

Bibliography

- Abramenko, V.I., Fisk, L.A., and Yurchyshyn, V.B.: 2006, "The Rate of Emergence of Magnetic Dipoles in Coronal Holes and Adjacent Quiet-Sun Regions", *The Astrophysical Journal* **641**, L65.
- Acton, L., Tsuneta, S., Ogawara, Y., Bentley, R., Bruner, M., Canfield, R., and, ...: 1992, "The YOHKOH mission for high-energy solar physics", *Science* **258**, 618. doi:10.1126/science.258.5082.618.
- Adams, M., Sterling, A.C., Moore, R.L., and Gary, G.A.: 2014, "A Small-scale Eruption Leading to a Blowout Macrospicule Jet in an On-disk Coronal Hole", *The Astrophysical Journal* **783**, 11.
- Aimanova, G.K., Aimanov, A.K., and Guliaev, R.A.: 1982, "Study of the Brightness Distribution across Spicules from Observations of the Spicule Occultation by the Moon at the Partial Solar Eclipse", *Solar Physics* **79**, 323.
- Alzate, N., and Morgan, H.: 2016, "Jets, Coronal "Puffs," and a Slow Coronal Mass Ejection Caused by an Opposite-polarity Region within an Active Region Footpoint", *The Astrophysical Journal* **823**, 129.
- Antiochos, S.K., and Klimchuk, J.A.: 1991, "A Model for the Formation of Solar Prominences", *The Astrophysical Journal* **378**, 372.

- Archontis, V., and Török, T.: 2008, ‘‘Eruption of magnetic flux ropes during flux emergence’’, *Astronomy and Astrophysics* **492**, L35.
- Archontis, V., and Hood, A.W.: 2013, ‘‘A Numerical Model of Standard to Blowout Jets’’, *The Astrophysical Journal* **769**, L21.
- Aschwanden, M.J., Poland, A.I., and Rabin, D.M.: 2001, ‘‘The New Solar Corona’’, *Annual Review of Astronomy and Astrophysics* **39**, 175.
- Aschwanden, M.J.: 2004, ‘‘Physics of the Solar Corona. An Introduction’’, *Physics of the Solar Corona*.
- Asplund, M., Grevesse, N., Sauval, A.J., and Scott, P.: 2009, ‘‘The Chemical Composition of the Sun’’, *Annual Review of Astronomy and Astrophysics* **47**, 481.
- Aulanier, G., DeVore, C.R., and Antiochos, S.K.: 2002, ‘‘Prominence Magnetic Dips in Three-Dimensional Sheared Arcades’’, *The Astrophysical Journal* **567**, L97.
- Babcock, H.W.: 1961, ‘‘The Topology of the Sun’s Magnetic Field and the 22-YEAR Cycle.’’, *The Astrophysical Journal* **133**, 572.
- Bellot Rubio, L., and Orozco Suárez, D.: 2019, ‘‘Quiet Sun magnetic fields: an observational view’’, *Living Reviews in Solar Physics* **16**, 1.
- Benz, A.O., and Krucker, S.: 1998, ‘‘Heating Events in the Quiet Solar Corona’’, *Solar Physics* **182**, 349.
- Benz, A.O.: 2008, ‘‘Flare Observations’’, *Living Reviews in Solar Physics* **5**, 1.
- Berger, T.E., Rouppe van der Voort, L.H.M., Löfdahl, M.G., Carlsson, M., Fossum, A., Hansteen, V.H., Marthinussen, E., Title, A., and Scharmer, G.: 2004, ‘‘Solar magnetic elements at 0.1 arcsec resolution. General appearance and magnetic structure’’, *Astronomy and Astrophysics* **428**, 613.

- Berger, T.E., Rouppe van der Voort, L., and Löfdahl, M.: 2007, "Contrast Analysis of Solar Faculae and Magnetic Bright Points", *The Astrophysical Journal* **661**, 1272.
- Berger, T.E., Shine, R.A., Slater, G.L., Tarbell, T.D., Title, A.M., Okamoto, T.J., Ichimoto, K., Katsukawa, Y., Suematsu, Y., Tsuneta, S., Lites, B.W., and Shimizu, T.: 2008, "Hinode SOT Observations of Solar Quiescent Prominence Dynamics", *The Astrophysical Journal* **676**, L89.
- Berghmans, D., Clette, F., and Moses, D.: 1998, "Quiet Sun EUV transient brightenings and turbulence. A panoramic view by EIT on board SOHO", *Astronomy and Astrophysics* **336**, 1039.
- Boerner, P., Edwards, C., Lemen, J., Rausch, A., Schrijver, C., Shine, R., Shing, L., Stern, R., Tarbell, T., Title, A., Wolfson, C.J., Soufli, R., Spiller, E., and, ...: 2012, "Initial Calibration of the Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO)", *Solar Physics* **275**, 41.
- Bohlin, J.D., Frost, K.J., Burr, P.T., Guha, A.K., and Withbroe, G.L.: 1980, "Solar Maximum Mission", *Solar Physics* **65**, 5. doi:10.1007/BF00151380.
- Bonnet, R.M., Lemaire, P., Vial, J.C., Artzner, G., Gouttebroze, P., Jouchoix, A., and, ...: 1978, "The LPSP instrument on OSO 8. II. In-flight performance and preliminary results", *The Astrophysical Journal* **221**, 1032. doi:10.1086/156109.
- Bong, S.-C., Cho, K.-S., and Yurchyshyn, V.: 2014, "Kinematics of Solar Chromospheric Surges of AR 10930", *Journal of Korean Astronomical Society* **47**, 311.
- Bray, R.J., and Loughhead, R.E.: 1974, "The solar chromosphere", *The International Astrophysics Series*.
- Brueckner, G.E., Howard, R.A., Koomen, M.J., Korendyke, C.M., Michels, D.J., Moses, J.D., Socker, D.G., Dere, K.P., Lamy, P.L., Llebaria, A., Bout, M.V., Schwenn, R.,

