Using Artificial Data*”, 2012arXiv1209.4877P [ADS](#)
- Abramenko, V. I., Yurchyshyn, V. B., Goode, P. R., Kitiashvili, I. N., & Kosovichev, A. G., “*Detection of Small-scale Granular Structures in the Quiet Sun with the New Solar Telescope*”, 2012ApJ...756L..27A [ADS](#)
- Hamerly, R. & Kosovichev, A. G., “*Dark Matter and Its Effects on Helioseismology*”, 2012ASPC..462..537H [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Self-organization of the Solar Turbulent Convection in Magnetic Field*”, 2012ASPC..462..382K [ADS](#)
- Kitiashvili, I. N., Guzik, J. A., Kosovichev, A. G., et al., “*Radiation Hydrodynamics Simulations of Turbulent Convection for Kepler Target Stars*”, 2012ASPC..462..378K [ADS](#)
- Ilonidis, S., Zhao, J., & Kosovichev, A. G., “*Helioseismic Detection of Emerging Magnetic Flux*”, 2012ASPC..462..283I [ADS](#)
- Zhao, J., Parchevsky, K. V., & Kosovichev, A. G., “*Interaction of Helioseismic Waves with Sunspots: Observations and Numerical MHD Simulations*”, 2012ASPC..462..277Z [ADS](#)
- Kosovichev, A. G., “*Local Helioseismology of Sunspots: Current Status and Perspectives*”, 2012SoPh..279..323K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “*Fine-scale Magnetic Structures and Flows in Sunspot Simulations*”, 2012ASPC..454..253K [ADS](#)
- Nagashima, K., Zhao, J., Kosovichev, A. G., & Sekii, T., “*Local-Helioseismology Study of Supergranulation in the Polar Region*”, 2012ASPC..454..19N [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., Lele, S. K., & Wray, A. A., “*Vortex tubes of turbulent solar convection*”, 2012PhyS...86a8403K [ADS](#)
- Kosovichev, A., “*Energy Release in Solar Flares: Catastrophic Magnetic Field Changes, Sunquakes and Coronal Eruptions*”, 2012shin.confE.101K [ADS](#)
- Kosovichev, A., Ilonidis, S., Zhao, J., & Kholikov, S., “*Diagnostics of Magnetic Flux Emergence and Evolution by Local Helioseismology*”, 2012shin.confE..48K [ADS](#)
- Kitiashvili, I. N., Abramenko, V. I., Goode, P. R., et al., “*Turbulent Kinetic Energy Spectra of Solar Convection from NST Observations and Realistic MHD Simulations*”, 2012arXiv1206.5300K [ADS](#)
- Kosovichev, A., Lundstedt, H., & Brandenburg, A., “*Special issue on current research in astrophysical magnetism*”, 2012PhyS...86a0201K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “*Dynamics of Magnetized Vortex Tubes in the Solar Chromosphere*”, 2012ApJ...751L..21K [ADS](#)
- Nagashima, K., Parchevsky, K. V., Zhao, J., et al., “*Effects of Spectral Line Formation Height in Time-Distance Helioseismology*”, 2012ASPC..456..57N [ADS](#)
- Liu, Y., Scherrer, P. H., Hoeksema, J. T., et al., “*A First Look at Magnetic Field Data Products from SDO/HMI*”, 2012ASPC..455..337L [ADS](#)
- Parchevsky, K. & Kosovichev, A. G., “*Magnetic and Thermal Effects of MHD Wave Propagation in Different Models of Sunspots*”, 2012AA...22020619P [ADS](#)
- Kitiashvili, I., Kosovichev, A., Mansour, N., & Wray, A., “*Convection-Chromosphere Coupling due to Vortex Tube Dynamic*”, 2012AA...22012405K [ADS](#)
- Zhao, J., Bogart, R. S., Kosovichev, A. G., & Duvall, T. L., J., “*Searching For Equator-ward Meridional Flows In The Solar Interior*”, 2012AA...22010905Z [ADS](#)
- Hartlep, T., Zhao, J., Kosovichev, A. G., & Mansour, N. N., “*Testing Helioseismic Measurements Of Subsurface Meridional And Large-scale Flows Using Artificial Data From Numerical Simulations*”, 2012AA...22010904H [ADS](#)
- Kosovichev, A. G., “*Physics of Sunquakes Events Observed with SDO*”, 2012AA...22010903K [ADS](#)
- Ilonidis, S., Zhao, J., Kosovichev, A., & Hartlep, T., “*Helioseismic Measurements of Emerging Magnetic Flux in the Solar Convection Zone*”, 2012AA...22010902I [ADS](#)
- Ilonidis, S., Zhao, J., & Kosovichev, A., “*Response to Comment on textquoted-blleft Detection of Emerging Sunspot Regions in the Solar Interior textquoted-brright*”, 2012Sci...336..296I [ADS](#)
- Kosovichev, A., Cauzzi, G., Pillet, V. M., et al., “*Commission 12: Solar Radiation and Structure*”, 2012IAUTA..28...81K [ADS](#)
- Martínez Pillet, V., Klimchuk, J. A., Melrose, D. B., et al., “*Division II: Sun and Heliosphere*”, 2012IAUTA..28...61M [ADS](#)
- Zhao, J., Nagashima, K., Bogart, R. S., Kosovichev, A. G., & Duvall, T. L., J., “*Systematic Center-to-limb Variation in Measured Helioseismic Travel Times and its Effect on Inferences of Solar Interior Meridional Flows*”, 2012ApJ...749L..5Z [ADS](#)
- Kosovichev, A. G., Kitiashvili, I. N., Mitra-Kraev, U., & Sekii, T., “*Links between photospheric and chromospheric oscillations*”, 2012decs.confE..97K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “*Effects of vortex tube dynamics in the chromosphere*”, 2012decs.confE..96K [ADS](#)
- Stenflo, J. O. & Kosovichev, A. G., “*Bipolar Magnetic Regions on the Sun: Global Analysis of the SOHO/MDI Data Set*”, 2012ApJ...745..129S [ADS](#)
- Zhao, J., Couvidat, S., Bogart, R. S., et al., “*Time-Distance Helioseismology Data-Analysis Pipeline for Helioseismic and Magnetic Imager On-board Solar Dynamics Observatory (SDO/HMI) and Its Initial Results*”, 2012SoPh..275..375Z [ADS](#)
- Couvidat, S., Zhao, J., Birch, A. C., et al., “*Implementation and Comparison of Acoustic Travel-Time Measurement Procedures for the Solar Dynamics Observatory/Helioseismic and Magnetic Imager Time - Distance Helioseismology Pipeline*”, 2012SoPh..275..357C [ADS](#)
- Scherrer, P. H., Schou, J., Bush, R. I., et al., “*The Helioseismic and Magnetic Imager (HMI) Investigation for the Solar Dynamics Observatory (SDO)*”, 2012SoPh..275..207S [ADS](#)
- Hartlep, T., Busse, F. H., Hurlburt, N. E., & Kosovichev, A. G., “*Magnetohydrodynamic simulations of flows around rotating and non-rotating axisymmetric magnetic flux concentrations*”, 2012MNRAS.419.2325H [ADS](#)
- Pipin, V. V., Kuzanyan, K. M., Zhang, H., & Kosovichev, A. G., “*Turbulent Cross-helicity in the Mean-field Solar Dynamo Problem*”, 2011ApJ...743..160P [ADS](#)
- Ilonidis, S., Zhao, J., & Kosovichev, A. G., “*Detection of Emerging Sunspot Regions in the Solar Interior by Helioseismology*”, 2011AGUFMSH54A..01I [ADS](#)
- Hartlep, T., Zhao, J., Kosovichev, A. G., et al., “*Testing Helioseismic Measurements of the Solar Meridional Flow with Numerical Simulations*”, 2011AGUFMSH52B..03H [ADS](#)
- Nagashima, K., Duvall, T., Zhao, J., et al., “*Measuring Acoustic Travel Times in Higher-Latitude Regions of the Sun using Hinode and SDO Data*”, 2011AGUFMSH51B2016N [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “*Vortex tubes of solar convection: formation, properties and dynamics*”, 2011AGUFMSH43A1927K [ADS](#)
- Pipin, V. & Kosovichev, A. G., “*The Waldmeier relations as due to nonlinear surface-shear shaped dynamo*”, 2011AGUFMSH43A1922P [ADS](#)
- Kosovichev, A., Desai, P., & Hayashi, K., “*Amazing M9-Flare: Sunquakes, White Light Emission and Magnetic Restructuring*”, 2011AGUFMSH33A2042K [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “*The Asymmetry of Sunspot Cycles and Waldmeier Relations as a Result of Nonlinear Surface-shear Shaped Dynamo*”, 2011ApJ...741...1P [ADS](#)
- Kosovichev, A. G. & Zhao, J., “*Subphotospheric flows and evolution of active regions*”, 2011sdmi.confE.102K [ADS](#)
- Kosovichev, A., Desai, P., & Hayashi, K., “*Strong photospheric impact of M-class flare: helioseismic response, white light emission and magnetic restructuring*”, 2011sdmi.confE.101K [ADS](#)
- Didkovsky, L., Judge, D., Kosovichev, A., Wieman, S., & Woods, T., “*Variability of five-minute solar oscillations in the corona as observed by the Extreme Ultraviolet Spectrograph (ESP) on the Solar Dynamics Observatory Extreme Ultraviolet Variability Experiment (SDO/EVE)*”, 2011sdmi.confE..98D [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Propagation and transformation of MHD waves in sunspots*”, 2011sdmi.confE..46P [ADS](#)
- Nagashima, K., Zhao, J., Duvall, Thomas, J., et al., “*Multi-wavelength time-distance helioseismology analyses*”, 2011sdmi.confE..37N [ADS](#)
- Schlottmann, R. B. & Kosovichev, A. G., “*Helioseismic Frechet Traveltime Kernels in Spherical Coordinates*”, 2011sdmi.confE..29S [ADS](#)
- Schlottmann, R. B. & Kosovichev, A. G., “*A Method for the Calculation of Acoustic Green's Functions for Use in Computing Frechet Traveltime Sensitivity Kernels*”, 2011sdmi.confE..27S [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “*Excitation of Solar Acoustic Waves and Vortex Tube Dynamics*”, 2011sdmi.confE..26K [ADS](#)

