

Bibliography from ADS file: zahn.bib
 September 14, 2022

- Alexov, A., Abney, F., Kyprianou, M., Levay, K., & Zahn, J., “Integrating Single Sign-On into the STScI Archive: Lessons Learned”, 2017ASPC..512..93A [ADS](#)
- Barnabé, R., Strugarek, A., Charbonneau, P., Brun, A. S., & Zahn, J.-P., “Confinement of the solar tachocline by a cyclic dynamo magnetic field”, 2017A&A..601A..47B [ADS](#)
- Lainey, V., Jacobson, R. A., Tajeddine, R., et al., “New constraints on Saturn’s interior from Cassini astrometric data”, 2017Icar..281..286L [ADS](#)
- Aurière, M., Konstantinova-Antova, R., Charbonnel, C., et al., “The magnetic fields at the surface of active single G-K giants”, 2015A&A..574A..90A [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “The surface signature of the tidal dissipation of the core in a two-layer planet”, 2015A&A..573A..23R [ADS](#)
- Mathis, S., Auclair-Desrotour, P., Guenel, M., et al., “Tidal dissipation in stars and fluid planetary layers and their impact on the evolution of star-planet systems”, 2014spih.confE..6M [ADS](#)
- Remus, F., Mathis, S., Zahn, J.-P., & Lainey, V., “Anelastic Tidal Dissipation in Multi-Layer Planets”, 2014IAUS..293..362R [ADS](#)
- Zahn, J. P., “Rotation induced mixing in stellar interiors”, 2013EAS...63..245Z [ADS](#)
- Zahn, J.-P., “Stellar Tides”, in J. Souchay, S. Mathis, and T. Tokieda (Eds.), Lecture Notes in Physics, Berlin Springer Verlag, Vol. 861, 301 2013LNP..861..301Z [ADS](#)
- Marques, J. P., Goupil, M. J., Lebreton, Y., et al., “Seismic diagnostics for transport of angular momentum in stars. I. Rotational splittings from the pre-main sequence to the red-giant branch”, 2013A&A..549A..74M [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “The anelastic equilibrium tide in exoplanetary systems”, 2012sf2a.conf..245R [ADS](#)
- Remus, F., Mathis, S., Zahn, J., & Lainey, V., “The Anelastic Equilibrium Tide in Giant Planets”, 2012DPS...4411319R [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “Anelastic tidal dissipation in multi-layer planets”, 2012epsc.conf..840R [ADS](#)
- Remus, F., Mathis, S., & Zahn, J. P., “The equilibrium tide in stars and giant planets. I. The coplanar case”, 2012A&A..544A.132R [ADS](#)
- Lainey, V., Karatekin, Ö., Desmars, J., et al., “Strong Tidal Dissipation in Saturn and Constraints on Enceladus’ Thermal State from Astrometry”, 2012ApJ...752...14L [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “Anelastic tidal dissipation in multi-layer planets”, 2012A&A..541A.165R [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “The equilibrium tide in viscoelastic parts of planets”, 2011sf2a.conf..519R [ADS](#)
- Remus, F., Mathis, S., & Zahn, J. P., “The fluid equilibrium tide in stars and giant planets”, 2011sf2a.conf..515R [ADS](#)
- Strugarek, A., Brun, A. S., & Zahn, J. P., “Magnetic confinement of the solar tachocline: The oblique dipole”, 2011AN...332..891S [ADS](#)
- Zahn, J.-P., “Mixing in Stars”, 2011iasa.confE..18Z [ADS](#)
- Remus, F., Mathis, S., Zahn, J. P., & Lainey, V., “The elasto-viscous equilibrium tide in exoplanetary systems”, 2011epsc.conf.1372R [ADS](#)
- Remus, F., Mathis, S., & Zahn, J. P., “The fluid equilibrium tide in stars and giant planets”, 2011epsc.conf.1366R [ADS](#)
- Remus, F., Mathis, S., & Zahn, J., “The fluid Equilibrium Tide In Stars And Giant Planets”, 2011ESS....2.3401R [ADS](#)
- Strugarek, A., Brun, A. S., & Zahn, J.-P., “Magnetic confinement of the solar tachocline: influence of turbulent convective motions”, 2011IAUS..271..399S [ADS](#)
- Zahn, J.-P., “Juri Toomre and the art of modeling convection zones”, 2011IAUS..271..339Z [ADS](#)
- Strugarek, A., Brun, A. S., & Zahn, J. P., “Magnetic confinement of the solar tachocline: II. Coupling to a convection zone”, 2011A&A..532A..34S [ADS](#)
- Zahn, J.-P., “Rapid rotation and mixing in active OB stars - Physical processes”, 2011IAUS..272...14Z [ADS](#)
- Zahn, J. P., Ranc, C., & Morel, P., “On the shape of rapidly rotating stars”, 2010A&A..517A..7Z [ADS](#)
- Zahn, J. P., “The impact of magnetic fields on stellar structure and evolution”, 2009CoAst.158..27Z [ADS](#)