- Simnett, G.M., and, ...: 1995, "The Large Angle Spectroscopic Coronagraph (LASCO)", *Solar Physics* **162**, 357.
- Canfield, R.C., Reardon, K.P., Leka, K.D., Shibata, K., Yokoyama, T., and Shimojo, M.: 1996, "H alpha Surges and X-Ray Jets in AR 7260", *The Astrophysical Journal* **464**, 1016.
- Carlsson, M.: 2007, "Modeling the Solar Chromosphere", *The Physics of Chromospheric Plasmas*, 49.
- Carmichael, H.: 1964, "A Process for Flares", *NASA Special Publication*, 451.
- Chae, J., Wang, H., Lee, C.-Y., Goode, P.R., and Schühle, U.: 1998, "Photospheric Magnetic Field Changes Associated with Transition Region Explosive Events", *The Astrophysical Journal* **497**, L109.
- Chae, J., Qiu, J., Wang, H., and Goode, P.R.: 1999, "Extreme-Ultraviolet Jets and H α Surges in Solar Microflares", *The Astrophysical Journal* **513**, L75.
- Chae, J., Wang, H., Qiu, J., Goode, P.R., Strous, L., and Yun, H.S.: 2001, "The Formation of a Prominence in Active Region NOAA 8668. I. SOHO/MDI Observations of Magnetic Field Evolution", *The Astrophysical Journal* **560**, 476.
- Chandra, R., Mandrini, C.H., Schmieder, B., Joshi, B., Cristiani, G.D., Cremades, H., Pariat, E., Nuevo, F.A., Srivastava, A.K., and Uddin, W.: 2017, "Blowout jets and impulsive eruptive flares in a bald-patch topology", *Astronomy and Astrophysics* **598**, A41.
- Chen, J., Howard, R.A., Brueckner, G.E., Santoro, R., Krall, J., Paswaters, S.E., St. Cyr, O.C., Schwenn, R., Lamy, P., and Simnett, G.M.: 1997, "Evidence of an Erupting Magnetic Flux Rope: LASCO Coronal Mass Ejection of 1997 April 13", *Astrophys. J.* **490**, L191.

- Chen, H.D., Jiang, Y.C., and Ma, S.L.: 2008, "Observations of H α surges and ultraviolet jets above satellite sunspots", *Astronomy and Astrophysics* **478**, 907.
- Chen, H., Jiang, Y., and Ma, S.: 2009, "An EUV Jet and H α Filament Eruption Associated with Flux Cancelation in a Decaying Active Region", *Solar Phys.* **255**, 79.
- Chen, P.F.: 2011, "Coronal Mass Ejections: Models and Their Observational Basis", *Living Reviews in Solar Physics* **8**, 1.
- Chen, J., Su, J., Yin, Z., Priya, T.G., Zhang, H., Liu, J., Xu, H., and Yu, S.: 2015, "Recurrent Solar Jets Induced by a Satellite Spot and Moving Magnetic Features", *Astrophys. J.* **815**, 71.
- Chen, H.-. dong ., Zhao, S.-. ging ., Li, Q.-. ying ., Ma, S.-I., Li, L.-. ping ., and Jiang, Y.-. chum .: 2006, "A study of the surges in solar active region AR0484 on 2003 October 22", *Chinese Astronomy and Astrophysics* **30**, 41.
- Cirtain, J.W., Golub, L., Lundquist, L., van Ballegooijen, A., Savcheva, A., Shimojo, M., DeLuca, E., Tsuneta, S., Sakao, T., Reeves, K., Weber, M., Kano, R., Narukage, N., and, ...: 2007, "Evidence for Alfvén Waves in Solar X-ray Jets", *Science* **318**, 1580.
- Cowling, T.G.: 1975, "Sunspots and the solar cycle", *Nature* **255**, 189.
- Cranmer, S.R.: 2009, "Coronal Holes", *Living Reviews in Solar Physics* **6**, 3.
- De Pontieu, B., Erdélyi, R., and James, S.P.: 2004, "Solar chromospheric spicules from the leakage of photospheric oscillations and flows", *Nature* **430**, 536.
- de Pontieu, B., McIntosh, S., Hansteen, V.H., Carlsson, M., Schrijver, C.J., Tarbell, T.D., Title, A.M., Shine, R.A., Suematsu, Y., Tsuneta, S., Katsukawa, Y., Ichimoto, K., Shimizu, T., and, ...: 2007, "A Tale of Two Spicules: The Impact of Spicules on the Magnetic Chromosphere", *Publications of the Astronomical Society of Japan* **59**, S655.