- Wray, A. A., Mansour, N. N., Rogachevskii, I., et al., “Effects of Turbulence Models on Self-Organization Processes in Solar Convection”, [2011sdmi.confE...5W](#) [ADS](#)
- Didkovsky, L., Judge, D., Kosovichev, A. G., Wieman, S., & Woods, T., “Observations of Five-minute Solar Oscillations in the Corona Using the Extreme Ultraviolet Spectrographometer (ESP) On Board the Solar Dynamics Observatory Extreme Ultraviolet Variability Experiment (SDO/EVE)”, [2011ApJ...738L..7D](#) [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “Mean-field Solar Dynamo Models with a Strong Meridional Flow at the Bottom of the Convection Zone”, [2011ApJ...738L..104P](#) [ADS](#)
- Birch, A. C., Parchevsky, K. V., Braun, D. C., & Kosovichev, A. G., ““Hare and Hounds” Tests of Helioseismic Holography”, [2011SoPh..272...11B](#) [ADS](#)
- Ilonidis, S., Zhao, J., & Kosovichev, A., “Detection of Emerging Sunspot Regions in the Solar Interior”, [2011Sci...333..993I](#) [ADS](#)
- , “Advances in Plasma Astrophysics (IAU S274)”, [2011IAUS..274....B](#) [ADS](#)
- Parchevsky, K. V., Zhao, J., Kosovichev, A. G., & Rempel, M., “Comparison of numerical simulations and observations of helioseismic MHD waves in sunspots”, [2011IAUS..273..422P](#) [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “Investigation of a sunspot complex by time-distance helioseismology”, [2011IAUS..273..320K](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “Numerical simulations of magnetic structures”, [2011IAUS..273..315K](#) [ADS](#)
- Kosovichev, A. G., “Investigations of solar plasma in the interior and corona from Solar Dynamics Observatory”, [2011IAUS..274..287K](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “Realistic MHD simulations of magnetic self-organization in solar plasma”, [2011IAUS..274..120K](#) [ADS](#)
- Kosovichev, A. G., “Helioseismic Response to the X2.2 Solar Flare of 2011 February 15”, [2011ApJ...734L..15K](#) [ADS](#)
- Zhao, J., Bogart, R. S., Kosovichev, A. G., & Nagashima, K., “Solar Subsurface Dynamics from the First Year of SDO/HMI Time-Distance Helioseismology Analysis”, [2011SPD...42.2131Z](#) [ADS](#)
- Kosovichev, A. G. & Zhao, J., “Subsurface Structure and Dynamics of Active Regions Observed with SDO/HMI”, [2011SPD...42.2110K](#) [ADS](#)
- Kosovichev, A. G., “Flare-excited Waves in the Solar Interior and Atmosphere”, [2011SPD...42.2107K](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “High-resolution 3D Radiative MHD Simulations Of Turbulent Convection And Spectro-polarimetric Properties”, [2011SPD...42.1708K](#) [ADS](#)
- Parchevsky, K. & Kosovichev, A., “MHD Wave Transformation and Radiation Transfer Simulations in Sunspots”, [2011SPD...42.1707P](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Lele, S. K., Mansour, N. N., & Wray, A. A., “A Mechanism of the Solar Acoustic Emission”, [2011SPD...42.1701K](#) [ADS](#)
- Hartlep, T., Roth, M., Doerr, H., Zhao, J., & Kosovichev, A. G., “Helioseismic Measurements Of Meridional Flows In Artificial Data From 3d Numerical Simulations Of Wave Propagation In The Whole Sun”, [2011SPD...42.1611H](#) [ADS](#)
- Pipin, V. & Kosovichev, A., “The Waldmeier Effect and Asymmetry of Solar Magnetic Cycles in a Surface-Shear Dynamo Model”, [2011SPD...42.0202P](#) [ADS](#)
- Gopasyuk, O. S. & Kosovichev, A. G., “Analysis of SOHO/MDI and TRACE Observations of Sunspot Torsional Oscillation in AR10421”, [2011ApJ...729...95G](#) [ADS](#)
- Kosovichev, A. G., “First Sunquake of Solar Cycle 24 Observed by Solar Dynamics Observatory”, [2011arXiv1102.3954K](#) [ADS](#)
- Rogachevskii, I., Kleorin, N., Kitiashvili, I. N., et al., “LES of turbulent convection in solar-type stars and formation of large-scale magnetic structures”, [2011arXiv1102.1206R](#) [ADS](#)
- Zhao, J., Kosovichev, A. G., & Ilonidis, S., “Toward Waveform Helioseismography: Observing Interactions of Helioseismic Waves with a Sunspot”, [2011SoPh..268..429Z](#) [ADS](#)
- Hartlep, T., Kosovichev, A. G., Zhao, J., & Mansour, N. N., “Signatures of Emerging Subsurface Structures in Acoustic Power Maps of the Sun”, [2011SoPh..268..321H](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Numerical MHD Simulations of Solar Magnetoconvection and Oscillations in Inclined Magnetic Field Regions”, [2011SoPh..268..283K](#) [ADS](#)
- Damiani, C., Rozelot, J. P., Lefebvre, S., Kilcik, A., & Kosovichev, A. G., “A brief history of the solar oblateness. A review”, [2011JASTP..73..241D](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Excitation of Acoustic Waves by Vortices in the Quiet Sun”, [2011ApJ...727L..50K](#) [ADS](#)
- Pipin, V. V. & Kosovichev, A. G., “The Subsurface-shear-shaped Solar  $\alpha\Omega$  Dynamo”, [2011ApJ...727L..45P](#) [ADS](#)
- Kitiashvili, I. N. & Kosovichev, A. G., “Modeling and Prediction of Solar Cycles Using Data Assimilation Methods”, in J.-P. Rozelot and C. Neiner (Eds.), Lecture Notes in Physics, Berlin Springer Verlag, Vol. 832, 121 [2011LNP...832..121K](#) [ADS](#)
- Kosovichev, A. G., “Advances in Global and Local Helioseismology: An Introductory Review”, in J.-P. Rozelot and C. Neiner (Eds.), Lecture Notes in Physics, Berlin Springer Verlag, Vol. 832, 3 [2011LNP...832...3K](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Subsurface structure of the Evershed flows in sunspots”, [2011JPhCS.271a2076K](#) [ADS](#)
- Zhao, J., Couvidat, S., Bogart, R. S., et al., “HMI time-distance pipeline: An overview and data products”, [2011JPhCS.271a2063Z](#) [ADS](#)
- Kosovichev, A. G., Basu, S., Bogart, R., et al., “Local helioseismology of sunspot regions: Comparison of ring-diagram and time-distance results”, [2011JPhCS.271a2005K](#) [ADS](#)
- Nagashima, K., Zhao, J., Kosovichev, A. G., & Sekii, T., “Detection of Supergranulation Alignment in Polar Regions of the Sun by Helioseismology”, [2011ApJ...726L..17N](#) [ADS](#)
- Yokoi, N., Kitiashvili, I. N., & Kosovichev, A. G., “Cross-helicity turbulence model: Application to MHD phenomena from solar convection zone to heliosphere”, [2010AGUFMSH31A1793Y](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Realistic MHD Simulations of Formation of Sunspot-like Structures and Comparison with Observations”, [2010AGUFMSH31A1782K](#) [ADS](#)
- Vafai, A. D., Close, S., Kosovichev, A. G., & Stern, R. A., “Initial Analysis of the Solar Dynamics Observatory Radiation Environment”, [2010AGUFMSH23C1875V](#) [ADS](#)
- Zhao, J., Bogart, R. S., Couvidat, S. P., et al., “Initial Results from SDO/HMI Time-Distance Helioseismology Data Analysis Pipeline”, [2010AGUFMSH14A..08Z](#) [ADS](#)
- Kosovichev, A. G., Duvall, T. L., & Zhao, J., “Investigation of Formation and Subsurface Dynamics of Active Regions by Local Helioseismology from SDO”, [2010AGUFMSH11A1604K](#) [ADS](#)
- Parchevsky, K., Zhao, J., Kosovichev, A. G., & Rempel, M., “Interaction of MHD Waves with Sunspots”, [2010AGUFM.S32A..07P](#) [ADS](#)
- Hartlep, T., Zhao, J., Kosovichev, A. G., & Mansour, N. N., “Validating Helioseismic Imaging Techniques using 3D Global-Sun Simulations of Helioseismic Wave Propagation”, [2010AGUFM.S32A..05H](#) [ADS](#)
- Nagashima, K., Zhao, J., Kosovichev, A. G., & Sekii, T., “Helioseismology Study of Subsurface Dynamics in the Polar Regions of the Sun”, [2010AGUFM.S32A..03N](#) [ADS](#)
- Parchevsky, K., Kosovichev, A., Khomenko, E., Olshevsky, V., & Collados, M., “Numerical simulation of propagation of the MHD waves in sunspots”, [2010HiA...15..354P](#) [ADS](#)
- Kosovichev, A. G., “The future of helioseismology”, [2010HiA...15..352K](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “Realistic MHD numerical simulations of solar convection and oscillations in inclined magnetic field regions”, [2010HiA...15..348K](#) [ADS](#)
- Metcalfe, T. S., Monteiro, M. J. P. F. G., Thompson, M. J., et al., “A Precise Asteroseismic Age and Radius for the Evolved Sun-like Star KIC 11026764”, [2010ApJ...723..1583M](#) [ADS](#)
- Balarac, G., Kosovichev, A. G., Brugière, O., Wray, A. A., & Mansour, N. N., “Modeling of the subgrid-scale term of the filtered magnetic field transport equation”, [2010arXiv1010.5759B](#) [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “Mechanism of Spontaneous Formation of Stable Magnetic Structures on the Sun”, [2010ApJ...719..307K](#) [ADS](#)
- Hartlep, T., Busse, F. H., Hulbert, N. E., & Kosovichev, A. G., “Diverging and Converging Flows around Sunspot Structures in Rotating and Non-Rotating Axisymmetric MHD Simulations”, [2010arXiv1006.4156H](#) [ADS](#)
- Kitiashvili, I. N., Bellot Rubio, L. R., Kosovichev, A. G., et al., “Explanation of the Sea-serpent Magnetic Structure of Sunspot Penumbrae”, [2010ApJ...716L..181K](#) [ADS](#)
- Melrose, D. B., Martínez Pillet, V., Webb, D. F., et al., “Division II: Sun and Heliosphere”, [2010IAUTB..27..146M](#) [ADS](#)
- Zhao, J., Couvidat, S., Bogart, R., et al., “Initial Time-distance Helioseismology Results from SDO/HMI. II”, [2010AAS...21640235Z](#) [ADS](#)
- Zhao, J., Couvidat, S., Bogart, R., et al., “Initial Time-Distance Helioseismology Results from SDO/HMI. I”, [2010AAS...21640234Z](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Mansour, N. N., & Wray, A. A., “Observations of Emerging Active Regions and Sunspot Formation from SDO/HMI”, [2010AAS...21640233K](#) [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Saio, H., et al., “Radiative Hydrodynamic Simulations of Turbulent Convection and Oscillations from Solar-Type to A-Type Stars”, [2010AAS...21640012K](#) [ADS](#)
- Parchevsky, K., Birch, A., Kosovichev, A., et al., “Ray-Path and Born Kernels for SDO Time-Distance Helioseismology Pipeline”, [2010AAS...21640009P](#) [ADS](#)

- Ilionidis, E., Zhao, J., & Kosovichev, A., "Time-Distance Helioseismology Analysis of a Numerically Simulated Sunspot", 2010AAS...21640007I [ADS](#)
- Birch, A., Braun, D., Crouch, A., Parchevsky, K., & Kosovichev, A., "Tests of Helioseismic Holography Sound-Speed Inversions Using Synthetic Data", 2010AAS...21640006B [ADS](#)
- Hartlep, T., Busse, F. H., Kosovichev, A. G., & Hurlbert, N. E., "Diverging And Converging Flows Around Sunspot Structures In Axisymmetric Mhd Simulations", 2010AAS...21640005H [ADS](#)
- Kosovichev, A. G., "Limits on Energy, Momentum and Excitation Mechanism of Sunquakes", 2010AAS...21640004K [ADS](#)
- Nagashima, K., Zhao, J., Kosovichev, A., & Sekii, T., "Supergranulation in the Polar Regions Observed by Hinode/SOT", 2010AAS...21640002N [ADS](#)
- Zhao, J., Parchevsky, K. V., Hartlep, T., & Kosovichev, A. G., "Validating Time-Distance Subsurface Sound-Speed Structure Inversions", 2010AAS...21631905Z [ADS](#)
- Kosovichev, A. G. & Duvall, T. L. J., "Investigation of Subsurface Connections in Complexes of Activity by Local Helioseismology", 2010AAS...21631903K [ADS](#)
- Kitiashvili, I., Bellot Rubio, L. R., Kosovichev, A. G., et al., "Sea-Serpent Magnetic Structure of Sunspot Penumbrae: Observations and MHD Simulations", 2010AAS...21631706K [ADS](#)
- Kosovichev, A. G. & SDO Team, "Overview of First-Result SDO Posters", 2010AAS...21630806K [ADS](#)
- Parchevsky, K., Zhao, J., & Kosovichev, A., "Numerical Simulation of Propagation and Transformation of the MHD Waves in Sunspots", 2010AAS...21621106P [ADS](#)
- Chaplin, W. J., Appourchaux, T., Elsworth, Y., et al., "The Asteroseismic Potential of Kepler: First Results for Solar-Type Stars", 2010ApJ...713L.169C [ADS](#)
- , "Solar and Stellar Variability: Impact on Earth and Planets", 2010IAUS..264....K [ADS](#)
- Parchevsky, K., Kosovichev, A., Khomenko, E., Olshevsky, V., & Collados, M., "Numerical Simulation of Excitation and Propagation of Helioseismic MHD Waves in Magnetostatic Models of Sunspots", 2010arXiv1002.1117P [ADS](#)
- Kitiashvili, I. N. & Kosovichev, A. G., "Prediction of solar activity cycles by assimilating sunspot data into a dynamo model", 2010IAUS..264..202K [ADS](#)
- Appourchaux, T., Belkacem, K., Broomhall, A. M., et al., "The quest for the solar g modes", 2010A&ARv..18..197A [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Note on Travel Time Shifts Due to Amplitude Modulation in Time-Distance Helioseismology Measurements", 2010ApJ...708.1475N [ADS](#)
- Zhao, J., Kosovichev, A. G., & Sekii, T., "High-Resolution Helioseismic Imaging of Subsurface Structures and Flows of a Solar Active Region Observed by Hinode", 2010ApJ...708..304Z [ADS](#)
- Švanda, M., Kosovichev, A. G., Klvaňa, M., Sobotka, M., & Duvall, T. L. J., "Transport of Supergranules and their Vertical Coherence", 2009ASPC..416..547S [ADS](#)
- Kitiashvili, I. & Kosovichev, A., "Implementation of Data Assimilation Methods for Dynamo Models to Predict Solar Activity", 2009ASPC..416..511K [ADS](#)
- Hartlep, T., Kosovichev, A. G., Zhao, J., & Mansour, N. N., "Signatures of Emerging Subsurface Structures in Acoustic Power Maps", 2009ASPC..416..147H [ADS](#)
- Jacoutot, L., Kosovichev, A., Wray, A., & Mansour, N., "Realistic MHD Simulations of Solar Convection and Oscillations in Magnetic Regions: Mode Excitation and Effects of Acoustic Halos", 2009ASPC..416..67J [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., "Excitation, Propagation and Conversion of Helioseismic MHD Waves in Strong Field Regions", 2009ASPC..416..61P [ADS](#)
- Kosovichev, A., Zhao, J., Sekii, T., Nagashima, K., & Mitra-Kraev, U., "New Results of High-Resolution Helioseismology from Hinode", 2009ASPC..416..41K [ADS](#)
- Zhao, J., Hartlep, T., Kosovichev, A. G., & Mansour, N. N., "Time-Distance Helioseismic Imaging of a Numerically Simulated Solar Tachocline", 2009ASPC..416..25Z [ADS](#)
- Georgobiani, D., Zhao, J., Kosovichev, A., et al., "Comparing the Hinode and SOHO/MDI Data to the Simulated Large Scale Solar Convection", 2009ASPC..415..421G [ADS](#)
- Nagashima, K., Sekii, T., Kosovichev, A. G., Zhao, J., & Tarbell, T. D., "Travel-Time Analyses of an Emerging-Flux Region", 2009ASPC..415..417N [ADS](#)
- Zhao, J., Kosovichev, A. G., & Sekii, T., "Subsurface Structures and Flow Fields of an Active Region Observed by Hinode", 2009ASPC..415..411Z [ADS](#)
- Kosovichev, A., Zhao, J., Sekii, T., Nagashima, K., & Mitra-Kraev, U., "Recent Progress and Future Directions for Helioseismology", 2009ASPC..415..399K [ADS](#)
- Kitiashvili, I., Jacoutot, L., & Kosovichev, A., "Realistic Numerical Modeling of Solar Magnetoconvection and Oscillations", 2009ASPC..415..83K [ADS](#)
- Hartlep, T., Hurlbert, N. E., Busse, F. H., & Kosovichev, A. G., "Modeling of sunspot structures using simulations of axisymmetric MHD convection", 2009AGUFMSH23B1538H [ADS](#)
- Parchevsky, K., Kosovichev, A. G., Khomenko, E., & Collados, M., "NUMERICAL SIMULATION OF PROPAGATION AND SCATTERING OF THE MHD WAVES IN SUNSPOTS", 2009AGUFMSH23B1535P [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., "The Origin of High-Speed Evershed Flows in Sunspots", 2009AGUFMSH23B1534K [ADS](#)
- Schlottmann, R. & Kosovichev, A. G., "A Functional Analytic Approach to Fréchet Traveltime Kernels", 2009AGUFMSH13A1509S [ADS](#)
- Zhao, J., Couvidat, S. P., Parchevsky, K., et al., "Time-Distance Helioseismology Data Analysis Pipeline for SDO/HMI", 2009AGUFMSH13A1507Z [ADS](#)
- Zhao, J., Hartlep, T., Kosovichev, A. G., & Mansour, N. N., "Imaging the Solar Tachocline by Time-Distance Helioseismology", 2009ApJ...702.1150Z [ADS](#)
- Kitiashvili, I. N., Jacoutot, L., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., "Numerical Modeling of Solar Convection and Oscillations in Magnetic Regions", 2009AIPC.1170..569K [ADS](#)
- Kosovichev, A. G., "Solar Oscillations", 2009AIPC.1170..547K [ADS](#)
- Kitiashvili, I. N., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., "Traveling Waves of Magnetoconvection and the Origin of the Evershed Effect in Sunspots", 2009ApJ...700L.178K [ADS](#)
- Strassmeier, K. G., Kosovichev, A. G., & Beckman, J. E.: 2009, *Cosmic Magnetic Fields (IAU S259)* 2009cmf..book.....S [ADS](#), "Cosmic Magnetic Fields (IAU S259)", 2009IAUS..259.....S [ADS](#)
- Kitiashvili, I., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., "Realistic 3D MHD Simulations of the Evershed Effect", 2009SPD....40.0906K [ADS](#)
- Kosovichev, A. G., Hartlep, T., Zhao, J., & Mansour, N. N., "Acoustic Power and Travel Time Signatures of Emerging Subsurface Structures", 2009SPD...40.0709K [ADS](#)
- Zhao, J., Kosovichev, A. G., & Sekii, T., "Subsurface Flows in Solar Active Regions and Polar Areas from Hinode Observations", 2009SPD....40.0706Z [ADS](#)
- Parchevsky, K. & Kosovichev, A. G., "Scattering of MHD Waves by Sunspots", 2009SPD....40.0704P [ADS](#)
- Kosovichev, A. G., Zhao, J., Parchevsky, K. V., & Hartlep, T., "Testing the Sunspot Subsurface ("Coffee-Cup") Structure", 2009SPD....40.0703K [ADS](#)
- Zhao, J. & Kosovichev, A. G., "Observing Interactions of Helioseismic Waves with Sunspots", 2009SPD....40.0302Z [ADS](#)
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., "Simulated Large Scale Solar Convection Versus Observations: A Multiwavelength Approach", 2009SPD....40.0301G [ADS](#)
- Švanda, M., Klvaňa, M., Sobotka, M., Kosovichev, A. G., & Duvall, T. L., "Large-scale horizontal flows in the solar photosphere IV. On the vertical structure of large-scale horizontal flows", 2009NewA...14..429S [ADS](#)
- Kosovichev, A. G., "Photospheric and Subphotospheric Dynamics of Emerging Magnetic Flux", 2009SSRv..144..175K [ADS](#)
- Kitiashvili, I. N. & Kosovichev, A. G., "Prediction of solar magnetic cycles by a data assimilation method", 2009IAUS..259..235K [ADS](#)
- Kosovichev, A. G., "Magnetic fields and dynamics of the Sun's interior", 2009IAUS..259..147K [ADS](#)
- Haberreiter, M., Kosovichev, A. G., & Schmutz, W., "Solution to the discrepancy between the seismic and photospheric solar radius", 2009EGUGA..11.3961H [ADS](#)
- Nagashima, K., Sekii, T., Kosovichev, A. G., Zhao, J., & Tarbell, T. D., "Helioseismic Signature of Chromospheric Downflows in Acoustic Travel-Time Measurements From Hinode", 2009ApJ...694L.115N [ADS](#)
- Appourchaux, T., Liewer, P., Watt, M., et al., "POLAR investigation of the Sun-POLARIS", 2009ExA...23.1079A [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., "Numerical Simulation of Excitation and Propagation of Helioseismic MHD Waves: Effects of Inclined Magnetic Field", 2009ApJ...694..573P [ADS](#)
- Khomenko, E., Kosovichev, A., Collados, M., Parchevsky, K., & Olshevsky, V., "Theoretical Modeling of Propagation of Magnetoacoustic Waves in Magnetic Regions Below Sunspots", 2009ApJ...694..411K [ADS](#)
- Kitiashvili, I. N. & Kosovichev, A. G., "Nonlinear dynamical modeling of solar cycles using dynamo formulation with turbulent magnetic helicity", 2009GApFD.103..53K [ADS](#)
- Kosovichev, A. G., "Photospheric and Subphotospheric Dynamics of Emerging Magnetic Flux", in M. J. Thompson, A. Balogh, J. L. Culhane, Å. Nordlund, S. K. Solanki, and J. P. Zahn (Eds.), *The Origin and Dynamics of Solar Magnetism*, Vol. 32, 175 2009odsm.book..175K [ADS](#)
- Kosovichev, A. G., Arlt, R., Bonanno, A., et al., "Solar Dynamo and Magnetic Self-Organization", 2009astro2010S.160K [ADS](#)