- Mediavilla, E., Oscoz, A., Serra-Ricart, M., & Zahn, J.-P.: 2009, Spanish Relativity Meeting Encuentros Relativistas Espanoles 2009srme.book.....M [ADS](#)
- Zahn, J.-P., “ISSI Workshop on Solar Magnetism: Concluding Remarks”, 2009SSRv..144..423Z [ADS](#)
- Mathis, S., Brun, A. S., & Zahn, J. P., “On MHD rotational transport, instabilities and dynamo action in stellar radiation zones”, 2009IAUS..259..421M [ADS](#)
- Gondoin, P., Fridlund, M., Goupil, M. J., et al., “CoRot observations of active giants: preliminary results”, 2009AIPC.1094..864G [ADS](#)
- Decressin, T., Mathis, S., Palacios, A., et al., “Diagnoses to unravel secular hydrodynamical processes in rotating main sequence stars”, 2009A&A...495..271D [ADS](#)
- Zahn, J.-P., “ISSI Workshop on Solar Magnetism: Concluding Remarks”, 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, 423 2009odsm.book..423Z [ADS](#)
- Thompson, M. J., Balogh, A., Culhane, J. L., et al.: 2009, *The Origin and Dynamics of Solar Magnetism*, Vol. 32 2009odsm.book.....T [ADS](#)
- Zahn, J. P., “The Sun: A Slowly Rotating Star”, in The Rotation of Sun and Stars, Vol. 765, 1–14 2009LNP...765....1Z [ADS](#)
- Neiner, C. & Zahn, J.-P., “Foreword”, 2009EAS...39D..3N [ADS](#)
- Zahn, J. P., “The impact of magnetic fields on stellar structure and evolution”, 2009EAS...39..211Z [ADS](#)
- , “Stellar Magnetism”, 2009EAS...39.....N [ADS](#)
- Zahn, J. P., “Effects of rotation on stellar structure: rotation induced mixing”, 2008CoAst.157..196Z [ADS](#)
- Zahn, J. P., Brun, A. S., & Mathis, S., “Dynamical aspects of stellar physics”, 2008sf2a.conf..341Z [ADS](#)
- Charbonnel, C. & Zahn, J. P., “Foreword”, 2008EAS...32D..3C [ADS](#)
- , “Stellar Nucleosynthesis: 50 years after B2FH”, 2008EAS...32.....C [ADS](#)
- Mathis, S., Talon, S., Pantillon, F. P., Charbonnel, C., & Zahn, J. P., “Wave transport in stellar radiation zone influenced by the Coriolis acceleration”, 2008JPhCS.118a2025M [ADS](#)
- Mathis, S., Zahn, J. P., & Brun, A. S., “On MHD rotational transport, instabilities and dynamo action in stellar radiation zones”, 2008IAUS..252..255M [ADS](#)
- Charbonnel, C. & Zahn, J.-P., “Thermohaline mixing and fossil magnetic fields in red giant stars”, 2008IAUS..252..245C [ADS](#)
- Zahn, J.-P., “Instabilities and mixing in stellar radiation zones”, 2008IAUS..252..47Z [ADS](#)
- Mathis, S., Talon, S., Pantillon, F. P., & Zahn, J. P., “Angular Momentum Transport in the Sun’s Radiative Zone by Gravito-Inertial Waves”, 2008SoPh..251..101M [ADS](#)
- Goupil, M. J. & Zahn, J. P., “Foreword”, 2008EAS...29D..3G [ADS](#)
- Zahn, J. P., “Tidal dissipation in binary systems”, 2008EAS...29..67Z [ADS](#)
- , “Tidal Effects in Stars, Planets and Disks”, 2008EAS...29.....G [ADS](#)
- Tevzadze, A. G., Chagelishvili, G. D., & Zahn, J. P., “Hydrodynamic stability and mode coupling in Keplerian flows: local strato-rotational analysis”, 2008A&A...478..9T [ADS](#)
- Collin, S. & Zahn, J. P., “Star formation in accretion discs: from the Galactic center to active galactic nuclei”, 2008A&A..477..419C [ADS](#)
- Mathis, S., Decressin, T., Palacios, A., et al., “Meridional circulation in the radiation zones of rotating stars: Origins, behaviors and consequences on stellar evolution”, 2007AN...328.1062M [ADS](#)
- Charbonnel, C. & Zahn, J. P., “Inhibition of thermohaline mixing by a magnetic field in Ap star descendants: implications for the Galactic evolution of ^3He ”, 2007A&A..476L..29C [ADS](#)
- Zahn, J. P., Brun, A. S., & Mathis, S., “On magnetic instabilities and dynamo action in stellar radiation zones”, 2007A&A..474..145Z [ADS](#)
- Zahn, J. P., Brun, A. S., & Mathis, S., “Can a dynamo operate in stellar radiation zones?”, 2007sf2a.conf..566Z [ADS](#)
- Mathis, S. & Zahn, J. P., “Transport and mixing by internal waves in stellar interiors: effect of the Coriolis force”, 2007arXiv0706.2446M [ADS](#)
- Zahn, J.-P., “Concluding remarks”, 2007IAUS..239..517Z [ADS](#)
- Charbonnel, C. & Zahn, J. P., “Thermohaline mixing: a physical mechanism governing the photospheric composition of low-mass giants”, 2007A&A..467L..15C [ADS](#)