- De Pontieu, B., McIntosh, S.W., Carlsson, M., Hansteen, V.H., Tarbell, T.D., Boerner, P., Martinez-Sykora, J., Schrijver, C.J., and Title, A.M.: 2011, "The Origins of Hot Plasma in the Solar Corona", *Science* **331**, 55.
- Domingo, V., Fleck, B., and Poland, A.I.: 1995, "The SOHO Mission: an Overview", *Solar Phys.* **162**, 1.
- Driesman, A., Hynes, S., and Cancro, G.: 2008, "The STEREO Observatory", *Space Science Reviews* **136**, 17.
- Duan, Y., Shen, Y., Chen, H., and Liang, H.: 2019, "The Birth of a Jet-driven Twin CME and Its Deflection from Remote Magnetic Fields", *The Astrophysical Journal* **881**, 132.
- Dulk, G.A., and McLean, D.J.: 1978, "Coronal magnetic fields.", *Solar Physics* **57**, 279.
- Eddy, J.A.: 1976, "The Maunder Minimum", *Science* **192**, 1189.
- Engvold, O., Hirayama, T., Leroy, J.L., Priest, E.R., and Tandberg-Hanssen, E.: 1990, "Hvar Reference Atmosphere of Quiescent Prominences", *IAU Colloq. 117: Dynamics of Quiescent Prominences*, 294.
- Feng, L., Inhester, B., Solanki, S.K., Wilhelm, K., Wiegelmann, T., Podlipnik, B., Howard, R.A., Plunkett, S.P., Wuelser, J.P., and Gan, W.Q.: 2009, "Stereoscopic Polar Plume Reconstructions from STEREO/SECCHI Images", *The Astrophysical Journal* **700**, 292.
- Fisher, G.H. and Welsch, B.T.: 2008, "FLCT: A Fast, Efficient Method for Performing Local Correlation Tracking", *Subsurface and Atmospheric Influences on Solar Activity* **383**, 373.
- Filippov, B., Srivastava, A.K., Dwivedi, B.N., Masson, S., Aulanier, G., Joshi, N.C., and Uddin, W.: 2015, "Formation of a rotating jet during the filament eruption on 2013 April 10-11", *Monthly Notices of the Royal Astronomical Society* **451**, 1117.

- Fletcher, L., Dennis, B.R., Hudson, H.S., Krucker, S., Phillips, K., Veronig, A., Battaglia, M., Bone, L., Caspi, A., Chen, Q., Gallagher, P., Grigis, P.T., Ji, H., and, ...: 2011, "An Observational Overview of Solar Flares", *Space Science Reviews* **159**, 19.
- Forbes, T.G.: 2000, "A review on the genesis of coronal mass ejections", *Journal of Geophysical Research* **105**, 23153.
- Frazier, E.N.: 1966, "An Observational Study of the Hydrodynamics of the Lower Solar Photosphere", *Publications of the Astronomical Society of the Pacific* **78**, 424.
- Freeland, S.L., and Handy, B.N.: 1998, "Data Analysis with the SolarSoft System", *Solar Phys.* **182**, 497.
- Furth, H.P., Killeen, J., and Rosenbluth, M.N.: 1963, "Finite-Resistivity Instabilities of a Sheet Pinch", *Phys. Fluids* **6**, 459.
- Gaizauskas, V.: 1996, "Magnetic Reconnection as a Driver of Chromospheric Surges", *Solar Physics* **169**, 357.
- Garcia, H.A.: 1994, "Temperature and Emission Measure from Goes Soft X-Ray Measurements", *Solar Phys.* **154**, 275.
- Garaud, P.: 2002, "Dynamics of the solar tachocline - I. An incompressible study", *Monthly Notices of the Royal Astronomical Society* **329**, 1.
- Gary, G.A.: 2001, "Plasma Beta above a Solar Active Region: Rethinking the Paradigm", *Solar Physics* **203**, 71.
- Gibson, S.E., and Fan, Y.: 2006, "Coronal prominence structure and dynamics: A magnetic flux rope interpretation", *Journal of Geophysical Research (Space Physics)* **111**, A12103.

- Gilbert, H.R., Holzer, T.E., Burkepile, J.T., and Hundhausen, A.J.: 2000, "Active and Eruptive Prominences and Their Relationship to Coronal Mass Ejections", *The Astrophysical Journal* **537**, 503.
- Golub, L. and Pasachoff, J.M.: 1997, "The Solar Corona", *The Solar Corona, by Leon Golub and Jay M. Pasachoff*, pp. 388. ISBN 0521480825. Cambridge, UK: Cambridge University Press, September 1997., 388.
- Golub, L., Deluca, E., Austin, G., Bookbinder, J., Caldwell, D., Cheimets, P., Cirtain, J., Cosmo, M., Reid, P., Sette, A., Weber, M., Sakao, T., Kano, R., and, ...: 2007, "The X-Ray Telescope (XRT) for the Hinode Mission", *Solar Phys.* **243**, 63.
- Gontikakis, C., Archontis, V., and Tsinganos, K.: 2009, "Observations and 3D MHD simulations of a solar active region jet", *Astronomy and Astrophysics* **506**, L45.
- Gopalswamy, N., Lu, W., Yashiro, S., Shimojo, M., and Shibasaki, K.: 2004, "Prominence eruptions and coronal mass ejection: a statistical study using microwave observations", *Annual Report of the National Astronomical Observatory of Japan*, 18.
- Gosling, J.T., Hildner, E., MacQueen, R.M., Munro, R.H., Poland, A.I., and Ross, C.L.: 1974, "Mass ejections from the Sun: A view from Skylab", *Journal of Geophysical Research* **79**, 4581. doi:10.1029/JA079i031p04581.
- Gosling, J.T., Hildner, E., MacQueen, R.M., Munro, R.H., Poland, A.I., and Ross, C.L.: 1976, "The speeds of coronal mass ejection events.", *Solar Physics* **48**, 389.
- Gouttebroze, P.: 2008, "Radiative transfer in cylindrical threads with incident radiation. V. 2D transfer with 3D velocity fields", *Astronomy and Astrophysics* **487**, 805.
- Gunár, S., Heinzel, P., Anzer, U., and Schmieder, B.: 2008, "On Lyman-line asymmetries in quiescent prominences", *Astronomy and Astrophysics* **490**, 307.