- Hartlep, T., Kosovichev, A. G., Zhao, J., & Mansour, N. N., “*Signatures of emerging subsurface structures in the sun*”, 2009arXiv0901.4585H [ADS](#)
- Martínez Pillet, V., Kosovichev, A., Mariska, J. T., et al., “*Commission 12: Solar Radiation and Structure*”, 2009IAUTA..27..104M [ADS](#)
- Melrose, D. B., Martínez Pillet, V., Webb, D. F., et al., “*Division II: Sun and Heliosphere*”, 2009IAUTA..27..73M [ADS](#)
- Hartlep, T., Zhao, J., Mansour, N. N., & Kosovichev, A. G., “*Validating Time-Distance Far-Side Imaging of Solar Active Regions through Numerical Simulations*”, 2008ApJ...689.1373H [ADS](#)
- Kosovichev, A. G. & Stenflo, J. O., “*Tilt of Emerging Bipolar Magnetic Regions on the Sun*”, 2008ApJ...688L.115K [ADS](#)
- Zhao, J., Kosovichev, A. G., & Sekii, T., “*Helioseismic Measurement of Subsurface Flows at Solar High Latitude*”, 2008AGUFMSH44A..03Z [ADS](#)
- Kosovichev, A. G., Zhao, J., Sekii, T., Nagashima, K., & Mitra-Kraev, U., “*High-Resolution Helioseismology from Hinode*”, 2008AGUFMSH41B1627K [ADS](#)
- Kitiashvili, I. N. & Kosovichev, A. G., “*Using Data Assimilation Methods for Modeling and Predicting Solar Activity Cycles*”, 2008AGUFMSH13A1506K [ADS](#)
- Kitiashvili, I. & Kosovichev, A. G., “*Application of Data Assimilation Method for Predicting Solar Cycles*”, 2008ApJ...688L..49K [ADS](#)
- Jacoutot, L., Kosovichev, A. G., Wray, A., & Mansour, N. N., “*Realistic Numerical Simulations of Solar Convection and Oscillations in Magnetic Regions*”, 2008ApJ...684L..51J [ADS](#)
- Jacoutot, L., Kosovichev, A. G., Wray, A. A., & Mansour, N. N., “*Numerical Simulation of Excitation of Solar Oscillation Modes for Different Turbulent Models*”, 2008ApJ...682.1386J [ADS](#)
- Švanda, M., Kosovichev, A. G., & Zhao, J., “*Effects of Solar Active Regions on Meridional Flows*”, 2008ApJ...680L.161S [ADS](#)
- Jouve, L., Brun, A. S., Arlt, R., et al., “*A solar mean field dynamo benchmark*”, 2008A&A...483..949J [ADS](#)
- Jacoutot, L., Kosovichev, A. G., Wray, A., & Mansour, N. N., “*Solar convection and oscillations in magnetic regions*”, 2008arXiv0805.3741J [ADS](#)
- Parchevsky, K. V., Zhao, J., & Kosovichev, A. G., “*Influence of Nonuniform Distribution of Acoustic Wavefield Strength on Time-Distance Helioseismology Measurements*”, 2008ApJ...678.1498P [ADS](#)
- Duvall, T. L., Zhao, J., Couvidat, S., et al., “*Development of Time-Distance Helioseismology Data Analysis Pipeline for SDO/HMI*”, 2008AGUSMSP51B..15D [ADS](#)
- Kitiashvili, I. & Kosovichev, A., “*Application of Data Assimilation Methods to Non-Linear Dynamo Models of Solar Cycle*”, 2008AGUSMSP23A..02K [ADS](#)
- Kosovichev, A. & Sekii, T., “*First Detection of MHD Oscillations Excited by Solar Flare in Sunspot Umbra*”, 2008AGUSMSP21B..07K [ADS](#)
- Jacoutot, L., Kosovichev, A., Mansour, N., & Wray, A., “*Study of the magnetoconvection and oscillations in the upper convection zone by means of realistic numerical simulations*”, 2008AGUSMSP21A..06J [ADS](#)
- Zhao, J., Hartlep, T., Kosovichev, A. G., & Mansour, N. N., “*Time-Distance Helioseismic Image of Solar Tachocline Area*”, 2008AGUSMSP21A..02Z [ADS](#)
- Kosovichev, A., Zhao, J., Sekii, T., & Nagashima, K., “*Initial Helioseismology Results from Hinode*”, 2008AGUSMSP21A..01K [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Modeling of Helioseismic MHD Waves in Presence of Inclined Magnetic Field*”, 2008AGUFMSH54A..02P [ADS](#)
- Mitra-Kraev, U., Kosovichev, A. G., & Sekii, T., “*Properties of high-degree oscillation modes of the Sun observed with Hinode/SOT*”, 2008A&A...481L..1M [ADS](#)
- Haberreiter, M., Schmutz, W., & Kosovichev, A. G., “*Solving the Discrepancy between the Seismic and Photospheric Solar Radius*”, 2008ApJ...675L..53H [ADS](#)
- Liewer, P. C., Ayon, J., Alexander, D., et al., “*Solar Polar Imager: Observing Solar Activity from a New Perspective*”, in M. S. Allen (Ed.), NASA Space Science Vision Missions, Vol. 224, 1 2008nssv.book....1L [ADS](#)
- Kosovichev, A. G., “*Probing solar and stellar interior dynamics and dynamo*”, 2008AdSpR..41..830K [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Modeling Non-Uniform Distribution of Acoustic Sources and Wave Leakage in Sunspots*”, 2008ASPC..383..289P [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Local Helioseismology and Magnetic Flux Emergence*”, 2008ASPC..383..59K [ADS](#)
- Kosovichev, A. G. & Sekii, T., “*Initial Observations of Sunspot Oscillations Excited by Solar Flare*”, 2007ApJ...670L.147K [ADS](#)
- Zhao, J., Hartlep, T., Kosovichev, A. G., & Mansour, N. N., “*Imaging Solar Farside and Tachocline Using SOHO/MDI Data and Numerical Simulations*”, 2007AGUFMSH32A0791Z [ADS](#)
- Hartlep, T., Zhao, J., Mansour, N. N., & Kosovichev, A. G., “*Validation of Far-side Imaging of Solar Active Regions through Numerical Simulations*”, 2007AGUFMSH32A0790H [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Numerical Simulations of MHD Waves in the Sun*”, 2007AGUFMSH31A0220P [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Helioseismic Observations of Active Regions Below the Solar Surface from SOHO/MDI*”, 2007AGUFMSH23A1168K [ADS](#)
- Jacoutot, L., Kosovichev, A. G., Mansour, N. N., & Wray, A., “*Realistic Numerical Simulations of Solar Magneto-Convection and Oscillations*”, 2007AGUFMSH23A1167J [ADS](#)
- Sekii, T., Kosovichev, A. G., Zhao, J., et al., “*Initial Helioseismic Observations by Hinode/SOT*”, 2007PASJ...59S.637S [ADS](#)
- Nagashima, K., Sekii, T., Kosovichev, A. G., et al., “*Observations of Sunspot Oscillations in G Band and CaII H Line with Solar Optical Telescope on Hinode*”, 2007PASJ...59S.631N [ADS](#)
- Švanda, M., Kosovichev, A. G., & Zhao, J., “*Speed of Meridional Flows and Magnetic Flux Transport on the Sun*”, 2007ApJ...670L..69S [ADS](#)
- Kosovichev, A. G., “*The Cause of Photospheric and Helioseismic Responses to Solar Flares: High-Energy Electrons or Protons?*”, 2007ApJ...670L..65K [ADS](#)
- Kosovichev, A. G., “*Observations of Helioseismic Response to Flare energy-release Events*”, 2007ASPC..369..325K [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Effect of Suppressed Excitation on the Amplitude Distribution of 5 Minute Oscillations in Sunspots*”, 2007ApJ...666L..53P [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Three-dimensional Numerical Simulations of the Acoustic Wave Field in the Upper Convection Zone of the Sun*”, 2007ApJ...666..547P [ADS](#)
- Kosovichev, A. G. & Strassmeier, K. G., “*Joint Discussion 8 Solar and stellar activity cycles*”, 2007HiA....14..271K [ADS](#)
- Green, C. A. & Kosovichev, A. G., “*Magnetic Effect on Wavelike Properties of Solar Supergranulation*”, 2007ApJ...665L..75G [ADS](#)
- Kosovichev, A. G., “*Helioseismic inferences on subsurface solar convection*”, 2007IAUS..239..113K [ADS](#)
- Kosovichev, A. G., “*The Cause Of Sunquakes: Electrons Or Protons?*”, 2007AAS...210.9326K [ADS](#)
- Kosovichev, A. G. & Stenflo, J. O., “*Investigation of Magnetic Properties of Emerging Active Regions*”, 2007AAS...210.9214K [ADS](#)
- Zhao, J., Hartlep, T., Kosovichev, A. G., & Mansour, N. N., “*Imaging Far-Side Solar Active Regions by Use of Time-Distance Helioseismology and Its Validation*”, 2007AAS...210.4606Z [ADS](#)
- Green, C. & Kosovichev, A. G., “*Effects of Magnetism and Turbulent Viscosity on the Wave-like Behaviour of Supergranulation*”, 2007AAS...210.4605G [ADS](#)
- Parchevsky, K. & Kosovichev, A. G., “*Modeling of solar wave damping*”, 2007AAS...210.4604P [ADS](#)
- Jacoutot, L., Kosovichev, A. G., Mansour, N. N., & Wray, A., “*Study Of Excitation Mechanism Of Solar Oscillation Modes Using Realistic Numerical Simulations*”, 2007AAS...210.4603J [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Investigation of Emerging Active Regions by Time-Distance Helioseismology*”, 2007AAS...210.4602K [ADS](#)
- Parchevsky, K. & Kosovichev, A. G., “*Modeling Of Magnetic Effects In Local Helioseismology*”, 2007AAS...210.2209P [ADS](#)
- Hartlep, T., Mansour, N. N., & Kosovichev, A. G., “*Numerical Simulations of Solar Acoustic Waves in the Whole Sun*”, 2007AAS...210.2204H [ADS](#)
- Zhao, J., Georgobiani, D., Kosovichev, A. G., et al., “*Validating Time-Distance Helioseismology by Use of Realistic Simulations of Solar Convection*”, 2007AAS...210.2203Z [ADS](#)
- Nigam, R., Kosovichev, A. G., & Scherrer, P. H., “*Analytical Models for Cross-Correlation Signal in Time-Distance Helioseismology*”, 2007ApJ...659.1736N [ADS](#)
- Zhao, J., Georgobiani, D., Kosovichev, A. G., et al., “*Validation of Time-Distance Helioseismology by Use of Realistic Simulations of Solar Convection*”, 2007ApJ...659..848Z [ADS](#)
- Lefebvre, S., Kosovichev, A. G., & Rozelot, J. P., “*Helioseismic Test of Nonhomologous Solar Radius Changes with the 11 Year Activity Cycle*”, 2007ApJ...658L.135L [ADS](#)
- Švanda, M., Zhao, J., & Kosovichev, A. G., “*Comparison of Large-Scale Flows on the Sun Measured by Time-Distance Helioseismology and Local Correlation Tracking*”, 2007SoPh..241..27S [ADS](#)
- Bogdan, T. J., Martínez Pillet, V., Asplund, M., et al., “*Commission 12: Solar Radiation & Structure*”, 2007IAUTA..26..89B [ADS](#)
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., “*Local Helioseismology and Correlation Tracking Analysis of Surface Structures in Realistic Simulations of Solar Convection*”, 2007ApJ...657.1157G [ADS](#)
- Kosovichev, A. G. & HMI Science Team, “*Helioseismology program for Solar Dynamics Observatory*”, 2007AN...328..339K [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Active Region Dynamics*”, in D. N. Baker, B. Klecker, S. J. Schwartz, R. Schwenn, and R. von Steiger (Eds.), Solar Dynamics and Its Effects on the Heliosphere and Earth. Series: Space Sciences Series of ISSI, Vol. 22, 1–12 2007sdeh.book....1K [ADS](#)

