

Bibliography from ADS file: stix.bib

September 14, 2022

- Stix, M., "Solar Global Parameters; Solar Interior", 2009LanB...4B....1S [ADS](#)
- Stix, M., "Book Review", 2008GApFD.102..541S [ADS](#)
- Roth, M. & Stix, M., "Meridional Circulation and Global Solar Oscillations", 2008SoPh..251...77R [ADS](#)
- Roth, M. & Stix, M., "Meridional Circulation and Global Solar Oscillations", 2008ESPM..12..3.1R [ADS](#)
- Käpylä, P. J., Korpi, M. J., Stix, M., & Tuominen, I., "Effects of rotation and input energy flux on convective overshooting", 2007IAUS..239..437K [ADS](#)
- Hupfer, C., Käpylä, P. J., & Stix, M., "Reynolds stresses and meridional circulation from rotating cylinder simulations", 2006A&A...459..935H [ADS](#)
- Käpylä, P. J., Korpi, M. J., Ossendrijver, M., Stix, M., & Tuominen, I., "Alpha-Effect and Turbulent Pumping In The Rapid Rotation Regime - Implications For Solar Dynamo Models", 2006IAUD..8E..46K [ADS](#)
- Käpylä, P. J., Korpi, M. J., Ossendrijver, M., & Stix, M., "Magnetohydrodynamics and dynamo coefficients. III. α -effect and magnetic pumping in the rapid rotation regime", 2006A&A...455..401K [ADS](#)
- Dobler, W., Stix, M., & Brandenburg, A., "Magnetic Field Generation in Fully Convective Rotating Spheres", 2006ApJ...638..336D [ADS](#)
- Käpylä, P. J., Korpi, M. J., Stix, M., & Tuominen, I., "Local models of stellar convection. II. Rotation dependence of the mixing length relations", 2005A&A...438..403K [ADS](#)
- Hupfer, C., Käpylä, P., & Stix, M., "Reynolds stresses - dependence on latitude", 2005AN....326..223H [ADS](#)
- Stix, M., "Dynamics of the Sun, Stars, and Planets - Preface", 2005AN....326..155S [ADS](#)
- Stix, M., "Book review", 2005GApFD..99..431S [ADS](#)
- Stix, M. & Zhugzhda, Y. D., "On the effect of convection on solar p modes", 2004A&A...418..305S [ADS](#)
- Stix, M., "Tube waves: Exact and approximate", 2004A&A...415..751S [ADS](#)
- Stix, M.: 2004b, *The sun : an introduction* 2004sun.book.....S [ADS](#)
- Stix, M., "Helioseismology (With 12 Figures)", 2004RvMA...17..51S [ADS](#)
- Käpylä, P. J., Korpi, M. J., Ossendrijver, M., & Stix, M., "What can we learn from Local Convection Simulations in the Context of mean Field Models of Stellar Rotation and Magnetism?", 2003ANS...324..63K [ADS](#)
- Roth, M. & Stix, M., "Time-dependent coupling of solar oscillations", 2003A&A...405..779R [ADS](#)
- Stix, M., "On the time scale of energy transport in the sun", 2003SoPh..212...3S [ADS](#)
- Ossendrijver, M., Stix, M., Brandenburg, A., & Rüdiger, G., "Magnetohydrodynamics and dynamo coefficients. II. Field-direction dependent pumping of magnetic field", 2002A&A...394..735O [ADS](#)
- Müller, D. A. N., Schlichenmaier, R., Steiner, O., & Stix, M., "Spectral signature of magnetic flux tubes in sunspot penumbrae", 2002A&A...393..305M [ADS](#)
- Stix, M., "Sunspots: What is interesting?", 2002AN....323..178S [ADS](#)
- Müller, D. A. N., Schlichenmaier, R., Steiner, O., & Stix, M., "Net circular polarization of sunspot penumbrae - symmetry breaking by anomalous dispersion", 2002ESASP.508..141M [ADS](#)
- Stix, M.: 2002, *The sun: an introduction* 2002tsai.book.....S [ADS](#)
- Schlichenmaier, R., Müller, D. A. N., Steiner, O., & Stix, M., "Net circular polarization of sunspot penumbrae. Symmetry breaking through anomalous dispersion", 2002A&A...381L..77S [ADS](#)