- Guo, Y., Démoulin, P., Schmieder, B., Ding, M.D., Vargas Domínguez, S., and Liu, Y.: 2013, "Recurrent coronal jets induced by repetitively accumulated electric currents", *Astronomy and Astrophysics* **555**, A19.
- Hagenaar, H.J., DeRosa, M.L., and Schrijver, C.J.: 2008, "The Dependence of Ephemeral Region Emergence on Local Flux Imbalance", *The Astrophysical Journal* **678**, 541.
- Hale, G.E., Ellerman, F., Nicholson, S.B., and Joy, A.H.: 1919, "The Magnetic Polarity of Sun-Spots", *The Astrophysical Journal* **49**, 153.
- Hannah, I.G., Hudson, H.S., Battaglia, M., Christe, S., Kašparová, J., Krucker, S., Kundu, M.R., and Veronig, A.: 2011, "Microflares and the Statistics of X-ray Flares", *Space Science Reviews* **159**, 263.
- Hansteen, V.H., De Pontieu, B., Rouppe van der Voort, L., van Noort, M., and Carlsson, M.: 2006, "Dynamic Fibrils Are Driven by Magnetoacoustic Shocks", *The Astrophysical Journal* **647**, L73.
- Harvey, K.L., and Martin, S.F.: 1973, "Ephemeral Active Regions", *Solar Physics* **32**, 389.
- Harvey, J.W., Bolding, J., Clark, R., Hauth, D., Hill, F., Kroll, R., Luis, G., Mills, N., Purdy, T., Henney, C., Holland, D., and Winter, J.: 2011, "Full-disk Solar H-alpha Images From GONG", *AAS/Solar Physics Division Abstracts #42* , 17.45.
- Hathaway, D.H.: 2015, "The Solar Cycle", *Living Reviews in Solar Physics* **12**, 4.
- He, J., Marsch, E., Tu, C., and Tian, H.: 2009, "Excitation of Kink Waves Due to Small-Scale Magnetic Reconnection in the Chromosphere?", *The Astrophysical Journal* **705**, L217.
- Heggland, L., De Pontieu, B., and Hansteen, V.H.: 2007, "Numerical Simulations of Shock Wave-driven Chromospheric Jets", *The Astrophysical Journal* **666**, 1277.

- Heggland, L., De Pontieu, B., and Hansteen, V.H.: 2009, "Observational Signatures of Simulated Reconnection Events in the Solar Chromosphere and Transition Region", *The Astrophysical Journal* **702**, 1.
- Heggland, L., Hansteen, V.H., De Pontieu, B., and Carlsson, M.: 2011, "Wave Propagation and Jet Formation in the Chromosphere", *The Astrophysical Journal* **743**, 142.
- Heinzel, P., and Anzer, U.: 1999, "Magnetic Dips in Prominences", *Solar Physics* **184**, 103.
- Hirayama, T.: 1974, "Theoretical Model of Flares and Prominences. I: Evaporating Flare Model", *Solar Physics* **34**, 323.
- Hirayama, T.: 1985, "Modern Observations of Solar Prominences", *Solar Physics* **100**, 415.
- Hong, J., Jiang, Y., Zheng, R., Yang, J., Bi, Y., and Yang, B.: 2011, "A Micro Coronal Mass Ejection Associated Blowout Extreme-ultraviolet Jet", *The Astrophysical Journal* **738**, L20.
- Hood, A.W., and Hughes, D.W.: 2011, "Solar magnetic fields", *Physics of the Earth and Planetary Interiors* **187**, 78.
- Hong, J., Jiang, Y., Yang, J., Li, H., and Xu, Z.: 2017, "Minifilament Eruption as the Source of a Blowout Jet, C-class Flare, and Type-III Radio Burst", *The Astrophysical Journal* **835**, 35.
- Howard, R.A., Sheeley, N.R., Michels, D.J., and Koomen, M.J.: 1985, "Coronal mass ejections: 1979-1981", *Journal of Geophysical Research* **90**, 8173.
- Howard, R.A., Moses, J.D., Vourlidas, A., Newmark, J.S., Socker, D.G., Plunkett, S.P., Korendyke, C.M., Cook, J.W., Hurley, A., Davila, J.M., Thompson, W.T., St Cyr,

- O.C., Mentzell, E., and, ...: 2008, "Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI)", *Space Sci. Rev.* **136**, 67.
- Hoyng, P., Duijveman, A., Machado, M.E., Rust, D.M., Svestka, Z., Boelee, A., de Jager, C., Frost, K.T., Lafleur, H., Simnett, G.M., van Beek, H.F., and Woodgate, B.E.: 1981, "Origin and Location of the Hard X-Ray Emission in a Two-Ribbon Flare", *The Astrophysical Journal* **246**, L155.
- Hudson, H.S.: 2000, "Implosions in Coronal Transients", *Astrophys. J.* **531**, L75.
- Hundhausen, A.J., Burkepile, J.T., and St. Cyr, O.C.: 1994, "Speeds of coronal mass ejections: SMM observations from 1980 and 1984-1989", *Journal of Geophysical Research* **99**, 6543.
- Hurlburt, N., Cheung, M., Schrijver, C., Chang, L., Freeland, S., Green, S., Heck, C., Jaffey, A., Kobashi, A., Schiff, D., Serafin, J., Seguin, R., Slater, G., and, ...: 2012, "Heliophysics Event Knowledgebase for the Solar Dynamics Observatory (SDO) and Beyond", *Solar Physics* **275**, 67.
- Hurford, G.J., Schwartz, R.A., Krucker, S., Lin, R.P., Smith, D.M., and Vilmer, N.: 2003, "First Gamma-Ray Images of a Solar Flare", *The Astrophysical Journal* **595**, L77.
- Hurford, G.J., Krucker, S., Lin, R.P., Schwartz, R.A., Share, G.H., and Smith, D.M.: 2006, "Gamma-Ray Imaging of the 2003 October/November Solar Flares", *The Astrophysical Journal* **644**, L93.
- Inhester, B.: 2006, "Stereoscopy basics for the STEREO mission", *arXiv e-prints* , astro-ph/0612649.
- Innes, D.E., Guo, L.-J., Huang, Y.-M., and Bhattacharjee, A.: 2015, "IRIS Si IV Line Profiles: An Indication for the Plasmoid Instability during Small-scale Magnetic Reconnection on the Sun", *Astrophys. J.* **813**, 86.