- Mathis, S., Palacios, A., & Zahn, J. P.: 2007, *On shear-induced turbulence in rotating stars*, Astronomy and Astrophysics, Volume 462, Issue 3, February II 2007, pp.1063-1064 2007A&A..462.1063M [ADS](#)
- Zahn, J.-P., “Hydrodynamic models of the tachocline”, 2007sota.conf..89Z [ADS](#)
- Lominadze, J. G., Tevzadze, A. G., Chagelishvili, G. D., Zahn, J. P., & Chaniashvili, R. G., “On hydrodynamic shear turbulence in spectrally stable Keplerian disks”, 2007acag.conf..335L [ADS](#)
- Mathis, S., Eggenberger, P., Decressin, T., et al., “Advances in Secular Magnetohydrodynamics of Stellar Interiors Dedicated to Asteroseismic Spatial Missions”, 2007EAS...26..65M [ADS](#)
- Zahn, J. P., “Modeling Stellar Interiors with Rotational Mixing”, 2007EAS...26..49Z [ADS](#)
- Goupil, M. J., Moya, A., Suarez, J. C., et al., “Why Bothering to Measure Stellar Rotation with CoRoT?”, 2006ESASP1306..51G [ADS](#)

- Mathis, S., Decressin, T., Palacios, A., et al., "Dynamical processes in stellar radiation zones: secular magnetohydrodynamics of rotating stars", 2006ESASP.624E..36M [ADS](#)
- Turck-Chièze, S., Schmutz, W., Thuillier, G., et al., "The DynaMICS perspective", 2006ESASP.624E..24T [ADS](#)
- Brun, A. S. & Zahn, J. P., "Magnetic confinement of the solar tachocline", 2006A&A...457..665B [ADS](#)
- Mathis, S., Decressin, T., Palacios, A., et al., "Dynamical processes in stellar radiation zones", 2006IAUJD..17E..18M [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](#)
- Mathis, S., Decressin, T., Palacios, A., et al., "Dynamical processes in stellar radiation zones: secular magnetohydrodynamics of rotating stars", 2006sf2a.conf..491M [ADS](#)
- Mathis, S. & Zahn, J. P., "Tidal effects in extrasolar planetary systems", 2006sf2a.conf..487M [ADS](#)
- Brun, A. S. & Zahn, J. P., "Magnetic instabilities in stellar radiation zones", 2006sf2a.conf..451B [ADS](#)
- Choy, K., Kruk, T., Carrington, M. E., et al., "Energy flow in acoustic black holes", 2006PhRvD..73j4011C [ADS](#)
- Zahn, J. P., "Rotational mixing in stellar radiation zones: successes and weaknesses", 2006EAS....19..147Z [ADS](#)
- Mathis, S. & Zahn, J. P., "Transport and mixing by internal waves in stellar interiors: effect of the Coriolis force", 2005sf2a.conf..319M [ADS](#)
- Hasan, S. S., Zahn, J. P., & Christensen-Dalsgaard, J., "Probing the internal magnetic field of slowly pulsating B-stars through g modes", 2005A&A...444L..29H [ADS](#)
- Zahn, J. P., "What did we learn from the tidal evolution theory?", 2005ASPC..333..280Z [ADS](#)
- Mathis, S. & Zahn, J. P., "Equilibrium tides in differentially rotating stars", 2005ASPC..333..108M [ADS](#)
- Zahn, J. P., "Physical mechanisms for tidal dissipation", 2005ASPC..333....4Z [ADS](#)
- , "Tidal Evolution and Oscillations in Binary Stars", 2005ASPC..333....C [ADS](#)
- Dubrulle, B., Dauchot, O., Daviaud, F., et al., "Stability and turbulent transport in Taylor-Couette flow from analysis of experimental data", 2005PhFl...17i5103D [ADS](#)
- Mathis, S. & Zahn, J. P., "Transport and mixing in the radiation zones of rotating stars. II. Axisymmetric magnetic field", 2005A&A...440..653M [ADS](#)
- Zahn, J.-P., "The Spite plateau: a puzzle and a challenge for the stellar physicist", 2005IAUS..228..41Z [ADS](#)
- North, P. & Zahn, J. P., "Circularization in B-Type Eclipsing Binaries in both Magellanic Clouds", 2005HiA....13..466N [ADS](#)
- Zahn, J. P., "Processes competing with atomic diffusion: mass loss, turbulence, rotation, etc.", 2005EAS....17..157Z [ADS](#)
- Dubrulle, B., Marié, L., Normand, C., et al., "An hydrodynamic shear instability in stratified disks", 2005A&A...429....1D [ADS](#)
- Mathis, S. & Zahn, J. P., "Mixing in stellar radiation zones: new theoretical results", 2004sf2a.conf..543M [ADS](#)
- Mathis, S. & Zahn, J. P., "Advances in the modelization of binary systems: revisiting the equilibrium tide", 2004sf2a.conf..241M [ADS](#)
- Mathis, S., Palacios, A., & Zahn, J. P., "On shear-induced turbulence in rotating stars", 2004A&A...425..243M [ADS](#)
- Mathis, S. & Zahn, J. P., "Transport and mixing in the radiation zones of rotating stars. I. Hydrodynamical processes", 2004A&A...425..229M [ADS](#)