- Stix, M., "Physics of the solar dynamo: Outstanding problems", 2001A&AT...20..417S [ADS](#)
- Stix, M., "Joint 9th European and 5th national astronomical meeting (Jenam-2000), European astronomy at the turn of the millennium", 2001A&AT...20..415S [ADS](#)
- Ossendrijver, M., Stix, M., & Brandenburg, A., "Magnetohydrodynamics and dynamo coefficients: Dependence of the alpha effect on rotation and magnetic field", 2001A&A...376..713O [ADS](#)
- Küker, M. & Stix, M., "Differential rotation of the present and the pre-main-sequence Sun", 2001A&A...366..668K [ADS](#)
- Roth, M. & Stix, M., "Effect of time-dependent velocity fields on solar oscillations", 2001ESASP.464..243R [ADS](#)
- Stix, M., "Sun: Basic Properties", in P. Murdin (Ed.), Encyclopedia of Astronomy and Astrophysics, 1977 2000eaa..bookE1977S [ADS](#)
- Stix, M., "Modulation of Acoustic Waves by Solar Convection", 2000SoPh..196...19S [ADS](#)
- Kiefer, M., Stix, M., & Balthasar, H., "Wave modulation and wave sources in the solar convection zone", 2000A&A...359.1175K [ADS](#)
- Roth, M. & Stix, M., "Solar Oscillation Transitions in Time-Dependent Perturbation Theory", 2000SPD....31.0110R [ADS](#)
- Kiefer, M., Grabowski, U., Mattig, W., & Stix, M., "Convective overshooting on the Sun: radiative effects", 2000A&A...355..381K [ADS](#)
- Foukal, P., Solanki, S., Mariska, J., et al., "Commission 12: Solar Radiation and Structure (Radiation et Structure Solaires)", 2000IAUTA..24..73F [ADS](#)
- Roth, M. & Stix, M., "Coupling of solar p modes: quasi-degenerate perturbation theory", 1999A&A...351.113R [ADS](#)
- Stix, M., "Jagd auf die Sonnen-Neutrinos.", 1999S&WSp...4..98S [ADS](#)
- Schleicher, H. & Stix, M., "Die Sonne im Computer.", 1999A&R....36Q..4S [ADS](#)
- Schmidt, W., Stix, M., & Wöhl, H., "Center-to-limb variation of the solar oscillation. New results from MDI data", 1999A&A...346..633S [ADS](#)
- Schleicher, H. & Stix, M., "Ein Blick in das Innere der Sonne.", 1999A&R....36S..8S [ADS](#)
- Roth, M. & Stix, M., "Coupling of Solar Oscillations in Quasi-Degenerate Perturbation Theory", 1999AGAb...15..92R [ADS](#)
- Stix, M. & Zhugzhda, Y. D., "Waves in structured media: non-radial solar P modes", 1998A&A...335..685S [ADS](#)
- Stix, M. & Kiefer, M., "Solar models with convective overshoot", 1997ASSL..225..69S [ADS](#)
- Zhugzhda, Y. & Stix, M., "Comments on the "analytic theory of P modes" by Dzhalilov and Staude.", 1997A&A...322..98Z [ADS](#)
- Stix, M., "Kiepenheuer-Institut für Sonnenphysik. Jahresbericht für 1996.", 1997MitAG..80..177S [ADS](#)
- Soltau, D., Acton, D. S., Kentischer, T., et al., "Adaptive Optics at the German VTT on Tenerife", 1997ASPC..118..351S [ADS](#)
- Stix, M., "The depth of the solar convection zone: two models with overshoot.", 1996NAWG.1996..230S [ADS](#)
- Schüssler, M., Caligari, P., Ferriz-Mas, A., Solanki, S. K., & Stix, M., "Distribution of starspots on cool stars. I. Young and main sequence stars of IM_sun.", 1996A&A...314..503S [ADS](#)
- Stix, M. & Zhugzhda, Y. D., "Wave propagation in inhomogeneous media: shifts of solar p -mode frequencies.", 1996AGAb...12..166S [ADS](#)
- Stix, M., "Kiepenheuer-Institut für Sonnenphysik. Jahresbericht für 1995.", 1996MitAG..79..173S [ADS](#)