- Jafarzadeh, S., Solanki, S.K., Lagg, A., Bellot Rubio, L.R., van Noort, M., Feller, A., and Danilovic, S.: 2014, "Inclinations of small quiet-Sun magnetic features based on a new geometric approach", *Astronomy and Astrophysics* **569**, A105.
- Jiang, Y.C., Chen, H.D., Li, K.J., Shen, Y.D., and Yang, L.H.: 2007, "The H α surges and EUV jets from magnetic flux emergences and cancellations", *Astron. Astroph.* **469**, 331.
- Jiang, Y., Shen, Y., Yi, B., Yang, J., and Wang, J.: 2008, "Magnetic Interaction: A Transequatorial Jet and Interconnecting Loops", *Astrophys. J.* **677**, 699.
- Jing, J., Yurchyshyn, V.B., Yang, G., Xu, Y., and Wang, H.: 2004, "On the Relation between Filament Eruptions, Flares, and Coronal Mass Ejections", *The Astrophysical Journal* **614**, 1054.
- Karpen, J.T., and Antiochos, S.K.: 2008, "Condensation Formation by Impulsive Heating in Prominences", *The Astrophysical Journal* **676**, 658.
- Kayshap, P., Srivastava, A.K., and Murawski, K.: 2013, "The Kinematics and Plasma Properties of a Solar Surge Triggered by Chromospheric Activity in AR11271", *Astrophys. J.* **763**, 24.
- Kayshap, P., Srivastava, A.K., Murawski, K., and Tripathi, D.: 2013, "Origin of Macroscopicule and Jet in Polar Corona by a Small-scale Kinked Flux Tube", *Astrophys. J.* **770**, L3.
- Kayshap, P., Murawski, K., Srivastava, A.K., and Dwivedi, B.N.: 2018, "Rotating network jets in the quiet Sun as observed by IRIS", *Astronomy and Astrophysics* **616**, A99.
- Keller, C.U., Schüssler, M., Vögler, A., and Zakharov, V.: 2004, "On the Origin of Solar Faculae", *The Astrophysical Journal* **607**, L59.
- Keppens, R.: 2000, "Sunspot Pores", *Encyclopedia of Astronomy and Astrophysics*, 2043.

- Kippenhahn, R., and Schlüter, A.: 1957, "Eine Theorie der solaren Filamente. Mit 7 Textabbildungen", *Zeitschrift fur Astrophysik* **43**, 36.
- Kopp, R.A., and Pneuman, G.W.: 1976, "Magnetic reconnection in the corona and the loop prominence phenomenon.", *Solar Physics* **50**, 85.
- Kosugi, T., Matsuzaki, K., Sakao, T., Shimizu, T., Sone, Y., Tachikawa, S., and, ...: 2007, "The Hinode (Solar-B) Mission: An Overview", *Solar Physics* **243**, 3. doi:10.1007/s11207-007-9014-6.
- Kramar, M., Inhester, B., and Solanki, S.K.: 2006, "Vector tomography for the coronal magnetic field. I. Longitudinal Zeeman effect measurements", *Astronomy and Astrophysics* **456**, 665.
- Krucker, S. and Benz, A.O.: 2000, "Are Heating Events in the Quiet Solar Corona Small Flares? Multiwavelength Observations of Individual Events", *Solar Phys.* **191**, 341.
- Krucker, S., Benz, A.O., Bastian, T.S., and Acton, L.W.: 1997, "X-Ray Network Flares of the Quiet Sun", *Astrophys. J.* **488**, 499.
- Krucker, S., Hudson, H.S., Jeffrey, N.L.S., Battaglia, M., Kontar, E.P., Benz, A.O., Csillaghy, A., and Lin, R.P.: 2011, "High-resolution Imaging of Solar Flare Ribbons and Its Implication on the Thick-target Beam Model", *The Astrophysical Journal* **739**, 96.
- Kuperus, M., and Raadu, M.A.: 1974, "The Support of Prominences Formed in Neutral Sheets", *Astronomy and Astrophysics* **31**, 189.
- Kuridze, D., Mathioudakis, M., Jess, D.B., Shelyag, S., Christian, D.J., Keenan, F.P., and Balasubramaniam, K.S.: 2011, "Small-scale H α jets in the solar chromosphere", *Astronomy and Astrophysics* **533**, A76.

Labrosse, N., Heinzel, P., Vial, J.-C., Kucera, T., Parenti, S., Gunár, S., Schmieder, B., and Kilper, G.: 2010, "Physics of Solar Prominences: I—Spectral Diagnostics and Non-LTE Modelling", *Space Science Reviews* **151**, 243.

Lemen, J.R., Title, A.M., Akin, D.J., Boerner, P.F., Chou, C., Drake, J.F., Duncan, D.W., Edwards, C.G., Friedlaender, F.M., Heyman, G.F., Hurlburt, N.E., Katz, N.L., Kushner, G.D., and, ...: 2012, "The Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO)", *Solar Physics* **275**, 17.

Leroy, J.L., Bommier, V., and Sahal-Brechot, S.: 1983, "The Magnetic Field in the Prominences of the Polar Crown", *Solar Physics* **83**, 135.

Li, X., Yang, S., Chen, H., Li, T., and Zhang, J.: 2015, "Trigger of a Blowout Jet in a Solar Coronal Mass Ejection Associated with a Flare", *The Astrophysical Journal* **814**, L13.

Li, H., Jiang, Y., Yang, J., Qu, Z., Yang, B., Xu, Z., Bi, Y., Hong, J., and Chen, H.: 2017, "Blowout Surge due to Interaction between a Solar Filament and Coronal Loops", *The Astrophysical Journal* **842**, L20.