- Lefebvre, S., Rozelot, J. P., & Kosovichev, A. G., “*The change of solar shape in time and depth. Some consequences for space climate*”, 2007AdSpR..40.1000L [ADS](#)
- Kosovichev, A. G., “*Direct Observations of Acoustic Waves Excited by Solar Flares and their Propagation in Sunspot Regions*”, 2006ASPC..354..154K [ADS](#)
- Kosovichev, A., “*Anisotropy of Helioseismic Waves Excited by Solar Flares*”, 2006AGUFMSH23A0335K [ADS](#)
- Kosovichev, A. G., “*Properties of Flares-Generated Seismic Waves on the Sun*”, 2006SoPh..238....1K [ADS](#)
- Kosovichev, A. G., “*Sunquake sources and wave propagation*”, 2006ESASP.624E..134K [ADS](#)
- Parchevsky, K. & Kosovichev, A., “*Suppression of amplitude of 5-min oscillations in sunspots due to the lack of acoustic sources*”, 2006ESASP.624E..39P [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., “*The DynaMICS perspective*”, 2006ESASP.624E..24T [ADS](#)
- Elsworth, Y. P., Baudin, F., Chaplin, W., et al., “*The internal structure of the Sun inferred from g modes and low-frequency p modes*”, 2006ESASP.624E..22E [ADS](#)
- Green, C. A., Kosovichev, A. G., & Miesch, M. S., “*Effect of the subsurface shear layer on solar supergranulation*”, 2006ESASP.624E..13G [ADS](#)
- Lefebvre, S., Kosovichev, A. G., Nghiem, P., Turck-Chièze, S., & Rozelot, J. P., “*Cyclic variability of the seismic solar radius from SOHO/MDI and related physics*”, 2006ESASP.624E..9L [ADS](#)
- Kosovichev, A. G., “*Local helioseismology techniques and results*”, 2006IAUD..17E..12K [ADS](#)
- Rozelot, J. P., Lefebvre, S., Kosovichev, A., & Pireaux, S., “*Solar dynamics, asphericities and gravitational moments: present state of the art*”, 2006IAUD..17E..10R [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., “*The EUV Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Science Plan and Instrument Overview*”, 2006ESASP.617E..165W [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., “*Scientific Objectives of the Novel Formation Flying Mission Aspis*”, 2006ESASP.617E..164L [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., “*The Dynamics Project*”, 2006ESASP.617E..162T [ADS](#)
- Kulinová, A., Dzifčáková, E., Kosovichev, A. G., & Duvall, T. L., “*Analysis of a Relation between Subphotospheric Plasma Flows and Photospheric Current Kernels*”, 2006ESASP.617E..69K [ADS](#)
- Lefebvre, S., Kosovichev, A. G., & Rozelot, J. P., “*Helioseismic Measurements of Solar Radius Changes from SOHO/MDI*”, 2006ESASP.617E..43L [ADS](#)
- Appourchaux, T., Andersen, B., Baudin, F., et al., “*Recent Progresses on g-Mode Search*”, 2006ESASP.617E..2A [ADS](#)
- Lefebvre, S., Kosovichev, A. G., & Rozelot, J. P., “*Helioseismic measurements of solar radius changes from SOHO/MDI*”, 2006sf2a.conf..551L [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Active Region Dynamics*”, 2006SSRv..124....1K [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Modeling of Suppression of Acoustic Oscillation Power in Sunspots*”, 2006SPD....37..3204P [ADS](#)
- Kosovichev, A. G., “*Helioseismic and Photospheric Effects of Solar Flares*”, 2006SPD....37..0825K [ADS](#)
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., “*Time-Distance and Correlation Tracking Analyses of Convective Structures using Realistic Large-Scale Simulations of Solar Convection*”, 2006SPD....37..0509G [ADS](#)
- Zhao, J. & Kosovichev, A. G., “*Measuring Surface Magnetism Effects in Time-Distance Helioseismology*”, 2006SPD....37..0507Z [ADS](#)
- Green, C. A., Kosovichev, A. G., & Miesch, M. S., “*Investigating Mechanisms of Wave-Like Behaviour of Supergranulation*”, 2006SPD....37..0503G [ADS](#)
- Zhao, J. & Kosovichev, A. G., “*Surface Magnetism Effects in Time-Distance Helioseismology*”, 2006ApJ...643..1317Z [ADS](#)
- Green, C. A. & Kosovichev, A. G., “*Traveling Convective Modes in the Sun’s Subsurface Shear Layer*”, 2006ApJ...641L..77G [ADS](#)
- Couvidat, S., Birch, A. C., & Kosovichev, A. G., “*Three-dimensional Inversion of Sound Speed below a Sunspot in the Born Approximation*”, 2006ApJ...640..516C [ADS](#)
- Kosovichev, A. G., “*Probing solar and stellar interior dynamics and dynamo*”, 2006cosp...36..3458K [ADS](#)
- Kosovichev, A. G., “*Subsurface flows of solar active regions*”, 2006cosp...36..1489K [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*Helioseismic observations of magnetic flux emergence and flare effects*”, 2006IAUS..233..365K [ADS](#)
- Couvidat, S., Birch, A. C., Rajaguru, S. P., & Kosovichev, A. G., “*Comparison of subsurface sound-speed structures of three active regions*”, 2006IAUS..233..75C [ADS](#)
- Kosovichev, A. G., “*Subsurface characteristics of sunspots*”, 2006AdSpR..38..876K [ADS](#)
- Kosovichev, A. G., “*Probing plasma properties and dynamics inside the Sun*”, 2006AdSpR..37..1455K [ADS](#)
- Parchevsky, K. V. & Kosovichev, A. G., “*Numerical Simulations of Solar Acoustic Field*”, 2005AGUFMSH41A1118P [ADS](#)
- Georgobiani, D., Zhao, J., Benson, D., et al., “*Time-distance analysis of realistic simulations of solar convection*”, 2005AGUFMSH41A1117G [ADS](#)
- Kosovichev, A., “*Variability of the solar interior and irradiance*”, 2005AGUFMSH33C..03K [ADS](#)
- Kosovichev, A., “*New Observations of Flare-Generated Sunquakes*”, 2005AGUFMSH11A0244K [ADS](#)
- Lefebvre, S. & Kosovichev, A. G., “*Changes in the Subsurface Stratification of the Sun with the 11-Year Activity Cycle*”, 2005ApJ...633L..149L [ADS](#)
- Alexander, D., Sandman, A., Liewer, P., et al., “*Solar Polar Imager: Observing Solar Activity from a New Perspective*”, 2005ESASP.592..663A [ADS](#)
- Wachter, R. & Kosovichev, A. G., “*Properties of the Solar Acoustic Source Inferred from Nonadiabatic Oscillation Spectra*”, 2005ApJ...627..550W [ADS](#)
- Couvidat, S., Gizon, L., Birch, A. C., Larsen, R. M., & Kosovichev, A. G., “*Time-Distance Helioseismology: Inversion of Noisy Correlated Data*”, 2005ApJS..158..217C [ADS](#)
- Stepanov, A. V., Benevolenskaya, E. E., & Kosovichev, A. G.: 2005, *Multi-Wavelength Investigations of Solar Activity (IAU S223)* 2005misa.book.....S [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., “*A Search for the Relationship Between Subphotospheric Dynamics of Active Regions and Flaring Activity*”, 2005AGUSMSP51C..04K [ADS](#)
- Wachter, R., Schou, J., Kosovichev, A. G., & Rajaguru, P., “*Systematic errors in Dopplergrams of active regions*”, 2005AGUSMSP13A..07W [ADS](#)
- Zhao, J. & Kosovichev, A. G., “*The Effects of Inclined Magnetic Field over Time-Distance Measurements*”, 2005AGUSMSP13A..02Z [ADS](#)
- Green, C. & Kosovichev, A. G., “*Solar Supergranulation as Propagating Waves*”, 2005AGUSMSP11C..03G [ADS](#)
- Wray, A., Mansour, N. N., & Kosovichev, A., “*Large-Scale Solar Photosphere Simulations*”, 2005AGUSMSP11C..01W [ADS](#)
- Nigam, R., Rajaguru, P., & Kosovichev, A. G., “*Effect of phase speed filters on time-distance correlations of acoustic waves on the Sun*”, 2005AGUSMSP11B..02N [ADS](#)
- Toutain, T. & Kosovichev, A. G., “*Study of the Solar Cycle Dependence of Low-Degree p-Modes with Michelson Doppler Imager and VIRGO*”, 2005ApJ...622..1314T [ADS](#)
- Kosovichev, A. G., “*Sun’s global property measurements: helioseismic probing of solar variability*”, 2005MmSAI..76..743K [ADS](#)
- Cliver, E. W., Thompson, B. J., Lawrence, G. R., et al., “*The Solar Energetic Particle Event of 16 August 2001: 400 MeV Protons Following an Eruption at W180°*”, 2005ICRC....1..121C [ADS](#)
- Kosovichev, A., “*Helioseismology for SolarB and Joint Investigations with SDO/HMI Project*”, 2004ASPC..325..75K [ADS](#)
- Kosovichev, A. G., Duvall, T. L., & Zhao, J., “*Diagnostics of Subphotospheric Sources of Solar Variability*”, 2004AGUFMSH13A1144K [ADS](#)
- Zhao, J. & Kosovichev, A. G., “*Large-Scale Flow Fields Beneath Major Solar Active Regions*”, 2004AGUFMSH13A1143Z [ADS](#)
- Zhao, J. & Kosovichev, A. G., “*Probing Solar Dynamics in the Upper Convection Zone by Time-Distance Helioseismology*”, 2004ESASP.559..672Z [ADS](#)
- Wachter, R., Haberreiter, M., & Kosovichev, A. G., “*Oscillation Spectra of Line Depth, Intensity and Velocity from Radiative Transfer Calculations*”, 2004ESASP.559..668W [ADS](#)
- Georgobiani, D., Stein, R. F., Nordlund, Å., Kosovichev, A. G., & Mansour, N. N., “*High Degree Solar Oscillations in 3d Numerical Simulations*”, 2004ESASP.559..267G [ADS](#)
- Mansour, N. N., Kosovichev, A. G., Georgobiani, D., Wray, A., & Miesch, M., “*Turbulence Convection and Oscillations in the Sun*”, 2004ESASP.559..164M [ADS](#)
- Reiter, J., Rhodes, E. J. J., Kosovichev, A. G., & Schou, J., “*The Current Status of Analyzing High-Degree Modes*”, 2004ESASP.559..61R [ADS](#)
- Wachter, R. & Kosovichev, A. G., “*Properties of the Acoustic Source Inferred from Nonadiabatic Oscillation Spectra*”, 2004ESASP.559..55W [ADS](#)
- Turck-Chièze, S., García, R. A., Couvidat, S., et al., “*Erratum: “Looking for Gravity-Mode Multiplets with the GOLF Experiment aboard SOHO” (<A href=“/abs/2004ApJ...604..455T”>ApJ, 604, 455 [2004]</A>)”, 2004ApJ...608..610T [ADS](#)*
- Birch, A. C., Kosovichev, A. G., & Duvall, T. L., J., “*Sensitivity of Acoustic Wave Travel Times to Sound-Speed Perturbations in the Solar Interior*”, 2004ApJ...608..580B [ADS](#)
- Zhao, J., Kosovichev, A. G., & Duvall, Thomas L., J., “*On the Relationship between the Rotational Velocity and the Field Strength of Solar Magnetic Elements*”, 2004ApJ...607L..135Z [ADS](#)
- Berrilli, F., Del Moro, D., Consolini, G., et al., “*Structure Properties of Supergranulation and Granulation*”, 2004SoPh..221..33B [ADS](#)

- Del Moro, D., Berrilli, F., Duvall, T. L., J., & Kosovichev, A. G., "Dynamics and Structure of Supergranulation", [2004SoPh..221...23D ADS](#)

Couvidat, S., Birch, A. C., Kosovichev, A. G., & Zhao, J., "Three-dimensional Inversion of Time-Distance Helioseismology Data: Ray-Path and Fresnel-Zone Approximations", [2004ApJ...607..554C ADS](#)

Kosovichev, A. G. & Duvall, T. L., J., "Subphotospheric Dynamics During the Period of Massive Solar Flares", [2004AA...204.4703K ADS](#)

Kosovichev, A. G., "Probing Plasma Structures and Dynamics Inside the Sun", [2004AIPC..703..209K ADS](#)

Turck-Chi  ze, S., Garc  a, R. A., Couvidat, S., et al., "Looking for Gravity-Mode Multiplets with the GOLF Experiment aboard SOHO", [2004ApJ...604..455T ADS](#)

Zhao, J. & Kosovichev, A. G., "Torsional Oscillation, Meridional Flows, and Vorticity Inferred in the Upper Convection Zone of the Sun by Time-Distance Helioseismology", [2004ApJ...603..776Z ADS](#)

Kosovichev, A. G., "Probing Plasma Properties and Dynamics Inside the Sun", [2004cosp...35.1908K ADS](#)

Kosovichev, A. G., "The Sub-surface Characteristics of Sunspots", [2004cosp...35.1907K ADS](#)

Kosovichev, A. G., "Subphotospheric Structure of Sunspots and Active Regions", [2004IAUS..223..171K ADS](#)

, "Multi-wavelength investigations of solar activity : proceedings of the 223th symposium of the International Astronomical Union held in Saint Petersburg, Russia, June 14-19, 2004", [2004IAUS..223....S ADS](#)

Kosovichev, A., "The Sun's Surface and Subsurface. Investigating Shape and Irradiance", [2004EOSTr..85...32K ADS](#)

Couvidat, S., Turck-Chi  ze, S., & Kosovichev, A. G., "Solar Seismic Models and the Neutrino Predictions", [2003ApJ...599.1434C ADS](#)

Zhao, J. & Kosovichev, A. G., "Solar Subsurface Synoptic Flow Maps by Time-Distance Helioseismology", [2003AGUFMSH42B0537Z ADS](#)