- North, P. & Zahn, J. P., "Circularization in B-type eclipsing binaries in both Magellanic Clouds", 2004NewAR..48..741N [ADS](#)
- Zahn, J. P., "Summary and Concluding Remarks (Invited Review)", 2004IAUS..215..616Z [ADS](#)
- Heydari-Malayeri, M., Stee, P., & Zahn, J.-P., "Foreword", 2004EAS....13D..3H [ADS](#)
- Zahn, J. P., "Rotational mixing in stellar radiation zones", 2004EAS....13..63Z [ADS](#)
- , "Evolution of Massive Stars, Mass Loss and Winds", 2004EAS....13....H [ADS](#)
- Kiraga, M., Jahn, K., Stępień, K., & Zahn, J. P., "Direct NumeriSimulations of Penetrative Convection and Generation of Internal Gravity Waves", 2003AcA....53..321K [ADS](#)
- Tevzadze, A. G., Chagelishvili, G. D., Zahn, J. P., Chanishvili, R. G., & Lominadze, J. G., "On hydrodynamic shear turbulence in stratified Keplerian disks: Transient growth of small-scale 3D vortex mode perturbations", 2003A&A...407..779T [ADS](#)
- North, P. & Zahn, J. P., "Circularization in B-type eclipsing binaries in the Magellanic Clouds", 2003A&A...405..677N [ADS](#)
- Chagelishvili, G. D., Zahn, J. P., Tevzadze, A. G., & Lominadze, J. G., "On hydrodynamic shear turbulence in Keplerian disks: Via transient growth to bypass transition", 2003A&A...402..401C [ADS](#)
- Mathis, S. & Zahn, J. P., "Transport in stellar radiation zones with magnetic field", 2003sf2a.conf..601M [ADS](#)
- Zahn, J. P., "Mixing in stellar radiation zones", in M. J. Thompson and J. Christensen-Dalsgaard (Eds.), Stellar Astrophysical Fluid Dynamics, 205–218 2003sf2a.conf..205Z [ADS](#)
- North, P. & Zahn, J.-P., "Orbital Circularization in the Magellanic Clouds", 2003IAUJD..13E..33N [ADS](#)
- Zahn, J. P., "Jean-Louis Leroy: a pioneer", 2003EAS....9....1Z [ADS](#)
- Talon, S., Kumar, P., & Zahn, J.-P., "Angular Momentum Extraction by Gravity Waves in the Sun", 2002ApJ...574L.175T [ADS](#)
- Brun, A. S., Antia, H. M., Chitre, S. M., & Zahn, J. P., "Seismic tests for solar models with tachocline mixing", 2002A&A...391..725B [ADS](#)
- Zahn, J.-P., "Concluding remarks [Mixing and diffusion in stars]", 2002HiA....12..307Z [ADS](#)
- Vandenberg, D. A. & Zahn, J.-P., "Joint Discussion 5 - Mixing and diffusion in stars: introduction and brief overview", 2002HiA....12..259V [ADS](#)
- Bouvier, J. & Zahn, J.-P., "Foreword", 2002EAS....3D..3B [ADS](#)
- , "Star formation and the physics of young stars : Summer School on Stellar Physics 10", 2002EAS....3....B [ADS](#)
- Zahn, J. P., "Convective Overshooting: Physical Properties and Seismic Evidence (invited review)", 2002ASPC..259..58Z [ADS](#)
- Richard, D., Hersant, F., Dauchot, O., et al., "A powerful local shear instability in stratified disks", 2001astro.ph.1005R [ADS](#)
- Huré, J. M., Richard, D., & Zahn, J. P., "Accretion discs models with the β -viscosity prescription derived from laboratory experiments", 2001A&A...367.1087H [ADS](#)
- Schatzman, E., Zahn, J. P., & Morel, P., "Shear turbulence beneath the solar tachocline", 2000A&A...364..876S [ADS](#)
- Zahn, J., "Solar Interior", in P. Murdin (Ed.), Encyclopedia of Astronomy and Astrophysics, 2417 2000eaa..bookE2417Z [ADS](#)
- Zahn, J., "Hydrodynamic Instabilities", in P. Murdin (Ed.), Encyclopedia of Astronomy and Astrophysics, 2091 2000eaa..bookE2091Z [ADS](#)
- Brun, A. S., Turck-Chièze, S., & Zahn, J. P., "Erratum: Standard Solar Models in the Light of New Helioseismic Constraints. II. Mixing below the Convective Zone", 2000ApJ...536.1005B [ADS](#)
- Zahn, J.-P., "Tidal Dissipation", 2000astu.confE..36Z [ADS](#)
- Zahn, J.-P. & Richard, D.: 2000, *Turbulence in Differentially Rotating Flows: New Results from a Couette-Taylor Experiment*, Presented at the KITP Program: Astrophysical Turbulence, Apr 28, 2000, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.34 2000astu.progE..34Z [ADS](#)
- Brun, A. S. & Zahn, J. P., "Influence of the Tachocline on Solar Evolution.", 2000NYASA.898..113B [ADS](#)
- Zahn, J. P., "Plumes in Stellar Convection Zones.", 2000NYASA.898..90Z [ADS](#)
- Zahn, J. P., Vandenberg, D., Canal, R., et al., "Commission 35: Stellar Constitution: (Constitution Des Etoiles)", 2000IAUTA..24..201Z [ADS](#)
- Cram, L., Barbuy, B., Gerbaldi, M., et al., "Division IV: Stars: (Etoiles)", 2000IAUTA..24..173C [ADS](#)