Li, X., Zhang, J., Yang, S., Hou, Y., and Erdélyi, R.: 2018, "Observing Kelvin-Helmholtz instability in solar blowout jet", *Scientific Reports* **8**, 8136.

Li, X., Zhang, J., Yang, S., and Hou, Y.: 2019, "Solar jet-like features rooted in flare ribbons", *Publ Astron Soc Jpn* **71**, 14.

Lin, Y., Martin, S.F., and Engvold, O.: 2008, "Filament Substructures and their Interrelation", *Subsurface and Atmospheric Influences on Solar Activity*, 235.

Lin, R.P., Dennis, B., Hurford, G., Smith, D.M., and Zehnder, A.: 2004, "The Reuven Ramaty high-energy solar spectroscopic imager (RHESSI) mission", *Telescopes and Instrumentation for Solar Astrophysics* **5171**, 38. doi:10.1117/12.506649.

- Liu, Y., Kurokawa, H., and Shibata, K.: 2005, "Production of Filaments by Surges", *Astrophys. J.* **631**, L93.
- Liu, Y., Su, J.T., Morimoto, T., Kurokawa, H., and Shibata, K.: 2005, "Observations of an Emerging Flux Region Surge: Implications for Coronal Mass Ejections Triggered by Emerging Flux", *Astrophys. J.* **628**, 1056.
- Liu, Y.: 2008, "A Study of Surges: II. On the Relationship between Chromospheric Surges and Coronal Mass Ejections", *Solar Phys.* **249**, 75.
- Liu, R., Wang, H., and Alexander, D.: 2009, "Implosion in a Coronal Eruption", *Astrophys. J.* **696**, 121.
- Liu, J., Wang, Y., Shen, C., Liu, K., Pan, Z., and Wang, S.: 2015, "A Solar Coronal Jet Event Triggers a Coronal Mass Ejection", *Astrophys. J.* **813**, 115.
- Low, B.C.: 2001, "Coronal mass ejections, magnetic flux ropes, and solar magnetism", *Journal of Geophysical Research* **106**, 25141.
- Lynch, D.K., Beckers, J.M., and Dunn, R.B.: 1973, "A Morphological Study of Solar Spicules", *Solar Physics* **30**, 63.
- Mackay, D.H., Karpen, J.T., Ballester, J.L., Schmieder, B., and Aulanier, G.: 2010, "Physics of Solar Prominences: II—Magnetic Structure and Dynamics", *Space Science Reviews* **151**, 333.
- Manchester, W., Gombosi, T., DeZeeuw, D., and Fan, Y.: 2004, "Eruption of a Buoyantly Emerging Magnetic Flux Rope", *The Astrophysical Journal* **610**, 588.
- Mariska, J.T.: 1992, "The Solar Transition Region", *The Solar Transition Region*.
- Martin, S.F., and Harvey, K.H.: 1979, "Ephemeral Active Regions during Solar Minimum", *Solar Physics* **64**, 93.

Martin, S.F., Marquette, W.H., and Bilimoria, R.: 1992, "The Solar Cycle Pattern in the Direction of the Magnetic Field along the Long Axes of Polar Filaments", *The Solar Cycle*, 53.

Martin, S.F., Bilimoria, R., and Tracadas, P.W.: 1994, "Magnetic field configurations basic to filament channels and filaments", *NATO Advanced Science Institutes (ASI) Series C*, 303.

Maunder, E.W.: 1903, "Spoerer's law of zones", *The Observatory* **26**, 329.

Maunder, E.W.: 1904, "Note on the Distribution of Sun-spots in Heliographic Latitude, 1874-1902", *Monthly Notices of the Royal Astronomical Society* **64**, 747.

McIntosh, S.W., Innes, D.E., de Pontieu, B., and Leamon, R.J.: 2010, "STEREO observations of quasi-periodically driven high velocity outflows in polar plumes", *Astronomy and Astrophysics* **510**, L2.

Miao, Y., Liu, Y., Li, H.B., Shen, Y., Yang, S., Elmhamdi, A., Kordi, A.S., and Abidin, Z.Z.: 2018, "A Blowout Jet Associated with One Obvious Extreme-ultraviolet Wave and One Complicated Coronal Mass Ejection Event", *The Astrophysical Journal* **869**, 39.

Miao, Y., Liu, Y., Shen, Y.D., Elmhamdi, A., Kordi, A.S., Li, H.B., Abidin, Z.Z., and Tian, Z.J.: 2019, "A New Small Satellite Sunspot Triggering Recurrent Standard and Blowout Coronal Jets", *Astrophys. J.* **877**, 61.

Miesch, M.S.: 2005, "Large-Scale Dynamics of the Convection Zone and Tachocline", *Living Reviews in Solar Physics* **2**, 1. doi:10.12942/lrsp-2005-1.

Mitalas, R., and Sills, K.R.: 1992, "On the Photon Diffusion Time Scale for the Sun", *The Astrophysical Journal* **401**, 759.