- Caligari, P., Schüssler, M., Solanki, S. K., Schaerer, D., & Stix, M., "Flux Tube Dynamics in Active Stars", 1996ApL&C..34..17C [ADS](#)
- Stix, M. & Zhugzhda, Y. D., "Wave trapping in intergranular lanes", 1996ASPC..109..163S [ADS](#)
- Soltau, D., Acton, D. S., Kentischer, T., et al., "Adaptive optics for a 70 cm solar telescope.", 1996AGAb...12..92S [ADS](#)
- Schlüchenmaier, R. & Stix, M., "The phase of the radial mean field in the solar dynamo.", 1995A&A...302..264S [ADS](#)
- Stix, M., "Solar Models with Convective Overshoot", 1995somo.conf..171S [ADS](#)
- Stix, M., "Kiepenheuer-Institut für Sonnenphysik. Jahresbericht für 1994.", 1995MitAG..78..125S [ADS](#)
- Kiefer, M., Grabowski, U., & Stix, M., "Convective Efficiency and its Influence on Eigenfrequencies of the Sun", 1995LIACO..32..379K [ADS](#)
- Stix, M., "p-mode frequency corrections due to convection", 1995HiA...10..331S [ADS](#)
- Zhugzhda, Y. D. & Stix, M., "Acoustic Waves in Structured Media and Helioseismology", 1995ASPC...76..326Z [ADS](#)
- Zhugzhda, Y. D. & Stix, M., "Acoustic waves in structured media and helioseismology.", 1994A&A...291..310Z [ADS](#)
- Brandt, P. N., Stix, M., & Weinhardt, H., "Modelling Solar Irradiance Variations with an Area Dependent Photometric Sunspot Index", 1994SoPh..152..119B [ADS](#)
- Li, Y. & Stix, M., "The δ Scuti instability strip: effects of opacity enhancement and wave reflections", 1994A&A...286..815L [ADS](#)
- Ahrens, J., Stix, M., & Thorn, M., "On the Depletion of Lithium in the Sun", in J. N. Bahcall, J. Davis, R., P. Parker, A. Smirnov, and R. Ulrich (Eds.), Solar Neutrinos. The First Thirty Years, 61 1994snft.book...61A [ADS](#)
- Schlüchenmaier, R. & Stix, M., "The phase of the radial field in the solar dynamo", 1994smf..conf..107S [ADS](#)
- Schröter, E. H. & Stix, M., "Kiepenheuer-Institut für Sonnenphysik. Jahresbericht für 1993.", 1994MitAG..77..121S [ADS](#)
- Caligari, P., Schüssler, M., Stix, M., & Solanki, S. K., "Distribution of Magnetic Flux on the Surface of Rapidly Rotating Stars", 1994ASPC..64..387C [ADS](#)
- Stix, M., Rudiger, G., Knölker, M., & Grabowski, U., "Damping of solar p -mode oscillations. I. Radial modes with eddy viscosity", 1993A&A...272..340S [ADS](#)
- Ahrens, B., Stix, M., & Thorn, M., "On the depletion of lithium in the sun.", 1992A&A...264..673A [ADS](#)
- Stix, M., "Book-Review - the Sun - an Introduction", 1992S&T....83Q.173S [ADS](#)
- Ahrens, B., Stix, M., & Thorn, M., "Lithium depletion during the sun's pre-main-sequence phase.", 1992AGAb....7..147A [ADS](#)

- Stix, M., "Book-Review - the Sun - an Introduction", 1991Sci...254R1053S [ADS](#)
- Stix, M. & Ambroz, P., "Book-Review - the Sun - an Introduction", 1991BAICz..42..329S [ADS](#)
- Schmalz, S. & Stix, M., "An alpha-Omega dynamo with order and chaos", 1991A&A...245..654S [ADS](#)
- Stix, M. & Doyle, J. G., "Book-Review - the Sun - an Introduction", 1991IrAJ...20..495 [ADS](#)
- Stix, M.: 1991a, *The Sun, an Introduction* 1991sun..book.....S [ADS](#)
- Stix, M., "The solar dynamo", 1991GApFD..62..211S [ADS](#)
- Skaley, D. & Stix, M., "The overshoot layer at the base of the solar convection zone.", 1991A&A...241..227S [ADS](#)