- Kiraga, M., Jahn, K., Różyczka, M., Stępień, K., & Zahn, J. P., "Mixing by internal waves beneath the convection zone- comparison with analytical models", 2000IAUJD...5E..24K [ADS](#)
- Stavinschi, M. & Zahn, J.-P., "Preface (Advances in solar research at eclipses from ground and from space)", 2000ASIC..558D..7S [ADS](#)
- Zahn, J. P., "What we know about the solar interior", 2000ASIC..558..265Z [ADS](#)
- , "Advances in solar research at eclipses from ground and from space", 2000ASIC..558....Z [ADS](#)
- Brun, A. S., Turck-Chièze, S., & Zahn, J. P., "Standard Solar Models in the Light of New Helioseismic Constraints. II. Mixing below the Convective Zone", 1999ApJ...525.1032B [ADS](#)
- Kumar, P., Talon, S., & Zahn, J.-P., "Angular Momentum Redistribution by Waves in the Sun", 1999ApJ...520..859K [ADS](#)
- Collin, S. & Zahn, J.-P., "Star Formation in Accretion Disks Around Massive Black Holes and Pregalactic Enrichment", 1999Ap&SS.265..501C [ADS](#)
- Richard, D. & Zahn, J.-P., "Turbulence in differentially rotating flows. What can be learned from the Couette-Taylor experiment", 1999A&A...347..734R [ADS](#)
- Collin, S. & Zahn, J.-P., "Star formation and evolution in accretion disks around massive black holes.", 1999A&A...344..433C [ADS](#)
- Zahn, J.-P.: 1999, *Turbulence and differentially rotating flows*, Presented at the KITP Program: Black Hole Astrophysics, Feb 12, 1999, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.51 1999bha..progE..51Z [ADS](#)

- Collin, S. & Zahn, J. P., "Star Formation in Accretion Disks Around Massive Black Holes and Pregalactic Enrichment", 1999gecd.conf..501C [ADS](#)
 Zahn, J.-P. & Stavinschi, M., "Advances in solar research at eclipses from ground and from space", 1999RoAJ....9S....Z [ADS](#)
 Collin, S. & Zahn, J. P., "Accretion Disks and Star Formation", 1999IAUS..194..246C [ADS](#)
 Brun, A. S., Turck-Chièze, S., & Zahn, J. P., "Mixing Below the Solar Convective Zone", 1999ASPC..173..293B [ADS](#)
 Kiraga, M., Zahn, J. P., Stępień , K., et al., "Hydrodynamical Simulations of Penetrative Convection and Generation of Internal Gravity Waves", 1999ASPC..173..269K [ADS](#)
 Zahn, J. P., "Beyond the Mixing-Length Treatment: Why and How?", 1999ASPC..173..121Z [ADS](#)
 Maeder, A. & Zahn, J.-P., "Stellar evolution with rotation. III. Meridional circulation with MU-gradients and non-stationarity", 1998A&A...334..1000M [ADS](#)
 Zahn, J.-P., "Macroscopic Transport Large-scale advection, turbulent diffusion, wave transport", 1998SSRv...85..79Z [ADS](#)
 Zahn, J. P., "Macroscopic Transport", 1998sce..conf...79Z [ADS](#)
 Michaud, G. & Zahn, J. P., "Turbulent Transport in Stellar Interiors", 1998ThCFD..11..183M [ADS](#)
 Brun, A. S., Turck-Chièze, S., & Zahn, J. P., "Macroscopic Processes in the Solar Interior", 1998ESASP.418..439B [ADS](#)
 Talon, S. & Zahn, J.-P., "Gravity Waves and the Evolution of the Solar Rotation Profile", 1998ASPC..154..806T [ADS](#)
 Talon, S. & Zahn, J.-P., "Towards a hydrodynamical model predicting the observed solar rotation profile", 1998A&A...329..315T [ADS](#)
 Zahn, J. P., "Rotation and angular momentum transport", 1997ASSL..225..187Z [ADS](#)
 Zahn, J. P., Talon, S., & Matias, J., "Angular momentum transport by internal waves in the solar interior", 1997A&A...322..320Z [ADS](#)
 Talon, S., Zahn, J. P., Maeder, A., & Meynet, G., "Rotational mixing in early-type stars: the main-sequence evolution of a 9M_sun star", 1997A&A...322..209T [ADS](#)
 Talon, S. & Zahn, J. P., "Anisotropic diffusion and shear instabilities", 1997A&A...317..749T [ADS](#)
 Zahn, J. P., "Stellar rotation and mixing", 1997IAUS..181..175Z [ADS](#)
 Rieutord, M. & Zahn, J.-P., "Ekman Pumping and Tidal Dissipation in Close Binaries: A Refutation of Tassoul's Mechanism", 1997ApJ...474..760R [ADS](#)
 Spiegel, E. A. & Zahn, J.-P.: 1996, *Chaotic Dynamics of the Solar Cycle*, Technical Report, Columbia Univ. New York, NY United States 1996cuny.rept.....S [ADS](#)
 Catala, C., Auvergne, M., Baglin, A., et al., "Corot: a Space Project Devoted to the Study of Convection and Rotation in Stars", 1995ESASP.376b.549C [ADS](#)