Couvidat, S., Birch, A. C., Kosovichev, A. G., & Zhao, J., "Time-Distance Helioseismology: How The Inversion Results Depend On The Approximation Used", [2003AGUFMSH42B0534C ADS](#)

Kosovichev, A. G. & Duvall, T. L., "Evolution of Active Regions in the Solar Interior", [2003AGUFMSH22A0186K ADS](#)

Birch, A. & Kosovichev, A., "Sensitivity of Time-Distance Measurements to Local Changes in Sound Speed and Source Properties", [2003AGUFMSH21B0163B ADS](#)

Meunier, N. & Kosovichev, A., "Fast photospheric flows and magnetic fields in a flaring active region", [2003A&A...412..541M ADS](#)

Kosovichev, A. G., "What helioseismology teaches us about the Sun", [2003ESASP..535..795K ADS](#)

Kulinov  , A., Dzifc  k  ov  , E., Duvall, T. L., J., & Kosovichev, A. G., "Analysis of relationship between flaring activity and subphotospheric flows in NOAA 9393", [2003ESASP..535..125K ADS](#)

Berrilli, F., del Moro, D., Giordano, S., Consolini, G., & Kosovichev, A., "Characterization of supergranular features via topological measures", [2003ESASP..535..47B ADS](#)

Zhao, J. & Kosovichev, A. G., "Helioseismic Observation of the Structure and Dynamics of a Rotating Sunspot Beneath the Solar Surface", [2003ApJ...591..446Z ADS](#)

Kosovichev, A. G., "Searching for Deep Changes of the Solar Structure", [2003SPD....34.2611K ADS](#)

Zhao, J. & Kosovichev, A. G., "Synoptic Maps of Mass Flows Beneath the Solar Surface by Time-Distance Helioseismology", [2003SPD....34.2609Z ADS](#)

Couvidat, S., Birch, A. C., Zhao, J., & Kosovichev, A. G., "Inversions of artificial time-distance data using mainly Born approximation kernels and the MCD algorithm", [2003SPD....34.0809C ADS](#)

Birch, A. C. & Kosovichev, A. G., "Travel-Time Sensitivities for Time-Distance Helioseismology", [2003SPD....34.0807B ADS](#)

Hindman, B. W., Zhao, J., Haber, D. A., Kosovichev, A. G., & Toomre, J., "Comparison of Solar Subsurface Weather Obtained with Time-Distance Tomography and Ring Analysis", [2003SPD....34.0806H ADS](#)

Wachter, R., Schou, J., Kosovichev, A. G., & Scherrer, P. H., "Optimal Masks for Solar g-Mode Detection", [2003ApJ...588.1199W ADS](#)

Kosovichev, A. G. & Duvall, Thomas L., J., "Imaging of the solar interior: possibilities and limitations", [2003SPIE.4853..327K ADS](#)

Zhao, J. & Kosovichev, A. G., "On the inference of supergranular flows by time-distance helioseismology", [2003ESASP..517..417Z ADS](#)

Sekii, T., Shibahashi, H., & Kosovichev, A. G., "Autocorrelation analysis of MDI high-frequency data", [2003ESASP..517..385S ADS](#)

Reiter, J., Kosovichev, A. G., Rhodes, E. J., J., & Schou, J., "Accurate measurements of SOI/MDI high-degree frequencies and frequency splittings", [2003ESASP..517..369R ADS](#)

Dzifc  k  ov  , E., Kulinov  , A., & Kosovichev, A. G., "A search for the relationship between flaring activity and subphotospheric flows", [2003ESASP..517..263D ADS](#)

Kosovichev, A., "Telechronohelioseismology", in M. J. Thompson and J. Christensen-Dalsgaard (Eds.), Stellar Astrophysical Fluid Dynamics, 279-296 [2003safd.book..279K ADS](#)

Kosovichev, A. G., "Helioseismic tomography", in B. N. Dwivedi and F. B. E. N. Parker (Eds.), Dynamic Sun, 78-102 [2003dysu.book...78K ADS](#)

Del Moro, D., Berrilli, F., Bonet, J. A., et al., "Granule and Supergranule properties derived from solar timeseries", [2003MmSAI..74..584D ADS](#)

Zharkova, V. V. & Kosovichev, A. G., "Is Ni I 676.8 nm line affected by electron beams in flaring atmospheres?", [2002ESASP..506.1031Z ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., "Solar cycle in the photosphere and corona", [2002ESASP..506..831B ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., "Evolution of Large-scale Coronal Structure with the Solar Cycle from EUV Data", [2002ASPC..277..419B ADS](#)

Zhao, J. & Kosovichev, A. G., "Inferring Subphotospheric Supergranular Flows by Time-Distance Helioseismology", [2002AGUFMSH52A0460Z ADS](#)

Kosovichev, A. G., Duvall, T. L., Birch, A. C., et al., "Acoustic Tomography of the Sun's Interior with SDO: Possibilities and Limitations", [2002AGUFMSH21C..06K ADS](#)

Meunier, N. & Kosovichev, A., "Fast photospheric flows in a flaring active region", [2002ESASP..505..505M ADS](#)

Kosovichev, A. G., Duvall, T. L., J., & Zhao, J., "Helioseismic observations of subphotospheric dynamics of sunspots and developing active regions", [2002ESASP..505..79K ADS](#)

Kosovichev, A. G., "Subsurface structure of sunspots", [2002AN....323..186K ADS](#)

Turck-Chi  ze, S., Garc  a, R. A., Couvidat, S., et al., "Global low frequency acoustic modes after half a solar cycle aboard SOHO: an improved view of the nuclear core", [2002ESASP..508..593T ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., Scherrer, P. H., Lemen, J. R., & Slater, G. L., "Large-scale coronal structures in EUV and soft X-rays in solar cycle 23", [2002ESASP..508..367B ADS](#)

Zharkova, V. V. & Kosovichev, A. G., "Fast magnetic field variations associated with solar flares", [2002ESASP..508..159Z ADS](#)

Kosovichev, A. G., "Observations of solar-cycle effects by local-area helioseismology", [2002ESASP..508..131K ADS](#)

Wachter, R., Schou, J., Kosovichev, A., & Scherrer, P. H., "Optimal masks for g-mode detection in MDI velocity data", [2002ESASP..508..115W ADS](#)

Toutain, T. & Kosovichev, A. G., "The solar cycle dependence of low-degree p-mode parameters", [2002ESASP..508..103T ADS](#)

Reiter, J., Rhodes, E. J., J., Kosovichev, A. G., Schou, J., & Scherrer, P. H., "A new method for measuring frequencies and splittings of high-degree modes", [2002ESASP..508..91R ADS](#)

Reiter, J., Rhodes, E. J., J., Kosovichev, A. G., Schou, J., & Scherrer, P. H., "Effect of line asymmetry on determination of high-degree mode frequencies", [2002ESASP..508..87R ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., Lemen, J. R., Scherrer, P. H., & Slater, G. L., "Large-Scale Solar Coronal Structures in Soft X-Rays and Their Relationship to the Magnetic Flux", [2002ApJ...571L.181B ADS](#)

Kosovichev, A. & Duvall, T. J., "Helioseismic observations of developing active regions in the solar convection zone", [2002AA...200.8903K ADS](#)

Duvall, T. L., J., Beck, J. G., Gizon, L., & Kosovichev, A. G., "Advances in Time-Distance Helioseismology", [2002AA...200.7902D ADS](#)

Zhao, J. & Kosovichev, A., "Study of a Rotating Sunspot and Statistics of Kinetic Helicity Near Sunspots' Surface By Local Helioseismology", [2002AA...200.0413Z ADS](#)

Wachter, R., Schou, J., Kosovichev, A., Scherrer, P. H., & Phoebeus Team, "Optimal masks for g-mode detection in MDI velocity data", [2002AA...200.0412W ADS](#)

Zharkova, V. V. & Kosovichev, A. G., "A new insight into the energy release and transport in solar flares", [2002ESASP..477..35Z ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., "Solar Coronal Activity and Evolution of the Magnetic Field", [2002stma.conf..27B ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., Scherrer, P. H., Lemen, J. R., & Slater, G. L., "Coronal Patterns of Activity from Yohkoh and SOHO/EIT Data", [2002mwoc.conf..329B ADS](#)

Kosovichev, A. G., Duvall, T. L., Birch, A. C., et al., "Local-area helioseismology as a diagnostic tool for solar variability", [2002AdSpR..29.1899K ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., "Active longitudes and coronal structures during the rising phase of the solar cycle", [2002AdSpR..29..389B ADS](#)

Kosovichev, A. G., Bush, R. I., Duvall, T. L., & Scherrer, P. H., "The Largest Active Region of the Solar Cycle", [2001AGUFMSH11C0730K ADS](#)

Benevolenskaya, E. E., Kosovichev, A. G., Lemen, J. R., Scherrer, P. H., & Slater, G. L., "Solar Coronal Structures in Extreme Ultraviolet and Soft X-rays and Their Relation to Magnetic Flux", [2001AGUFMSH11C0720B ADS](#)