- Moore, R.L., Cirtain, J.W., Sterling, A.C., and Falconer, D.A.: 2010, "Dichotomy of Solar Coronal Jets: Standard Jets and Blowout Jets", *The Astrophysical Journal* **720**, 757.
- Moore, R.L., Sterling, A.C., Falconer, D.A., and Robe, D.: 2013, "The Cool Component and the Dichotomy, Lateral Expansion, and Axial Rotation of Solar X-Ray Jets", *The Astrophysical Journal* **769**, 134.
- Moreno-Insertis, F., and Galsgaard, K.: 2013, "Plasma Jets and Eruptions in Solar Coronal Holes: A Three-dimensional Flux Emergence Experiment", *The Astrophysical Journal* **771**, 20.
- Morgan, H. and Druckmüller, M.: 2014, "Multi-Scale Gaussian Normalization for Solar Image Processing", *Solar Phys.* **289**, 2945.
- Müller, D., St. Cyr, O.C., Zouganelis, I., Gilbert, H.R., Marsden, R., Nieves-Chinchilla, T., and, ...: 2020, "The Solar Orbiter mission. Science overview", *Astronomy and Astrophysics* **642**, A1. doi:10.1051/0004-6361/202038467.
- Murawski, K., Srivastava, A.K., and Zaqrashvili, T.V.: 2011, "Numerical simulations of solar macrospicules", *Astron. Astroph.* **535**, A58.
- Narang, N., Arbacher, R.T., Tian, H., Banerjee, D., Cranmer, S.R., DeLuca, E.E., and McKillop, S.: 2016, "Statistical Study of Network Jets Observed in the Solar Transition Region: a Comparison Between Coronal Holes and Quiet-Sun Regions", *Solar Physics* **291**, 1129.
- Ni, L., Zhang, Q.-M., Murphy, N.A., and Lin, J.: 2017, "Blob Formation and Ejection in Coronal Jets due to the Plasmoid and Kelvin-Helmholtz Instabilities", *Astrophys. J.* **841**, 27.
- Nishida, K., Shimizu, M., Shiota, D., Takasaki, H., Magara, T., and Shibata, K.: 2009, "Numerical Examination of Plasmoid-Induced Reconnection Model for Solar Flares:

- The Relation between Plasmoid Velocity and Reconnection Rate”, *Astrophys. J.* **690**, 748.
- Nishikawa, T.: 1988, “Spicule observations with high spatial resolution”, *Publications of the Astronomical Society of Japan* **40**, 613.
- Nishizuka, N., Shimizu, M., Nakamura, T., Otsuji, K., Okamoto, T.J., Katsukawa, Y., and Shibata, K.: 2008, “Giant Chromospheric Anemone Jet Observed with Hinode and Comparison with Magnetohydrodynamic Simulations: Evidence of Propagating Alfvén Waves and Magnetic Reconnection”, *Astrophys. J.* **683**, L83.
- Nisticò, G., Bothmer, V., Patsourakos, S., and Zimbardo, G.: 2009, “Characteristics of EUV Coronal Jets Observed with STEREO/SECCHI”, *Solar Physics* **259**, 87.
- November, L.J. and Simon, G.W.: 1988, “Precise Proper-Motion Measurement of Solar Granulation”, *The Astrophysical Journal* **333**, 427.
- Panesar, N.K., Sterling, A.C., Moore, R.L., and Chakrapani, P.: 2016, “Magnetic Flux Cancelation as the Trigger of Solar Quiet-region Coronal Jets”, *The Astrophysical Journal* **832**, L7.
- Panesar, N.K., Sterling, A.C., and Moore, R.L.: 2016, “Homologous Jet-driven Coronal Mass Ejections from Solar Active Region 12192”, *Astrophys. J.* **822**, L23.
- Panesar, N.K., Sterling, A.C., and Moore, R.L.: 2017, “Magnetic Flux Cancellation as the Origin of Solar Quiet-region Pre-jet Minifilaments”, *Astrophys. J.* **844**, 131.
- Panesar, N.K., Sterling, A.C., and Moore, R.L.: 2018, “Magnetic Flux Cancelation as the Trigger of Solar Coronal Jets in Coronal Holes”, *The Astrophysical Journal* **853**, 189.

- Paraschiv, A.R., Lacatus, D.A., Badescu, T., Lupu, M.G., Simon, S., Sandu, S.G., Mierla, M., and Rusu, M.V.: 2010, "Study of Coronal Jets During Solar Minimum Based on STEREO/SECCHI Observations", *Solar Physics* **264**, 365.
- Pariat, E., Antiochos, S.K., and DeVore, C.R.: 2009, "A Model for Solar Polar Jets", *The Astrophysical Journal* **691**, 61.
- Pariat, E., Antiochos, S.K., and DeVore, C.R.: 2010, "Three-dimensional Modeling of Quasi-homologous Solar Jets", *The Astrophysical Journal* **714**, 1762.
- Pariat, E., Dalmasse, K., DeVore, C.R., Antiochos, S.K., and Karpen, J.T.: 2015, "Model for straight and helical solar jets. I. Parametric studies of the magnetic field geometry", *Astronomy and Astrophysics* **573**, A130.
- Pariat, E., Dalmasse, K., DeVore, C.R., Antiochos, S.K., and Karpen, J.T.: 2016, "A model for straight and helical solar jets. II. Parametric study of the plasma beta", *Astronomy and Astrophysics* **596**, A36.
- Parker, E.N.: 1970, "The Origin of Solar Magnetic Fields", *Annual Review of Astronomy and Astrophysics* **8**, 1.
- Parnell, C.E., DeForest, C.E., Hagenaar, H.J., Johnston, B.A., Lamb, D.A., and Welsch, B.T.: 2009, "A Power-Law Distribution of Solar Magnetic Fields Over More Than Five Decades in Flux", *The Astrophysical Journal* **698**, 75.
- Pesnell, W.D., Thompson, B.J., and Chamberlin, P.C.: 2012, "The Solar Dynamics Observatory (SDO)", *Solar Physics* **275**, 3.
- Pereira, T.M.D., De Pontieu, B., and Carlsson, M.: 2012, "Quantifying Spicules", *The Astrophysical Journal* **759**, 18.