 Rieutord, M. & Zahn, J. P., "Turbulent plumes in stellar convective envelopes", 1995A&A...296..127R [ADS](#)
 Benest, D., Froeschle, C., Gouguenheim, L., et al.: 1995, *Le monde des étoiles* 1995lnde.book....B [ADS](#)
 Zahn, J. P., "Lithium depletion in late-type stars through wind-driven mixing", 1995MmSAT..66..485Z [ADS](#)
 Zahn, J.-P., "Transport processes in stellar interiors", in I. W. Roxburgh and J.-L. Masnou (Eds.), Particle Physics and Astrophysics, Vol. 458, 153 1995LNP...458..153Z [ADS](#)
 Morel, P., Provost, J., Berthomieu, G., Matias, J., & Zahn, J. P., "Lithium Depletion in the Sun", 1995LIACo..32..395M [ADS](#)
 Provost, J., Morel, P., Berthomieu, G., & Zahn, J. P., "Convective Penetration in the Sun in Presence of Microscopic Diffusion", 1995LIACo..32..201P [ADS](#)
 Zahn, J. P., "Convective Penetration", 1995LIACo..32..111Z [ADS](#)
 Zahn, J. P., "Lithium depletion in late type stars through wind-driven mixing", 1995HiA....10..461Z [ADS](#)
 Catala, C., Mangeney, A., Gautier, D., et al., "COROT: A Proposal to Study Stellar Convection and Internal Rotation", 1995ASPC..76..426C [ADS](#)
 Cayrel de Strobel, G., Cayrel, R., Friel, E., Zahn, J. P., & Bentolila, C., "A case study of the quadruple system ξ Ursae Majoris: its activity and lithium depletion", 1994A&A...291..505C [ADS](#)
 Zahn, J. P., "Rotation and lithium depletion in late-type binaries", 1994A&A...288..829Z [ADS](#)
 Zahn, J. P., "Mixing processes and stellar evolution.", 1994ems..conf..285Z [ADS](#)
 Hurlburt, N. E., Toomre, J., Massaguer, J. M., & Zahn, J.-P., "Penetration below a Convection Zone", 1994ApJ...421..245H [ADS](#)
 Zahn, J. P., "Structure and evolution of massive stars: mixing processes and stellar evolution", 1993SSRv...66..285Z [ADS](#)
 , "Astrophysical Fluid Dynamics. Les Houches Session LXVII", 1993asfd.conf.....Z [ADS](#)
 Zahn, J. P., "Instabilities and turbulence in rotating stars.", 1993afcd..conf..561Z [ADS](#)
 , "Astrophysical fluid dynamics.", 1993afcd..conf.....Z [ADS](#)
 Zahn, J.-P., "Turbulence in stellar interiors.", 1993ASPC...40..236Z [ADS](#)
 Berthomieu, G., Morel, P., Provost, J., & Zahn, J. P., "Seismological constraints on convective penetration in the Sun.", 1993ASPC...40..60B [ADS](#)
 Zahn, J. P., "Circulation and turbulence in rotating stars.", 1992A&A...265..115Z [ADS](#)
 Spiegel, E. A. & Zahn, J. P., "The solar tachocline.", 1992A&A...265..106S [ADS](#)
 Charbonnel, C., Vauclair, S., & Zahn, J. P., "Rotation-induced mixing and lithium depletion in galactic clusters.", 1992A&A...255..191C [ADS](#)
 Zahn, J. P., "Present state of the tidal theory.", 1992btsf.work..253Z [ADS](#)
 Goupil, M. J., Zahn, J. P., & de Jager, C., "Book-Review - Rotation and Mixing in Stellar Interiors", 1992SSRv...59..410G [ADS](#)
 Spiegel, E. A. & Zahn, J. P., "The Turbulent Tachycline", 1992ASPC...26..188S [ADS](#)
 Berthomieu, G., Morel, P., Provost, J., & Zahn, J. P., "Convective Penetration in the Sun", 1992ASPC...26..158B [ADS](#)
 Chaboyer, B. & Zahn, J. P., "Effect of horizontal turbulent diffusion on transport by meridional circulation.", 1992A&A...253..173C [ADS](#)
 Zahn, J. P., "Convective penetration in stellar interiors.", 1991A&A...252..179Z [ADS](#)
 Zahn, J. P., "On the Nature of Disk Viscosity.", 1991sepa.conf...87Z [ADS](#)
 Zahn, J.-P., "Convective Penetration into Stellar Radiation Zones", in D. Gough and J. Toomre (Eds.), Challenges to Theories of the Structure of Moderate-Mass Stars, Vol. 388, 225 1991LNP...388..225Z [ADS](#)
 Rieutord, M. & Zahn, J.-P., "Large scale convection in stars : Towards a model for the action of coherent structures", in I. Tuominen, D. Moss, and G. Rüdiger (Eds.), IAU Colloq. 130: The Sun and Cool Stars. Activity, Magnetism, Dynamos, Vol. 380, 33 1991LNP...380..33R [ADS](#)
 Zahn, J.-P., "Convection and Turbulence in Stars", in C. B. De Loore (Ed.), Late Stages of Stellar Evolution. Computational Methods in Astrophysical Hydrodynamics, Vol. 373, 355 1991LNP...373..355Z [ADS](#)
 Zahn, J. P., "Turbulent shear flow and rotation", in F. Sánchez and M. Vázquez (Eds.), New Windows to the Universe, 291 1990nwus.book..291Z [ADS](#)