- Birch, A. C., Duvall, T. L., & Kosovichev, A. G., “*Probing Deep Structure of the Sun by Time-Distance Helioseismology*”, 2001AGUFMSH11B0710B [ADS](#)
- Price, G. H., Birch, A. C., Kosovichev, A. G., & Schlottmann, R. B., “*Accuracy of Born and Ray Approximations in Time-Distance Helioseismology*”, 2001AGUFMSH11B0709P [ADS](#)
- Zhao, J., Kosovichev, A. G., & Duvall, T. L., “*Time-distance Helioseismology Study Over a Rotating Sunspot*”, 2001AGUFMSH11B0708Z [ADS](#)
- Solanki, S. K., Régulo, C., Fligge, M., & Kosovichev, A. G., “*Noise reduction in helioseismic power spectrums by non-orthogonal wavelets*”, 2001A&A...379..1039S [ADS](#)
- Birch, A. C., Kosovichev, A. G., Price, G. H., & Schlottmann, R. B., “*The Accuracy of the Born and Ray Approximations in Time-Distance Helioseismology*”, 2001ApJ...561L.229B [ADS](#)
- Rhodes, Edward J., Reiter, J., Schou, J., Kosovichev, A. G., & Scherrer, P. H., “*Observed and Predicted Ratios of the Horizontal and Vertical Components of the Solar p-Mode Velocity Eigenfunctions*”, 2001ApJ...561..1127R [ADS](#)
- Gizon, L., Birch, A. C., Bush, R. I., et al., “*Time-distance helioseismology and the Solar Orbiter mission*”, 2001ESASP.493..227G [ADS](#)
- Zhao, J., Kosovichev, A. G., & Duvall, Thomas L., J., “*Investigation of Mass Flows beneath a Sunspot by Time-Distance Helioseismology*”, 2001ApJ...557..384Z [ADS](#)
- Turck-Chièze, S., Couvidat, S., Kosovichev, A. G., et al., “*Solar Neutrino Emission Deduced from a Seismic Model*”, 2001ApJ...555L..69T [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Detection of High-Latitude Waves of Solar Coronal Activity in Extreme-Ultraviolet Data from the Solar and Heliospheric Observatory EUV Imaging Telescope*”, 2001ApJ...554L.107B [ADS](#)
- García, R. A., Régulo, C., Turck-Chièze, S., et al., “*Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO*”, 2001SoPh..200..361G [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Polar Activity Wave in the Solar Corona*”, 2001AGUSM..SP61A05B [ADS](#)
- Birch, A. C., Duvall, T. L., & Kosovichev, A. G., “*Using a Wave-Theory Approach to Time-Distance Helioseismology*”, 2001AGUSM..SP31A21B [ADS](#)
- Zhao, J., Kosovichev, A. G., & Duvall, T. L., “*Mass Flows Beneath the Sunspot from Inversion of Time-distance Helioseismology*”, 2001AGUSM..SP22A04Z [ADS](#)
- Duvall, T. L., Jensen, J. M., Kosovichev, A. G., & Birch, A. C., “*Deep Focusing in Time-Distance Helioseismology*”, 2001AGUSM..SP22A03D [ADS](#)
- Kosovichev, A. G., “*Studying Solar Variability by Local-Area Helioseismology*”, 2001AGUSM..SP22A01K [ADS](#)
- Rhodes, E. J., Reiter, J., Schou, J., Kosovichev, A. G., & Scherrer, P. H., “*Challenges in High-Degree Helioseismology*”, 2001AGUSM..SP21C06R [ADS](#)
- Birch, A. C., Kosovichev, A. G., Spiegel, E. A., & Tao, L., “*Resonant Vibrational Instabilities in Magnetized Stellar Atmospheres*”, 2001SoPh..199..291B [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., “*Magnetic Energy Release and Transients in the Solar Flare of 2000 July 14*”, 2001ApJ...550L.105K [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Active Longitudinal Structures of the Sun from MDI and EIT Observations*”, 2001IAUS..203..251B [ADS](#)
- Birch, A. C. & Kosovichev, A. G., “*Towards a Wave Theory Interpretation of Time-Distance Helioseismology Data*”, 2001IAUS..203..180B [ADS](#)
- Duvall, T. L., J. & Kosovichev, A. G., “*New Developments in Local Area Helioseismology*”, 2001IAUS..203..159D [ADS](#)
- Kosovichev, A. G., Duvall, T. L., J., Birch, A. C., et al., “*Heliotomography of the outer layers of the Sun*”, 2001ESASP.464..701K [ADS](#)
- Turck-Chièze, S., Kosovichev, A. G., Couvidat, S., et al., “*The physics of the solar core deduced from GOLF and MDI acoustic modes*”, 2001ESASP.464..485T [ADS](#)
- Appourchaux, T., Andersen, B., Berthomieu, G., et al., “*g-mode detection: Where do we stand?*”, 2001ESASP.464..467A [ADS](#)
- Sekii, T., Shibahashi, H., Kosovichev, A. G., et al., “*Local-area helioseismology by SOT on-board Solar-B*”, 2001ESASP.464..327S [ADS](#)
- Zharkova, V. V. & Kosovichev, A. G., “*Helioseismic and magnetic waves as signatures of energy transport mechanisms in solar flares*”, 2001ESASP.464..259Z [ADS](#)
- Birch, A. C. & Kosovichev, A. G., “*The Born approximation in time-distance helioseismology*”, 2001ESASP.464..187B [ADS](#)
- Toutain, T. & Kosovichev, A. G., “*Low-degree p-mode parameters: the solar-cycle dependence*”, 2001ESASP.464..123T [ADS](#)
- Kosovichev, A. G., Duvall, T. L., J., & Scherrer, P. H., “*Probing Magnetic Structures in the Solar Interior by Helioseismic Tomography*”, 2001ASPC..248..169K [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Large-Scale Patterns of Solar Magnetic Field and Activity Cycles*”, 2001ASPC..248..135B [ADS](#)
- Benevolenskaya, E. E., Hoeksema, J. T., Kosovichev, A. G., & Scherrer, P. H., “*Solar Active Longitudes and Their Rotations Using SOHO-MDI Data (CD-ROM Directory: contribs/benevo2)*”, 2001ASPC..223..583B [ADS](#)
- Kosovichev, A. G., “*Helioseismic Tomography of Solar Active Regions (CD-ROM Directory: contribs/kosovich)*”, 2001ASPC..223..99K [ADS](#)
- Kosovichev, A., “*Solar Interior: Rotation*”, in P. Murdin (Ed.), Encyclopedia of Astronomy and Astrophysics, 2010 2000eaa..bookE2010K [ADS](#)
- Appourchaux, T., Fröhlich, C., Andersen, B., et al., “*Observational Upper Limits to Low-Degree Solar g-Modes*”, 2000ApJ...538..401A [ADS](#)
- Bertello, L., Varadi, F., Ulrich, R. K., et al., “*Identification of Solar Acoustic Modes of Low Angular Degree and Low Radial Order*”, 2000ApJ...537L.143B [ADS](#)
- Dziembowski, W. A., Goode, P. R., Kosovichev, A. G., & Schou, J., “*Signatures of the Rise of Cycle 23*”, 2000ApJ...537..1026D [ADS](#)
- Wang, H., Goode, P. R., Denker, C., et al., “*Comparison of the 1998 April 29 M6.8 and 1998 November 5 M8.4 Flares*”, 2000ApJ...536..971W [ADS](#)
- Bertello, L., Henney, C. J., Ulrich, R. K., et al., “*Comparison of Frequencies and Rotational Splittings of Solar Acoustic Modes of Low Angular Degree from Simultaneous MDI and GOLF Observations*”, 2000ApJ...535..1066B [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., J., “*Heliotomography: what happens just below the surface?*”, 2000SPD...31.0601K [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., & Scherrer, P. H., “*Sunspots: Frontside and Backside Measurements with Time-Distance Helioseismology*”, 2000SPD...31.0505D [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., “*Observations of Magnetic Energy Release in Solar Flares*”, 2000SPD...31.0259K [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Active Longitudes in Solar Corona*”, 2000SPD...31.0226B [ADS](#)
- Zhao, J., Duvall, T. L., J., & Kosovichev, A. G., “*Diagnostics of Solar Magnetic Fields by Time-Distance Helioseismology*”, 2000SPD...31.0120Z [ADS](#)
- Birch, A. C. & Kosovichev, A. G., “*A Wave-Theory Approach to Time-Distance Helioseismology*”, 2000SPD...31.0107B [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., & Scherrer, P. H., “*Sunspots: frontside and backside measurements with time-distance helioseismology*”, 2000BAAS...32Q.837D [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., “*Observations of magnetic energy release in solar flares.*”, 2000BAAS...32Q.821K [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., J., “*Heliotomography: what happens just below the surface?*”, 2000BAAS...32..837K [ADS](#)
- Toutain, T. & Kosovichev, A. G., “*Optimal Masks for Low-Degree Solar Acoustic Modes*”, 2000ApJ...534L.211T [ADS](#)
- Zhao, X. P., Hoeksema, J. T., Kosovichev, A. G., Bush, R., & Scherrer, P. H., “*The Magnetic Connectivity of Moss Regions*”, 2000SoPh..193..219Z [ADS](#)
- Švestka, Z., Harvey, J. W., Kosovichev, A. G., & Duvall, T. L., J., “*Helioseismic diagnostics of solar convection and activity. Part 1, 2. Proceedings SOHO-9 Workshop, Stanford, CA (USA), 12 - 15 Jul 1999.*”, 2000SoPh..192...1S [ADS](#)
- Birch, A. C. & Kosovichev, A. G., “*Travel Time Sensitivity Kernels*”, 2000SoPh..192..193B [ADS](#)
- Kosovichev, A. G., Duvall, T. L. Jr., J., & Scherrer, P. H., “*Time-Distance Inversion Methods and Results - (Invited Review)*”, 2000SoPh..192..159K [ADS](#)
- Georgobiani, D., Kosovichev, A. G., Nigam, R., Nordlund, Å., & Stein, R. F., “*Numerical Simulations of Oscillation Modes of the Solar Convection Zone*”, 2000ApJ...530L.139G [ADS](#)
- Stepanova, T. V. & Kosovichev, A. G., “*Observation of Shock Waves Associated with Coronal Mass Ejections from SOHO/LASCO*”, 2000AdSpR..25.1855S [ADS](#)
- Zharkova, V. V. & Kosovichev, A. G., “*Helioseismic Waves and Magnetic Field Variations Induced by Solar Flares as Probes of Energy Transport Mechanisms*”, 2000ASPC..206..77Z [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., “*Variations of Photospheric Magnetic Field Associated with Flares and CMEs*”, 1999SoPh..190..459K [ADS](#)
- Benevolenskaya, E. E., Kosovichev, A. G., & Scherrer, P. H., “*Structure and Dynamics of Interconnecting Loops and Coronal Holes in Active Longitudes*”, 1999SoPh..190..145B [ADS](#)
- Benevolenskaya, E. E., Hoeksema, J. T., Kosovichev, A. G., & Scherrer, P. H., “*New and Old Magnetic Fluxes at the Beginning of Solar Cycle 23*”, 1999ESASP.448..69B [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., J., “*Solar tomography*”, 1999CSci...77.1467K [ADS](#)
- Zharkova, V. V. & Kosovichev, A. G., “*Detection of Magnetic Wave Associated with Solar Flares and CME*”, 1999ESASP.446..755Z [ADS](#)
- Kosovichev, A. G., “*Inversion methods in helioseismology and solar tomography*”, 1999JCoAM.109...1K [ADS](#)
- Bertello, L., Henney, C. J., Ulrich, R. K., et al., “*Frequencies and splittings of low-degree acoustic modes: a comparison between MDI and GOLF observations*”, 1999BAAS...31.1242B [ADS](#)

- Kosovichev, A. G., "Oscillations in Active Regions - Diagnostics and Seismology", 1999ASPC..184..151K [ADS](#)
- Bertello, L., Henney, C. J., Ulrich, R. K., et al., "Frequencies and splittings of low-degree acoustic modes: a comparison between MDI and GOLF observations", 1999AAS..19410805B [ADS](#)
- Benevolenskaya, E. E., Hoeksema, J. T., Kosovichev, A. G., & Scherrer, P. H., "The Interaction of New and Old Magnetic Fluxes at the Beginning of Solar Cycle 23", 1999ApJ...517L.163B [ADS](#)
- Birch, A. C., Kosovichev, A. G., Spiegel, E. A., & Tao, L., "Instability of Nonadiabatic Oscillations in a Magnetized Polytrope", 1999AAS..194.9307B [ADS](#)
- Bush, R. I., Beck, J. G., Bogart, R. S., et al., "The SOI-MDI Dynamics Program: Observing the Solar Cycle", 1999AAS..194.9205B [ADS](#)
- Benevolenskaya, E. E., Hoeksema, J. T., Kosovichev, A. G., & Scherrer, P. H., "The Magnetic Structure of the Sun at the Beginning of Solar Cycle 23", 1999AAS..194.9201B [ADS](#)
- Scherrer, P. H., Hoeksema, J. T., Kosovichev, A. G., et al., "SONAR - Solar Near-surface Active Region Rendering", 1999AAS..194.7606S [ADS](#)
- Kosovichev, A. G., Duvall, T. L., J., & Scherrer, P. H., "Imaging of Emerging Magnetic Flux by Time-Distance Helioseismology", 1999AAS..194.5901K [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., & Scherrer, P. H., "Subsurface Observations of Sunspots and Solar Supergranulation", 1999AAS..194.5606D [ADS](#)
- Georgobiani, D. G., Nigam, R., Kosovichev, A. G., Stein, R. F., & Nordlund, A., "Three-dimensional simulations of solar oscillations: line profiles and asymmetries", 1999AAS..194.5605G [ADS](#)
- Larsen, R. M., Kosovichev, A. G., & Schou, J., "A New Technique for Inversion of Helioseismic Data", 1999AAS..194.5604L [ADS](#)
- Rhodes, E. J., J., Reiter, J., Kosovichev, A. G., Schou, J., & Scherrer, P. H., "Solar Internal Rotation as Measured by the SOHO SOI/MDI Full-Disk Program", 1999AAS..194.5602R [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., & Scherrer, P. H., "New Views of Active Regions", 1999AAS..194.4203D [ADS](#)
- Kosovichev, A. G., "The Global View of the Solar Interior", 1999AAS..194.4201K [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Source of Solar Acoustic Modes", 1999ApJ...514L..53N [ADS](#)
- Larsen, R. M., Kosovichev, A. G., & Schou, J., "Helioseismic Studies of the Solar Tachocline", 1999soho....9E..69L [ADS](#)
- Georgobiani, D., Nigam, R., Kosovichev, A. G., & Stein, R. F., "Solar P-Mode Spectrum Asymmetries: Testing Theories With Numerical Simulations", 1999soho....9E..58G [ADS](#)
- Franklin, J. & Kosovichev, A., "Computing 3 D Dynamo Models with Observed Solar Data", 1999soho....9E..57F [ADS](#)
- Birch, A. C. & Kosovichev, A. G., "The Effect of Line-of-Sight Projection on Travel Time Measurements", 1999soho....9E..44B [ADS](#)
- Kosovichev, A. G., "Time-Distance Inversion Methods and Results", 1999soho....9E..20K [ADS](#)
- , "Helioseismic Diagnostics of Solar Convection and Activity", 1999soho....9E....D [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Phase and Amplitude Difference between Velocity and Intensity Helioseismic Spectra", 1999ApJ...510L.149N [ADS](#)
- Kosovichev, A. G., Duvall, T. L., & Scherrer, P. H., "Time-distance helioseismology", 1999AdSpR..24..163K [ADS](#)
- Dziembowski, W. A., Goode, P. R., di Mauro, M. P., Kosovichev, A. G., & Schou, J., "Solar Cycle Onset Seen in SOHO Michelson Doppler Imager Seismic Data", 1998ApJ...509..456D [ADS](#)
- Kosovichev, A. G. & Birch, A. C., "Latitudinal Variation of Solar Subsurface Rotation", 1998AAS..19310004K [ADS](#)
- Nigam, R. & Kosovichev, A. G., "The Source of Solar Oscillations", 1998AAS..19310002N [ADS](#)
- Birch, A. C., Spiegel, E. A., Tao, L., & Kosovichev, A. G., "A Nonlinear Model for Solar Spicules", 1998AAS..19310001B [ADS](#)
- Toutain, T., Appourchaux, T., Fröhlich, C., et al., "Asymmetry and Frequencies of Low-Degree p-Modes and the Structure of the Sun's Core", 1998ApJ...506L.147T [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., & Murawski, K., "Random Damping and Frequency Reduction of the Solar F Mode", 1998ApJ...505L..55D [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Measuring the Sun's Eigenfrequencies from Velocity and Intensity Helioseismic Spectra: Asymmetrical Line Profile-fitting Formula", 1998ApJ...505L..51N [ADS](#)
- Schou, J., Antia, H. M., Basu, S., et al., "Helioseismic Studies of Differential Rotation in the Solar Envelope by the Solar Oscillations Investigation Using the Michelson Doppler Imager", 1998ApJ...505..390S [ADS](#)
- Birch, A. C. & Kosovichev, A. G., "Latitudinal Variation of Solar Subsurface Rotation Inferred from p-Mode Frequency Splittings Measured with SOI-MDI and GONG", 1998ApJ...503L.187B [ADS](#)
- Elliott, J. R. & Kosovichev, A. G., "The Adiabatic Exponent in the Solar Core", 1998ApJ...500L.199E [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., "X-ray flare sparks quake inside Sun", 1998Natur.393..317K [ADS](#)
- Rhodes, E. J., J., Reiter, J., Kosovichev, A. G., Schou, J., & Scherrer, P. H., "Initial High-Degree p-Mode Frequencies and Rotational Frequency Splittings from the SOHO SOI/MDI Experiment", 1998AAS..192.1901R [ADS](#)
- Nigam, R., Kosovichev, A. G., Scherrer, P. H., & Schou, J., "Asymmetry in Velocity and Intensity Helioseismic Spectra: A Solution to a Long-standing Puzzle", 1998ApJ...495L.115N [ADS](#)
- Kosovichev, A. G. & Stepanova, T. V., "Numerical model for coronal shock waves formation in two-fluid approximation", 1998PAICz..88..167K [ADS](#)
- Nigam, R., Kosovichev, A. G., & Scherrer, P. H., "Line asymmetry and excitation mechanism of solar oscillations", 1998IAUS..185..195N [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., "Observation of seismic effects of solar flares from the SOHO Michelson Doppler Imager", 1998IAUS..185..191K [ADS](#)
- Toutain, T. & Kosovichev, A. G., "Observation of low-degree modes from SOHO/MDI using optimal masks", 1998IAUS..185..179T [ADS](#)
- Kosovichev, A. G., Schou, J., Scherrer, P. H., et al., "Spherical and aspherical structure of the sun: First year of SOHO/MDI observations", 1998IAUS..185..157K [ADS](#)
- Giles, P. M., Duvall, T. L., J., & Kosovichev, A. G., "Solar rotation and large-scale flows determined by time-distance helioseismology MDI", 1998IAUS..185..149G [ADS](#)
- Toutain, T., Appourchaux, T., Fröhlich, C., et al., "Line Asymmetry of VIRGO and MDI Low-Degree p Modes", 1998ESASP.418..973T [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Asymmetry and Fitting of Velocity and Intensity Power Spectra from SOHO/MDI", 1998ESASP.418..945N [ADS](#)
- Goode, P. R., Dziembowski, W. A., DiMauro, M. P., Kosovichev, A. G., & Schou, J., "Solar Asymmetries from SOHO/MDI Splitting Data", 1998ESASP.418..887G [ADS](#)
- Dziembowski, W. A., Goode, P. R., Di Mauro, M. P., Kosovichev, A. G., & Schou, J., "Solar Asymmetries from SOHO/MDI Splitting Data", 1998ESASP.418..887D [ADS](#)
- Murawski, K., Duvall, T. L., J., & Kosovichev, A. G., "Damping and Frequency Shift of the Solar f-mode Due to the Interaction with Turbulent Convection", 1998ESASP.418..825M [ADS](#)
- Larsen, R. M., Christensen-Dalsgaard, J., Kosovichev, A. G., & Schou, J., "Improved SOLA Inversions of MDI Data", 1998ESASP.418..813L [ADS](#)
- Birch, A. C. & Kosovichev, A. G., "Latitudinal Dependence of the Solar Rotation Rate in the Upper Convection Zone", 1998ESASP.418..679B [ADS](#)
- Zharkova, V. V. & Kosovichev, A. G., "Seismic Response to Solar Flares Observed SOHO/MDI", 1998ESASP.418..661Z [ADS](#)
- Rosenthal, C. S., Christensen-Dalsgaard, J., Kosovichev, A. G., et al., "Tests of Convective Frequency Effects with SOI/MDI High-Degree Data", 1998ESASP.418..521R [ADS](#)
- Elliott, J. R. & Kosovichev, A. G., "Relativistic Effects in the Solar Equation of State", 1998ESASP.418..453E [ADS](#)
- Toutain, T. & Kosovichev, A. G., "Splittings of MDI Low-Degree p Modes", 1998ESASP.418..349T [ADS](#)
- Rhodes, E. J., J., Reiter, J., Kosovichev, A. G., et al., "The Comparison of Simultaneous SOI/MDI and Mt. Wilson 60-foot Tower Power Spectra and p-Mode Parameters", 1998ESASP.418..311R [ADS](#)
- Komm, R. W., Anderson, E., Hill, F., et al., "Comparison of SOHO-SOI/MDI and GONG Spectra", 1998ESASP.418..253K [ADS](#)
- Appourchaux, T., Andersen, B., Chaplin, W., et al., "Comparative Studies of Low-Order and Low-Degree Solar p Modes", 1998ESASP.418..95A [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Some Numerical Simulations of Oscillations in the Solar Atmosphere", 1998ESASP.418..87A [ADS](#)
- Rhodes, E. J., J., Reiter, J., Kosovichev, A. G., Schou, J., & Scherrer, P. H., "Initial SOI/MDI High-Degree Frequencies and Frequency Splittings", 1998ESASP.418..73R [ADS](#)
- Fröhlich, C., Finsterle, W., Andersen, B., et al., "Observational Upper Limits for Low-Degree Solar g-modes", 1998ESASP.418..67F [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Some results of numerical modeling of solar atmospheric oscillations.", 1998BCrAO..94..123A [ADS](#)
- Kosovichev, A. G. & Duvall, T. L., J., "Acoustic tomography of solar convective flows and structures", 1997ASSL..225..241K [ADS](#)
- Kosovichev, A. G., Nigam, R., Scherrer, P. H., et al., "Probing the Internal Structure of the Sun with the SOHO Michelson Doppler Imager", 1997AAS..191.7311K [ADS](#)
- Scherrer, P. H., Schou, J., Bogart, R. S., et al., "Rotation and Zonal Flows in the Solar Envelope from the SOHO/MDI Observations", 1997AAS..191.7310S [ADS](#)
- Schou, J., Kosovichev, A. G., Goode, P. R., & Dziembowski, W. A., "Determination of the Sun's Seismic Radius from the SOHO Michelson Doppler Imager", 1997ApJ...489L.197S [ADS](#)