- Stix, M. & Fritze, K., "Book-Review - the Sun", 1990AN....311..304S [ADS](#)
- Stix, M. & Skaley, D., "The equation of state and the frequencies of solar P modes.", 1990A&A...232..234S [ADS](#)
- Stix, M., "Book-Review - the Sun", 1989S&T....78..606S [ADS](#)
- Stix, M. & Mills, A. A., "Book-Review - the Sun - an Introduction", 1989JBAA...99..245S [ADS](#)
- Stix, M., "Book-Review - the Sun - an Introduction", 1989Sci...246..246S [ADS](#)
- Stix, M., "Eigenschwingungen der Sonne.", 1989PhyBl..45..146S [ADS](#)
- Stix, M.: 1989c, *The Sun, an Introduction* 1989sun..book.....S [ADS](#)
- Stix, M.: 1989d, *The sun, an introduction* 1989sai..book.....S [ADS](#)
- Stix, M., "The Sun's differential rotation.", 1989amts.conf..248S [ADS](#)
- Stix, M., "The Sun's Differential Rotation.", 1989RvMA....2..248S [ADS](#)
- Paulus, M. & Stix, M., "Electromagnetic core-mantle coupling: The fourier method for the solution of the induction equation", 1989GApFD..47..237P [ADS](#)
- Stix, M., "A review of: "Advances in Helio- and asteroseismology""", 1989GApFD..46..266S [ADS](#)
- Skaley, D. & Stix, M., "Solar oscillations: overshoot at the base of the convection zone.", 1988ESASP.286..525S [ADS](#)
- Nicklaus, B. & Stix, M., "Corrections to first order smoothing in mean-field electrodynamics", 1988GApFD..43..149N [ADS](#)
- Belvedere, G., Pidatella, R. M., & Stix, M., "Gray's constant and 'swiss cheese' and 'sea serpents' in stellar convection zones", 1987A&A...177..183B [ADS](#)
- Stix, M. & Knölker, M., "On the frequencies of solar oscillations.", 1987ppcs.work...67S [ADS](#)
- Stix, M., "On the Origin of Stellar Magnetism", in E.-H. Schröter and M. Schüssler (Eds.), Solar and Stellar Physics, Vol. 292, 15 1987LNP...292..15S [ADS](#)
- Stix, M., "On the origin of stellar magnetism", in E.-H. Schröter and M. Schüssler (Eds.), Solar and Stellar Physics, Vol. 292, 13–38 1987LNP...292..13S [ADS](#)
- Stix, M., "Models for a Differentially Rotating Solar Convection Zone", 1987ASSL..137..329S [ADS](#)
- Pidatella, R. M. & Stix, M., "Convective overshoot at the base of the sun's convection zone", 1986A&A...157..338P [ADS](#)
- Pidatella, R. M., Stix, M., Belvedere, G., & Paterno, L., "The role of inhomogeneous heat transport and anisotropic momentum exchange in the dynamics of stellar convection zones - Application to models of the sun's differential rotation", 1986A&A...156..22P [ADS](#)
- Paulus, M. & Stix, M., "Electromagnetic core-mantle coupling.", 1986ersu.conf..259P [ADS](#)
- Stix, M., "Schwankungen der Erdrotation und elektromagnetische Kern-Mantel-Kopplung.", 1985S&W....24..87S [ADS](#)
- Stix, M., "Zur Dynamotheorie des Erdmagnetfeldes.", 1985PhyBl..41..152S [ADS](#)
- Stix, M. & Roberts, P. H., "Time-dependent electromagnetic core-mantle coupling", 1984PEPI...36..49S [ADS](#)
- Pidatella, R. M., Stix, M., Belvedere, G., & Paterno, L., "Models of solar differential rotation.", 1984ESASP.220..33P [ADS](#)
- Knölker, M. & Stix, M., "Solar oscillations as an algebraic eigenvalue problem", 1984MmSAI..55..305K [ADS](#)
- Kaisig, M., Knölker, M., & Stix, M., "Solar Oscillations and the Equation of State", 1984LIACo..25..239K [ADS](#)
- Stix, M., "Sonnenmagnetismus: Beobachtungen und Theorie", 1984AN....305R.215S [ADS](#)