 Zahn, J.-P., "Conclusion", in M.-J. Goupil and J.-P. Zahn (Eds.), Rotation and Mixing in Stellar Interiors, Vol. 366, 183 1990LNP...366..183Z [ADS](#)
 Zahn, J.-P., "Turbulent Transport in Stellar Radiation Zones: Causes and Effects", in M.-J. Goupil and J.-P. Zahn (Eds.), Rotation and Mixing in Stellar Interiors, Vol. 366, 141 1990LNP...366..141Z [ADS](#)
 Goupil, M.-J. & Zahn, J.-P.: 1990, *Rotation and Mixing in Stellar Interiors*, Vol. 366 1990LNP...366.....G [ADS](#)
 Zahn, J.-P., "Theory of Transport Processes", 1990ASSL..159..425Z [ADS](#)
 Zahn, J. P. & Bouchet, L., "Tidal evolution of close binary stars. II. Orbital circularization of late-type binaries.", 1989A&A...223..112Z [ADS](#)
 Zahn, J. P., "Tidal evolution of close binary stars. I - Revisiting the theory of the equilibrium tide", 1989A&A...220..112Z [ADS](#)
 Zahn, J.-P., "Open problems in modeling the solar and stellar environment.", 1989mse..proc..119Z [ADS](#)
 Zahn, J. P., "Solar and Stellar Convection", in E.-H. Schröter and M. Schüssler (Eds.), Solar and Stellar Physics, Vol. 292, 55 1987LNP...292..55Z [ADS](#)
 Zahn, J. P., "Turbulent transport in the radiative zone of a rotating star", 1987ASSL..137..201Z [ADS](#)
 Zahn, J. P., "Instabilities due to convection and rotation", 1987ASSL..136..143Z [ADS](#)
 Zahn, J. P., "Hydrodynamics in Stars", 1986MitAG..67..163Z [ADS](#)
 Rösch, J., Wlérick, G., Guibert, J., et al.: 1985, *Astronomie Flammarion*, Vols. 1+2. 1985afv..book....R [ADS](#)
 Massaguer, J. M., Latour, J., Toomre, J., & Zahn, J. P., "Penetrative cellular convection in a stratified atmosphere", 1984A&A...140....1M [ADS](#)
 Cox, A. N., Vauclair, S., & Zahn, J. P., "Book-Review - Astrophysical Processes in Upper Main Sequence Stars", 1984S&T...67Q.526C [ADS](#)
 Cox, A., Vauclair, S., & Zahn, J. P., "Book-Review - Astrophysical Processes in Upper Main Sequence Stars - Saas-Fee 13TH - 1983MAR", 1984Mercu..13..93C [ADS](#)
 Zahn, J. P., "Introductory report : Stability of Rotation Laws", 1984LIACo..25..407Z [ADS](#)
 Zahn, J. P., "Tidal Effects in Close Binary Stars", 1984IAUS..105..379Z [ADS](#)
 Zahn, J. P., "Circulation méridienne dans les étoiles.", 1983ihaa.conf..409Z [ADS](#)
 Zahn, J. P., "Les instabilités dues à la rotation.", 1983ihaa.conf..389Z [ADS](#)
 Zahn, J. P., "Instability and Mixing Processes in Upper Main Sequence Stars", 1983apum.conf..253Z [ADS](#)
 , "Astrophysical process in upper main sequence stars", 1983apum.conf.....C [ADS](#)

- Latour, J., Toomre, J., & Zahn, J. P., "Nonlinear Anelastic Modal Theory for Solar Convection", 1983SoPh...82..387L [ADS](#)
- Zahn, J. P., "Un télescope pour les amateurs au Pic-du-Midi.", 1983LAstr..97..27Z [ADS](#)
- Ne'Eman, Y., Zahn, J. P., Habing, H. J., et al., "Book reviews", 1982SSRv...33..459N [ADS](#)
- Zahn, J. P., Toomre, J., & Latour, J., "Nonlinear modal analysis of penetrative convection", 1982GApFD..22..159Z [ADS](#)
- Swinney, H. L., Gollub, J. P., & Zahn, J. P., "Book-Review - Hydrodynamic Instabilities and the Transition to Turbulence", 1982SSRv...33R.459S [ADS](#)
- Latour, J., Toomre, J., & Zahn, J. P., "Stellar convection theory. III - Dynamical coupling of the two convection zones in A-type stars by penetrative motions", 1981ApJ...248.1081L [ADS](#)
- Toomre, J., Latour, J., & Zahn, J. P., "Nonlinear Anelastic Models of Solar Convection", 1981BAAS...13Q.907T [ADS](#)
- Auvergne, M., Baglin, A., Ducatel, D., et al.: 1981, Workshop on pulsating B stars. Proceedings of a workshop held at Nice Observatory, June 1 - 5, 1981. (Centenaire de l'Observatoire de Nice 1881 - 1981). 1981wopb.book.....A [ADS](#)
- Clorennec, A., Feldman, R., Zahn, J. P., & Willemse, H.: 1981, Cent ans d'astronomie à l'Observatoire de Nice 1881 - 1981. 1981cad..book.....C [ADS](#)
- Zahn, J. P., "Convection zones in sun and stars.", 1981ASIC...68..123Z [ADS](#)
- Zahn, J.-P., "Pulsating Stars. (Book Reviews: Theory of Stellar Pulsation)", 1980Sci...210.1119Z [ADS](#)
- Toomre, J., Latour, J., & Zahn, J. P., "Anelastic Modal Theory Applied to the Solar Convection Zone", 1980BAAS...12..895T [ADS](#)