- Toutain, T., Appourchaux, T., Baudin, F., et al., "Tri-Phonic Helioseismology: Comparison of Solar P Modes Observed by the Helioseismology Instruments Aboard SOHO", 1997SoPh..175..311T [ADS](#)
- Rhodes, E. J., J., Kosovichev, A. G., Schou, J., Scherrer, P. H., & Reiter, J., "Measurements of Frequencies of Solar Oscillations from the MDI Medium-L Program", 1997SoPh..175..287R [ADS](#)
- Birch, A. C. & Kosovichev, A. G., "Asymptotic Latitudinal Inversion of Frequency Splitting Data", 1997BAAS...29Q1121B [ADS](#)
- Burnette, A. B. & Kosovichev, A. G., "Studying the temporal behavior of the Evershed flow from SOHO/MDI", 1997BAAS...29.1120B [ADS](#)
- Kosovichev, A. G. & Schou, J., "Detection of Zonal Shear Flows beneath the Sun's Surface from f-Mode Frequency Splitting", 1997ApJ...482L.207K [ADS](#)
- Giles, P. M., Duvall, T. L., J., Kosovichev, A. G., & Scherrer, P. H., "Solar Meridional Circulation and Rotation Determined by Time-Distance Helioseismology using MDI Data From SOHO", 1997SPD....28.1002G [ADS](#)
- Nigam, R., Kosovichev, A. G., Scherrer, P. H., & Schou, J., "Analysis of Velocity and Intensity Helioseismic Spectra from SOHO/MDI", 1997SPD....28.0904N [ADS](#)
- Kosovichev, A. G. & SOI Structure Inversion Team, "Spherical and Aspherical Structure of the Sun", 1997SPD....28.0902K [ADS](#)
- Rhodes, E. J., J., Appourchaux, T., Bachmann, K., et al., "The Effects of Systematic Errors in the Estimation of p-Mode Frequencies on the Inversion of Solar Internal Structure", 1997SPD....28.0901R [ADS](#)
- Scherrer, P., Bogart, R., Bush, R., et al., "Performance of the Michelson Doppler Imager Instrument on SOHO", 1997SPD....28.0207S [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., Scherrer, P. H., et al., "Time-Distance Helioseismology with the MDI Instrument: Initial Results", 1997SoPh..170..63D [ADS](#)
- Kosovichev, A. G., Schou, J., Scherrer, P. H., et al., "Structure and Rotation of the Solar Interior: Initial Results from the MDI Medium-L Program", 1997SoPh..170..43K [ADS](#)
- Kosovichev, A. G., Schou, J., Scherrer, P. H., et al., "Internal structure and rotation of the Sun: First results from MDI data", 1997IAUS..181..203K [ADS](#)
- Anderson, E., Antia, H. M., Basu, S., et al., "The seismic structure of the Sun from GONG", 1997IAUS..181..151A [ADS](#)
- Duvall, T. J., Kosovichev, A. G., & Scherrer, P. H., "New Time-distance helioseismology results from the SOI/MDI experiment", 1997IAUS..181..83D [ADS](#)
- Kosovichev, A. G., "Inferences of element abundances from helioseismic data", 1997AIPC..385..159K [ADS](#)
- Rhodes, E. J., J., Kosovichev, A. G., Scherrer, P. H., Schou, J., & Reiter, J., "Frequencies of solar oscillations and the seismic structure of the Sun from SOHO/MDI", 1997AGAb..13..163R [ADS](#)
- Kosovichev, A. G., Scherrer, P. H., & Duvall, T. L., J., "Observation of solar convection with the MDI instrument on SOHO.", 1996BAAS...28.1298K [ADS](#)
- Scherrer, P. H., Bogart, R. S., Bush, R. I., et al., "New Views of the Sun's Interior from the SOHO/MDI Space Experiment", 1996AAAS...189.1803S [ADS](#)
- Kosovichev, A. G., "Helioseismic Constraints on the Gradient of Angular Velocity at the Base of the Solar Convection Zone", 1996ApJ...469L..61K [ADS](#)
- Kosovichev, A. G., "Helioseismic measurements of elemental abundances in the sun's interior", 1996BASI...24..355K [ADS](#)
- Nigam, R. & Kosovichev, A. G., "Study of solar high-frequency modes near the acoustic cut-off frequency", 1996BASI...24..195N [ADS](#)
- Kosovichev, A. G., "Determination of 3D internal structure and flows by tomographic inversion", 1996BASI...24..191K [ADS](#)
- Thompson, M. J., Toomre, J., Anderson, E. R., et al., "Differential Rotation and Dynamics of the Solar Interior", 1996Sci...272.1300T [ADS](#)
- Gough, D. O., Kosovichev, A. G., Toomre, J., et al., "The Seismic Structure of the Sun", 1996Sci...272.1296G [ADS](#)
- Hill, F., Stark, P. B., Stebbins, R. T., et al., "The Solar Acoustic Spectrum and Eigenmode Parameters", 1996Sci...272.1292H [ADS](#)
- Christensen-Dalsgaard, J., Dappen, W., Ajukov, S. V., et al., "The Current State of Solar Modeling", 1996Sci...272.1286C [ADS](#)
- Gough, D. O., Kosovichev, A. G., & GONG Structure Inversions Team, "The Internal Structure of the Sun", 1996AAAS...188.5303G [ADS](#)
- Duvall, T. L., J., Kosovichev, A. G., Scherrer, P. H., & Milford, P. N., "Detection of Subsurface Supergranulation Structure and Flows from MDI High-Resolution Data using Time-Distance Techniques", 1996AAAS...188.4908D [ADS](#)
- Kosovichev, A. G., Duvall, T. L., J., & Scherrer, P. H., "Diagnoses of Shallow Convective Structures by Time-Distance Helioseismology", 1996AAAS...188.3709K [ADS](#)
- Bush, R. I., Bogart, R. S., Hoeksema, J. T., et al., "The MDI Structure Program: Continuous Monitoring of the Solar Interior", 1996AAAS...188.3708B [ADS](#)
- Kosovichev, A. G., "Tomographic Imaging of the Sun's Interior", 1996ApJ...461L..55K [ADS](#)
- Kosovichev, A., "Helioseismic constraints on the properties of the solar core and on the solar neutrino fluxes.", 1996sube.conf..171K [ADS](#)
- Scherrer, P. H., Bogart, R. S., Bush, R. I., et al., "The Solar Oscillations Investigation - Michelson Doppler Imager", 1995SoPh..162..129S [ADS](#)
- Kosovichev, A. G., "Probing the Sun's Interior Structure and Flows By Tomographic Inversion", 1995AAS...18710111K [ADS](#)
- Diener, P., Kosovichev, A. G., Kotok, E. V., Novikov, I. D., & Pethick, C. J., "Non-linear effects at tidal capture of stars by a massive black hole - II. Compressible affine models and tidal interaction after capture", 1995MNRAS.275..498D [ADS](#)
- Kosovichev, A. G., "Helioseismic measurement of element abundances in the solar interior", 1995AdSpR..15g..95K [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Coronal Manifestations of Oscillations: a Numerical Model", 1995ESASP.376b.471A [ADS](#)
- Kosovichev, A. G. & Zharkova, V. V., "Seismic Response to Solar Flares: Theoretical Predictions", 1995ESASP.376b.341K [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "An Attempt to Measure Latitudinal Variation of the Depth of the Convection Zone", 1995ESASP.376b..47G [ADS](#)
- Kosovichev, A. G., "Structure of the Solar Core: Inversion of Recent Low-Degree Data", 1995ESASP.376b..21K [ADS](#)
- Gough, D. O., Kosovichev, A. G., & Toutain, T., "Constrained Estimates of Low-Degree Mode Frequencies and the Determination of the Interior Structure of the Sun", 1995SoPh..157...1G [ADS](#)
- Kosovichev, A. G., "Solar Cycle Variations of the Internal Rotation: a Search for Dynamo Waves", 1995SPD....26..405K [ADS](#)
- Kosovichev, A. G., Basu, S., Christensen-Dalsgaard, J., et al., "Working Group 9 - Interior Structure and Inversions", 1995ESASP.376a.211K [ADS](#)
- Kosovichev, A. G., "The Upper Convective Boundary Layer", 1995ESASP.376a.165K [ADS](#)
- Appourchaux, T., Toutain, T., Gough, D. O., & Kosovichev, A., "Testing the Statistical Significance of the Asymmetries of p-Mode Line Profiles: Application to the IPHIR Data", 1995ASPC...76..314A [ADS](#)
- Kosovichev, A. G. & Gavryuseva, E. A., "Prediction of g-Mode Frequencies", 1995ASPC...76..180K [ADS](#)
- Gough, D. O., Kosovichev, A. G., & Toutain, T., "Frequencies of Low-Degree Modes and the Structure of the Solar Core", 1995ASPC...76..176G [ADS](#)
- Kosovichev, A. G., "Determination of Interior Structure by Inversion", 1995ASPC...76..89K [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "Seismic Effects of North-South Asymmetry of Sun's Rotation", 1995ASPC...76..63G [ADS](#)
- Sekii, T., Gough, D. O., & Kosovichev, A. G., "Inversions of BBSO Rotational Splitting Data", 1995ASPC...76..59S [ADS](#)
- Gough, D. O., Kosovichev, A. G., & Toutain, T., "Constraints on Oblique Rotation of the Solar Core from Low-Degree Modes", 1995ASPC...76..55G [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Numerical modeling of macrospicules and mass ejections in the corona", 1994ESASP.373..179A [ADS](#)
- Kosovichev, A. G., Spadaro, D., Stepanova, T. V., & Ventura, R., "Modelling UV spectral lines from solar coronal transients", 1994ESASP.373..159K [ADS](#)
- Kosovichev, A. G., "Helioseismological measurements of the distribution of helium inside the Sun", 1994AAAS...18512301K [ADS](#)
- Stepanova, T. V. & Kosovichev, A. G., "Modeling of dynamic evolution of coronal loops", 1994SSRv...70..171S [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Numerical simulations of spicule driving mechanisms", 1994SSRv...70..53A [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "On a mechanism of spicule formation by shock waves in magnetic tubes", 1994AstL...20..323A [ADS](#)
- Toutain, T. & Kosovichev, A. G., "A new estimate of the solar core rotation from IPHIR", 1994AA...284..265T [ADS](#)
- Kosovichev, A. G., "Helioseismic evidence for mixing in the radiative interior", in G. Belvedere, M. Rodono, and G. M. Simnett (Eds.), Advances in Solar Physics, Vol. 432, 47-52 1994LN...432..47K [ADS](#)
- Kosovichev, A. G., "Seismic measurements of the helium abundance and the depth of stellar convection zones", 1993MNRAS.265.1053K [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "The Influence of Low-Degree P-Mode Frequencies on the Determination of the Structure of the Solar Interior", 1993MNRAS.264..522G [ADS](#)
- Kosovichev, A. G., "Helioseismic Test of the Standard Solar Model", 1993BAAS...25.1219K [ADS](#)
- Stepanova, T. V. & Kosovichev, A. G., "Interplanetary shocks generated by expanding magnetic loops", 1993AdSpR..13f..51S [ADS](#)
- Rhodes, E. J., J., Cacciani, A., Dappen, W., et al., "Plans for MT.WILSON - Crimean Observatory High-Degree Helioseismology Network", 1993ASPC...42..477R [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "Seismic Analysis of Stellar P-Mode Spectra", 1993ASPC...42..351G [ADS](#)