- Stix, M., "Solar Magnetism : Observation and Theory", 1984AN....305Q.215S [ADS](#)
- Stix, M., "Solar magnetism - Observation and theory", 1984AN....305..215S [ADS](#)
- Stix, M., "Helicity and alpha-effect of simple convection cells", 1983A&A...118..363S [ADS](#)
- Schmidt, W. & Stix, M., "Two comments of the sun's differential rotation", 1983A&A...118....1S [ADS](#)
- Stix, M., "Solar type dynamos in late main sequence stars", 1983spm..conf..197S [ADS](#)
- Knölker, M. & Stix, M., "A Convenient Method to Obtain Stellar Eigenfrequencies", 1983SoPh...82..331K [ADS](#)
- Knölker, M. & Stix, M., "Solare Oszillationen als algebraisches Eigenwertproblem", 1983MitAG..60..221K [ADS](#)
- Stix, M., "Die differentielle Rotation und der magnetische Zyklus der Sonne", 1983MitAG..60..95S [ADS](#)
- Stix, M., "Theoretical Problems - Solar and Stellar Magnetic Fields", 1983IAUS..102..509S [ADS](#)
- Stix, M., "A review of: "Solar magnetohydrodynamics""", 1983GApFD..24..327S [ADS](#)
- Stix, M., "On electromagnetic core-mantle coupling", 1982GApFD..21..303S [ADS](#)
- Stix, M., "The Rotation and the Magnetic Field of the Earth", 1982tfer.conf..98S [ADS](#)
- Knölker, M. & Stix, M., "Eine bequeme Methode zur Berechnung stellarer Eigenfrequenzen - Anwendungen auf Sonnenmodelle", 1982MitAG..55..138K [ADS](#)
- Stix, M., "The Rotation-Magnetism-Convection Coupling in the Sun (Invited Review Paper)", 1982ASSL..96..63S [ADS](#)
- Stix, M., "Theory of the Solar Cycle", 1981SoPh...74..79S [ADS](#)
- Stix, M., "Stellar Activity Cycles", 1981siwn.conf..191S [ADS](#)
- Stix, M.: 1981c, 1981siwn.conf...25S [ADS](#)
- Stix, M., "Magnetische Zyklen bei späten Hauptreihensternen", 1981MitAG..52..148S [ADS](#)
- Stix, M., "Screening effects in the solar convection zone", 1981A&A....93..339S [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Magnetic cycles of lower main sequence stars", 1980A&A....91..328B [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Differential rotation along the lower main sequence - A theoretical investigation", 1980A&A....88..240B [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Dynamo action of a mean flow caused by latitude-dependent heat transport", 1980A&A....86..40B [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Differential Rotation and Magnetic Activity of the Lower Main Sequence Stars", in D. F. Gray and J. L. Linsky (Eds.), IAU Colloq. 51: Stellar Turbulence, Vol. 114, 296 1980LNP...114..296B [ADS](#)
- Walder, M., Deinzer, W., & Stix, M., "Dynamo action associated with random waves in a rotating stratified fluid", 1980JFM....96..207W [ADS](#)
- Stix, M., "Large-scale Velocity Fields on the Sun", 1980HiA.....5..71S [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Differential rotation set up by latitude-dependent heat transport (stellar rotation)", 1980GApFD..14..209B [ADS](#)
- Stix, M., "How does the small-scale velocity field affect the dynamo problem?", 1979ssms.conf...87S [ADS](#)
- Stix, M., "Dynamo theory and the solar cycle.", 1979psa..conf..143S [ADS](#)
- Belvedere, G., Paternò, L., & Stix, M., "Un modello del ciclo magnetico solare basato sull' interazione convezione-rotazione e sull' effetto alpha .", 1979RSAI...22..153B [ADS](#)
- Belvedere, G., Paternò, L., & Stix, M., "Der solare Dynamo als Test für die Theorie der Sonnenrotation", 1979MitAG..45..150B [ADS](#)