- Massaguer, J. M. & Zahn, J. P., "Cellular convection in a stratified atmosphere", 1980A&A...87..315M [ADS](#)
- Zahn, J. P., "Stellar convection theory",, in D. F. Gray and J. L. Linsky (Eds.), IAU Colloq. 51: Stellar Turbulence, Vol. 114, 1–14 1980LNP...114..1Z [ADS](#)
- Toomre, J., Latour, J., & Zahn, J. P., "Compressible Convection in the Outer Envelope of A-type Stars", 1978BAAS...10..677T [ADS](#)
- Latour, J. & Zahn, J. P., "On the boundary conditions imposed by a stratified fluid", 1978GApFD..10..311L [ADS](#)
- Zahn, J. P. & Baglin, A., "Défense du site de l'observatoire.", 1978BONic..13..25Z [ADS](#)
- Zahn, J. P., "Tidal friction in close binary systems.", 1977A&A...57..383Z [ADS](#)
- Toomre, J., Latour, J., & Zahn, J. P., "Anelastic Stellar Convection Theory Applied to A-type Stars.", 1977BAAS....9..337T [ADS](#)
- Zahn, J. P., "Penetrative convection in stars",, in E. A. Spiegel and J. P. Zahn (Eds.), Problems of Stellar Convection, Vol. 71, 225–234 1977LNP....71..225Z [ADS](#)
- Spiegel, E. A. & Zahn, J. P.: 1977, Problems of stellar convection, Vol. 71 1977LNP....71.....S [ADS](#)
- Toomre, J., Zahn, J. P., Latour, J., & Spiegel, E. A., "Stellar convection theory. II. Single-mode study of the second convection zone in an A-type star.", 1976ApJ...207..545T [ADS](#)
- Latour, J., Spiegel, E. A., Toomre, J., & Zahn, J. P., "Stellar convection theory. I. The anelastic modal equations.", 1976ApJ...207..233L [ADS](#)
- Latour, J., Spiegel, E. A., Toomre, J., & Zahn, J. P., "The Second Convection Zone in an A-type Star", 1975BAAS....7..526L [ADS](#)
- Zahn, J. P., "The dynamical tide in close binaries.", 1975A&A...41..329Z [ADS](#)
- Zahn, J. P., "Differential Rotation and Turbulence in Stars", 1975MSRSL...8..31Z [ADS](#)
- Zahn, J. P., "Rotational Instabilities and Stellar Evolution", 1974IAUS...59..185Z [ADS](#)
- Zahn, J. P., "Pleading for Hydrodynamics", 1972oss..conf..371Z [ADS](#)
- Zahn, J. P., "Sur la rotation des étoiles doubles serrées.", 1972CRASB.274.1443Z [ADS](#)
- Spiegel, E. A. & Zahn, J. P., "Instabilities of Differential Rotation", 1970CoASP...2..178S [ADS](#)
- Zahn, J. P., "Forced Oscillations in Close Binaries. The Adiabatic Approximation", 1970A&A....4..452Z [ADS](#)
- Zahn, J. P., "Appel aux observateurs", 1969LAstr..83..114Z [ADS](#)
- Zahn, J. P., "Possible Effects of the Resonance in Close Binaries on their Mass Exchanges", 1969ASSL...13..267Z [ADS](#)
- Zahn, J. P., "On Possible Non-Radial Pulsations of Baker's One-Zone Model", 1968ApL....1..209Z [ADS](#)
- Zahn, J. P., "Internal structure and evolutionary changes in binaries: Causes possibles d'évolution homogène des binaires serrées", 1967oeds.conf..124Z [ADS](#)
- Zahn, J. P., "Internal structure and evolutionary changes in binaries: Variation des éléments orbitaux sous l'influence des marées", 1967oeds.conf..108Z [ADS](#)
- Zahn, J. P., "Les éruptions solaires", 1966LAstr..80..359Z [ADS](#)
- Zahn, J. P., "Les marées dans une étoile double serrée (suite et fin)", 1966AnAp...29..565Z [ADS](#)
- Zahn, J. P., "Les marées dans une étoile double serrée (suite)", 1966AnAp...29..489Z [ADS](#)
- Zahn, J. P., "Les marées dans une étoile double serrée", 1966AnAp...29..313Z [ADS](#)
- Marin, M. & Zahn, J. P., "Éclipse de Lune du 19 décembre 1964", 1965LAstr..79..326M [ADS](#)
- Marin, M. & Zahn, J. P., "L'éclipse de Lune des 24 et 25 juin 1964", 1965LAstr..79..14M [ADS](#)
- Zahn, J. P., "L'âge des étoiles", 1964LAstr..78..457Z [ADS](#)
- Coupinot, G. & Zahn, J. P., "Préparons-nous à observer la prochaine éclipse de Lune", 1964LAstr..78..148C [ADS](#)
- Coupinot, G. & Zahn, J. P., "Préparons-nous à observer la prochaine éclipse de Lune", 1964LAstr..78..97C [ADS](#)
- Zahn, J. P., "Cinq jeunes suivent un stage à l'Observatoire de Nice", 1964LAstr..78..96Z [ADS](#)
- Zahn, J. P., "Appel aux Jeunes", 1964LAstr..78..64Z [ADS](#)
- Zahn, J. P., "Le magnétisme stellaire", 1963LAstr..77..313Z [ADS](#)
- Hannorat, M. & Zahn, J. P., "Autres observations de l'éclipse partielle de Lune des 15-16 juillet 1954", 1954LAstr..68..384H [ADS](#)
- Pollachi, L. G., Porret, R., Weber, R., et al., "L'éclipse partielle de Soleil du 30 juin 1954", 1954LAstr..68..372P [ADS](#)