- Gough, D. O., Kosovichev, A. G., Sekii, T., Libbrecht, K. G., & Woodard, M. F., "The Form of the Angular Velocity in the Solar Convection Zone", 1993ASPC...42..213G [ADS](#)
- Milford, P. N., Scherrer, P. H., Frank, Z., Kosovichev, A. G., & Gough, D. O., "The High-Frequency P-Mode Spectrum", 1993ASPC...42..97M [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "It is possible to determine whether a star is rotating about a unique axis?", 1993ASPC...40..566G [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "Initial asteroseismic inversions", 1993ASPC...40..541G [ADS](#)
- Däppen, W., Gough, D. O., Kosovichev, A. G., & Rhodes, E. J., J., "On the Influence of Treatment of Heavy Elements in the Equation of State on the Resulting Values of the Adiabatic Exponent", 1993ASPC...40..304D [ADS](#)
- Gough, D. O., Kosovichev, A. G., Sekii, T., Libbrecht, K. G., & Woodard, M. F., "Seismic evidence of modulation of the structure and angular velocity of the Sun associated with the solar cycle", 1993ASPC...40..93G [ADS](#)
- Kosovichev, A. G., Christensen-Dalsgaard, J., Däppen, W., et al., "Sources of uncertainty in direct seismological measurements of the solar helium abundance", 1992MNRAS.259..536K [ADS](#)
- Stepanova, T. V. & Kosovichev, A. G., "A numerical model of interaction of coronal transients with the solar wind.", 1992ESASP.348..209S [ADS](#)
- Kosovichev, A. G. & Novikov, I. D., "Non-linear effects at tidal capture of stars by a massive black hole. I - Incompressible affine model", 1992MNRAS.258..715K [ADS](#)
- Kosovichev, A. G. & Stepanova, T. V., "Numerical model for coronal shock wave formation in two-fluid approximation", 1992swo..coll..61K [ADS](#)
- Kosovichev, A. G. & Stepanova, T. V., "Numerical Simulation of Shocks in the Heliosphere", 1991SvA....35..646K [ADS](#)
- Kosovichev, A. G. & Stepanova, T. V., "Numerical simulation of shock waves in the heliosphere", 1991AZh....68.1283K [ADS](#)
- Kosovichev, A. G. & Fedorova, A. V., "Construction of a Seismic Model of the Sun", 1991SvA....35..507K [ADS](#)
- Däppen, W., Gough, D. O., Kosovichev, A. G., & Thompson, M. J., "A New Inversion for the Hydrostatic Stratification of the Sun", in D. Gough and J. Toomre (Eds.), Challenges to Theories of the Structure of Moderate-Mass Stars, Vol. 388, 111 1991LMP...388..111D [ADS](#)
- Kosovichev, A. G. & Skulskii, M. Y., "Oscillations and Tidal Resonance Phenomena in the Beta-Lyrae System", 1990SvAL...16..103K [ADS](#)
- Kosovichev, A. G. & Skulsky, M. Y., "Oscillation and tidal resonant phenomena in beta-Lyrae.", 1990PAZh...16..240K [ADS](#)
- Kosovichev, A. G., "Structure of the Solar Core Inferred from Inversion of Frequencies of Low-Degree p-Modes", in Y. Osaki and H. Shibashi (Eds.), Progress of Seismology of the Sun and Stars, Vol. 367, 319 1990LNP...367..319K [ADS](#)
- Kosovichev, A. G., "Helioseismological Determination of Stratification and Dynamic Processes in the Solar Core", 1990IAUS..142..56K [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "Using Helioseismic Data to Probe the Hydrogen Abundance in the Solar Core", 1990ASSL..159..327G [ADS](#)
- Kosovichev, A. G. & Perdang, J., "The effect of a nonspherical sound speed on the acoustic frequency spectrum of the Sun.", 1988ESASP.286..539K [ADS](#)
- Kosovichev, A. G., "Determination of the solar speed by an asymptotic inversion technique.", 1988ESASP.286..533K [ADS](#)
- Gough, D. O. & Kosovichev, A. G., "An attempt to understand the stanford p-mode data.", 1988ESASP.286..195G [ADS](#)
- Kosovichev, A. G., "The Structure of Thermal Waves in High-Temperature Solar-Flare Plasma", 1988SvAL...14..243K [ADS](#)
- Kosovichev, A. G. & Parchevskii, K. V., "An Asymptotic Solution of the Inverse Problem of Helioseismology for the Internal Differential Rotation of the Sun", 1988SvAL...14..201K [ADS](#)
- Kosovichev, A. G., "The structure of thermal waves in a high temperature flare plasma", 1988PAZh...14..569K [ADS](#)
- Kosovichev, A. G. & Parchevskii, K. V., "An asymptotic solution to the inverse problem of helioseismology for determining the internal differential rotation of the sun", 1988PAZh...14..473K [ADS](#)
- Kosovichev, A. G., "The determination of the angular velocity of the sun's inner rotation using helioseismological data", 1988PAZh...14..344K [ADS](#)
- Kosovichev, A. G., "The Internal Rotation of the Sun from Helioseismological Data", 1988SvAL...14..145K [ADS](#)
- Gorkin, L. B. & Kosovichev, A. G., "Spatial structures of normal modes of solar oscillations", 1988IzKry..80..157G [ADS](#)
- Bojko, A. Y., Kosovichev, A. G., Popov, Y. P., & Sokolov, V. S., "On conditions of plasma layers formation with enhanced electric current density and temperature in the atmosphere of the Sun.", 1988IzKry..79..11B [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Energetics of heat source in high-temperature plasma of solar flares.", 1988IzKry..78..140A [ADS](#)
- Kosovichev, A. G., "An Attempt to Determine the Structure of the Solar Core from Observed G-Mode Frequencies", 1988IAUS..123..141K [ADS](#)
- Dziembowski, W., Kosovichev, A., & Kozłowski, M., "Inertial Modes Trapped in the Solar Convective Envelope", 1988IAUS..123..117D [ADS](#)
- Kosovichev, A. G., "Determining the internal rotation of the Sun from the frequency splitting of acoustic modes", 1988BCrAO..80..167K [ADS](#)
- Gorkin, L. B. & Kosovichev, A. G., "Spatial structure of normal-mode solar oscillations", 1988BCrAO..80..151G [ADS](#)
- Boiko, A. Y., Kosovichev, A. G., Popov, Y. P., & Sokolov, V. S., "Conditions of plasma layers formation with enhanced electric current density and temperature in the Sun's atmosphere", 1988BCrAO..79..9B [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Heat-source energetics in high-temperature flare plasma", 1988BCrAO..78..153A [ADS](#)
- Dziembowski, W., Krolowska, M., & Kosovichev, A., "Nonlinear mode coupling in oscillating stars. III. Amplitude limiting effect of the rotation in the Delta Scuti stars.", 1988AcA....38..61D [ADS](#)
- Kosovichev, A. G. & Parchevsky, K. V., "Asymptotic Solution Of The Inverse Problem Of Helioseismology For Determining The Internal Differential Rotation Of The Sun", 1988AZh....14..473K [ADS](#)
- Kotov, V. A. & Kosovichev, A. G., "On the possibility of rapid rotation of the solar core.", 1987IzKry..77..72K [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Numerical calculations of thermal waves in the solar corona.", 1987IzKry..76..186A [ADS](#)
- Kosovichev, A. G., "Nonlinear effects of acoustic oscillations in the Sun.", 1987IzKry..76..179K [ADS](#)
- Kotov, V. A. & Kosovichev, A. G., "On the possibility of rapid rotation of the solar core", 1987BCrAO..77..80K [ADS](#)
- Andreev, A. S. & Kosovichev, A. G., "Numeric calculations of thermal waves in the solar corona", 1987BCrAO..76..195A [ADS](#)
- Kosovichev, A. G., "Nonlinear effects of acoustic oscillations in the Sun", 1987BCrAO..76..188K [ADS](#)
- Dziembowski, W. & Kosovichev, A., "Low Frequency Oscillations in Slowly Rotating Stars - Part Three - Kelvin-Helmholtz Instability", 1987AcA....37..341D [ADS](#)
- Dziembowski, W., Kosovichev, A., & Kozłowski, M., "Low Frequency Oscillations in Slowly Rotating Stars - Part Two - Inertial Modes in the Solar Convective Envelope", 1987AcA....37..331D [ADS](#)
- Dziembowski, W. & Kosovichev, A., "Low frequency oscillations in slowly rotating stars. I. General properties.", 1987AcA....37..313D [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., "Interpretations of the 160-MINUTE Solar Oscillation", 1986SvAL...12..97K [ADS](#)
- Kosovichev, A. G. & Severnyj, A. B., "Interpretations of the 160-minute solar oscillation", 1986PAZh...12..238K [ADS](#)
- Kosovichev, A. G., "Solution of the inverse problem of helioseismology on the basis of observations of gravity-mode oscillations of the sun.", 1986IzKry..75..40K [ADS](#)
- Kosovichev, A. G., "On possible effects of background gravitational waves with a period of 160 min on the sun and close binaries.", 1986IzKry..75..33K [ADS](#)
- Kosovichev, A. G., "Mathematical method of analysis of solar oscillation data obtained from a photodiode array.", 1986IzKry..75..22K [ADS](#)
- Kosovichev, A. G., "Numerical simulations of gas-dynamical and thermal processes in the impulsive phase of solar flares.", 1986IzKry..75..8K [ADS](#)
- Kosovichev, A. G., "Solution of an inverse helioseismological problem from observations on solar gravitational oscillations.", 1986BCrAO..75..36K [ADS](#)
- Kosovichev, A. G., "Possible effects on the sun and close binary systems from background gravitational radiation with period 160 min.", 1986BCrAO..75..30K [ADS](#)
- Kosovichev, A. G., "Processing photodiode-array solar-oscillation observations.", 1986BCrAO..75..19K [ADS](#)
- Kosovichev, A. G., "Simulating thermal and gasdynamic processes in solar-flare pulse phases", 1986BCrAO..75..6K [ADS](#)
- Kosovichev, A. G., "On the influence of gravitational radiation on the 160-min solar oscillation", 1985IzKry..73..15K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., "Influence of the chemical composition on the stability of solar gravity mode oscillations.", 1985IzKry..72..188K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., "Excitation of stellar oscillations during close encounters", 1985IzKry..70..14K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., "Chemical composition effects on the stability of the Sun's natural gravitational oscillations.", 1985BCrAO..72..162K [ADS](#)
- Kosovichev, A. G., "The Effects of Gravitational Radiation on the Solar 160-Min Pulsations", 1985BCrAO..72..13K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., "Excitation of oscillations in a stellar encounter", 1985BCrAO..70..13K [ADS](#)
- Kosovichev, A. G. & Severnyj, A. B., "The stability of solar gravity-mode oscillations and the structure of the sun", 1984SvAL...10..284K [ADS](#)

- Kosovichev, A. G. & Severnyj, A. B., “*The stability of solar gravity-mode oscillations and the structure of the sun*”, 1984PAZh...10..679K [ADS](#)
- Kosovichev, A. G., “*The 160-minute solar pulsations are not excited by gravitational waves*”, 1984PAZh...10..457K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., “*Instability of non-radial g-mode oscillations of the sun with low-Z interior*”, 1984MmSAI..55..129K [ADS](#)
- Kosovichev, A. G., “*The 160-MINUTE Solar Pulsations are not Excited by Gravitational Waves*”, 1984SvAL...10..190K [ADS](#)
- Kosovichev, A. G. & Severny, A. B., “*On the Stability of Solar Gravity Mode Oscillations and the Structure of the Sun*”, 1984LIACo..25..278K [ADS](#)
- Kosovichev, A. G., “*A method for the numerical calculation of the nonlinear radial pulsations of stars*”, 1984IzKry..69..108K [ADS](#)
- Kosovichev, A. G., “*Numerical Analysis of Nonlinear Radial Pulsations of Stars*”, 1984BCrAO..69..101K [ADS](#)
- Kosovichev, A. G. & Severnyj, A. B., “*Stellar oscillations triggered by close encounters*”, 1983PAZh....9..424K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., “*Stellar Oscillations Triggered by Close Encounters*”, 1983SvAL....9..223K [ADS](#)
- Kosovichev, A. G. & Severny, A. B., “*On the Excitation of Oscillations of the Sun - Numerical Models*”, 1983SoPh...82..323K [ADS](#)
- Livshits, M. A., Badalian, O. G., Kosovichev, A. G., & Katsova, M. M., “*The Optical Continuum of Solar and Stellar Flares*”, 1981SoPh...73..269L [ADS](#)
- Kosovichev, A. G. & Severnyj, A. B., “*On the excitation of oscillations in the sun*”, 1981PAZh....7..304K [ADS](#)
- Kosovichev, A. G. & Severnyi, A. B., “*On the Excitation of Oscillations in the Sun*”, 1981SvAL....7..168K [ADS](#)
- Katsova, M. M., Kosovichev, A. G., & Livshits, M. A., “*Origin of the Optical Continuum of Flares on Red Dwarfs*”, 1981Ap.....17..156K [ADS](#)
- Katsova, M. M., Kosovichev, A. G., & Livshits, M. A., “*Origin of the optical continuum of flares on red dwarfs*”, 1981Afz....17..285K [ADS](#)
- Popov, I. P. & Kosovichev, A. G., “*On quasi-periodic oscillations in the solar atmosphere*”, 1981IzKry..63..15P [ADS](#)
- Kosovichev, A. G. & Popov, Y. P., “*Quasiperiodic oscillations in the solar atmosphere*”, 1981BCrAO..63..15K [ADS](#)
- Katsova, M. M., Kosovichev, A. G., & Livshits, M. A., “*The nature of the optical continuum of red-dwarf flares*”, 1980PAZh....6..498K [ADS](#)
- Katsova, M. M., Kosovichev, A. G., & Livshits, M. A., “*The Nature of the Optical Continuum of Red Dwarf Flares*”, 1980SvAL....6..275K [ADS](#)
- Kosovichev, A. G. & Popov, I. P., “*Calculation of one-dimensional unsteady-state problems of gravitational gasdynamics*”, 1979ZVMMF..19.1253K [ADS](#)
- Kosovichev, A. G., Livshits, M. A., & Badalyan, O. G., “*Gas-dynamical processes under the action of heating of the chromosphere by accelerated electrons.*”, 1979ATsir1069....1K [ADS](#)
- Sokolov, V. S. & Kosovichev, A. G., “*Nonlinear stage of instability due to local Joule-overheating in the solar active regions.*”, 1978SoPh...57..73S [ADS](#)
- Sokolov, V. S., Katsnel’Son, S. S., Katsnelson, S. S., Kosovichev, A. G., & Slavin, V. S., “*Skinnin process stability of the magnetic field in the solar active regions.*”, 1977SoPh...51..293S [ADS](#)
- Sokolov, V. S., Kosovichev, A. G., & Slavin, V. S., “*On a model of chromospheric flares on the sun.*”, 1977mmns.conf..216S [ADS](#)
- Kosovichev, A. G. & Sokolov, V. S., “*On the stability of the magnetic field skin zone in the solar lower chromosphere plasma.*”, 1975AehIs...5..17K [ADS](#)