- Wälder, M., Deinzer, W., & Stix, M., "Dynamowirkung von Schall- und Schwerewellen in geschichteten, rotierenden Atmosphären", 1979MitAG..45..95W [ADS](#)
- Benton, E. R., Muth, L. A., & Stix, M., "Magnetic contour maps at the core-mantle boundary.", 1979JGG....31..615B [ADS](#)
- Belvedere, G., Paterno, L., & Stix, M., "Differential rotation set up by latitude-dependent heat transport", 1979GApFD..14..209B [ADS](#)
- Stix, M., "Erratum: "The galactic dynamo" [Astron. Astrophys., Vol. 42, p. 85 - 89 (1975)].", 1978A&A...68..459S [ADS](#)
- Stix, M., "The Solar Dynamo", 1978pfsl.conf...37S [ADS](#)
- Stix, M., "Coronal holes and the large-scale solar magnetic field.", 1977A&A....59..73S [ADS](#)
- Altschuler, M. D., Levine, R. H., Stix, M., & Harvey, J., "High resolution mapping of the magnetic field of the solar corona.", 1977SoPh...51..345A [ADS](#)
- Stix, M., "Koronale Löcher und das solare Magnetfeld", 1977MitAG..42..119S [ADS](#)
- Stix, M., "Planetary dynamos.", 1977JGZG...43..695S [ADS](#)
- Roberts, P. H. & Stix, M., "On Vainshtein's simplest dynamo instability", 1976PEPI...12P..19R [ADS](#)
- Stix, M., "Differential rotation and the solar dynamo.", 1976A&A...47..243S [ADS](#)
- Stix, M., "Die Sonne schwingt.", 1976S&W....15..187S [ADS](#)

- Stix, M., "Solare Magnetogramme und die Rotation der Konvektionszone", 1976MitAG..40..159S [ADS](#)
- Newkirk, G., Dunn, R. B., Mehltretter, P., et al., "Solar activity (Activité solaire).", 1976IAUTA..16b..13N [ADS](#)
- Durney, B. R., Gilman, P. A., & Stix, M., "Summary of the Final Discussion on August 29", 1976IAUS...71..479D [ADS](#)
- Stix, M., "Dynamo Theory and the Solar Cycle", 1976IAUS...71..367S [ADS](#)
- Stix, M., "The galactic dynamo.", 1975A&A....42...85S [ADS](#)
- Stix, M., "Comments on the solar dynamo.", 1974A&A....37..121S [ADS](#)
- Deinzer, W., von Kusserow, H. U., & Stix, M., "Steady and Oscillatory aw-dynamos", 1974A&A....36...69D [ADS](#)
- Stix, M. & Wiehr, E., "On the Solar Magnetic 'Monopole'", 1974SoPh...37..493S [ADS](#)
- Stix, M. & Wöhl, H., "The Center-to-Limb Variation of the Photospheric Wave Spectrum", 1974SoPh...37..63S [ADS](#)
- Stix, M., "Spherical alpha-omega-Dynamos by a Variational Method", 1973A&A....24..275S [ADS](#)
- Deinzer, W., v. Kusserow, H. U., & Stix, M., "Gibt es auch stationäre $\alpha\omega$ -Dynamos?", 1973MitAG..34..155D [ADS](#)
- Schmidt, H. U. & Stix, M., "On the Nature and Origin of the Solar Five-Minute Oscillations", 1973MitAG..32..182S [ADS](#)
- Stix, M., "Non-Linear Dynamo Waves", 1972A&A....20....9S [ADS](#)
- Roberts, P. H. & Stix, M., "Ac-Effect Dynamos, by the Buliard-Geflman Formalism", 1972A&A....18..453R [ADS](#)
- Stix, M., "A Non-Axisymmetric a-Effect Dynamo", 1971A&A....13..203S [ADS](#)
- Deinzer, W. & Stix, M., "On the Eigenvalues of Krause-Steenbeck's Solar Dynamo", 1971A&A....12..111D [ADS](#)
- Stix, M., "On Radiative Relaxation of Chromospheric Oscillations", 1970A&A....4..189S [ADS](#)
- Stix, M., "Comment on a Paper of S. Kato and Y. Nakagawa on Generation of Magnetic Fields in Rotating Stars", 1970A&A....4..161S [ADS](#)
- Stix, M., "Chromosphärische Oszillationen und Strahlungsrelaxationen", 1968MitAG..25R.199S [ADS](#)