- Pereira, T.M.D., De Pontieu, B., Carlsson, M., Hansteen, V., Tarbell, T.D., Lemen, J., Title, A., Boerner, P., Hurlburt, N., Wülser, J.P., Martínez-Sykora, J., Kleint, L., Golub, L., and,: 2014, "An Interface Region Imaging Spectrograph First View on Solar Spicules", *The Astrophysical Journal* **792**, L15.
- Pneuman, G.W.: 1983, "The Formation of Solar Prominences by Magnetic Reconnection and Condensation", *Solar Physics* **88**, 219.
- Priest, E.R., Hood, A.W., and Anzer, U.: 1989, "A Twisted Flux-Tube Model for Solar Prominences. I. General Properties", *The Astrophysical Journal* **344**, 1010.
- Priest, E.R., and Forbes, T.G.: 2002, "The magnetic nature of solar flares", *Astronomy and Astrophysics Review* **10**, 313.
- Priest, E.: 2014, "Magnetohydrodynamics of the Sun", *Magnetohydrodynamics of the Sun*.
- Pucci, S., Poletto, G., Sterling, A.C., and Romoli, M.: 2013, "Physical Parameters of Standard and Blowout Jets", *Astrophys. J.* **776**, 16.
- Rao, Y.K., Srivastava, A.K., Doyle, J.G., and Dwivedi, B.N.: 2017, "Origin of impulsive plasma outflows due to magnetoacoustic shocks", *Monthly Notices of the Royal Astronomical Society* **470**, 2449.
- Raouafi, N.-E., and Stenborg, G.: 2014, "Role of Transients in the Sustainability of Solar Coronal Plumes", *The Astrophysical Journal* **787**, 118.
- Raouafi, N.E., Patsourakos, S., Pariat, E., Young, P.R., Sterling, A.C., Savcheva, A., Shi-mojo, M., Moreno-Insertis, F., DeVore, C.R., Archontis, V., Török, T., Mason, H., Curdt, W., and,: 2016, "Solar Coronal Jets: Observations, Theory, and Modeling", *Space Science Reviews* **201**, 1.

- Reid, A., Mathioudakis, M., Scullion, E., Doyle, J.G., Shelyag, S., and Gallagher, P.: 2015, “Ellerman Bombs with Jets: Cause and Effect”, *The Astrophysical Journal* **805**, 64.
- Reid, A., Mathioudakis, M., Doyle, J.G., Scullion, E., Nelson, C.J., Henriques, V., and Ray, T.: 2016, “Magnetic Flux Cancellation in Ellerman Bombs”, *The Astrophysical Journal* **823**, 110.
- Régnier, S., and Canfield, R.C.: 2006, “Evolution of magnetic fields and energetics of flares in active region 8210”, *Astronomy and Astrophysics* **451**, 319.
- Rouppe van der Voort, L.H.M., Hansteen, V.H., Carlsson, M., Fossum, A., Marthinussen, E., van Noort, M.J., and Berger, T.E.: 2005, “Solar magnetic elements at 0.1 arcsec resolution. II. Dynamical evolution”, *Astronomy and Astrophysics* **435**, 327.
- Rouppe van der Voort, L., Leenaarts, J., de Pontieu, B., Carlsson, M., and Vissers, G.: 2009, “On-disk Counterparts of Type II Spicules in the Ca II 854.2 nm and H α Lines”, *The Astrophysical Journal* **705**, 272.
- Roy, J.R.: 1973, “The Magnetic Properties of Solar Surges”, *Solar Physics* **28**, 95.
- Rudiger, G., and Kitchatinov, L.L.: 1997, “The slender solar tachocline: a magnetic model”, *Astronomische Nachrichten* **318**, 273.
- Savcheva, A., Cirtain, J., Deluca, E.E., Lundquist, L.L., Golub, L., Weber, M., Shimojo, M., Shibasaki, K., Sakao, T., Narukage, N., Tsuneta, S., and Kano, R.: 2007, “A Study of Polar Jet Parameters Based on Hinode XRT Observations”, *Publ Astron Soc Jpn* **59**, S771.
- Scharmer, G.B., Bjelksjo, K., Korhonen, T.K., Lindberg, B., and Petterson, B.: 2003, “The 1-meter Swedish solar telescope”, *Innovative Telescopes and Instrumentation for Solar Astrophys*, 341.

Scherrer, P.H., Bogart, R.S., Bush, R.I., Hoeksema, J.T., Kosovichev, A.G., Schou, J., and, ...: 1995, *Solar Physics* **162**, 129. doi:10.1007/BF00733429.

Scherrer, P.H., Schou, J., Bush, R.I., Kosovichev, A.G., Bogart, R.S., Hoeksema, J.T., Liu, Y., Duvall, T.L., Zhao, J., Title, A.M., Schrijver, C.J., Tarbell, T.D., and Tomczyk, S.: 2012, "The Helioseismic and Magnetic Imager (HMI) Investigation for the Solar Dynamics Observatory (SDO)", *Solar Physics* **275**, 207.

Schmieder, B., Mein, P., Simnett, G.M., and Tandberg-Hanssen, E.: 1988, "An example of the association of X-ray and UV emission with H-alpha surges", *Astronomy and Astrophysics* **201**, 327.

Schmieder, B., Golub, L., and Antiochos, S.K.: 1994, "Comparison between Cool and Hot Plasma Behaviors of Surges", *The Astrophysical Journal* **425**, 326.

Schmieder, B., Delannée, C., Yong, D.Y., Vial, J.C., and Madjarska, M.: 2000, "Multi-wavelength study of the slow "disparition brusque" of a filament observed with SOHO", *Astronomy and Astrophysics* **358**, 728.

Schmahl, E.J.: 1981, "The Physical Relationship Between Flares and Surges Observed in the Extreme Ultraviolet", *Solar Physics* **69**, 135.

Schou, J., Scherrer, P.H., Bush, R.I., Wachter, R., Couvidat, S., Rabello-Soares, M.C., Bogart, R.S., Hoeksema, J.T., Liu, Y., Duvall, T.L., Akin, D.J., Allard, B.A., Miles, J.W., and, ...: 2012, "Design and Ground Calibration of the Helioseismic and Magnetic Imager (HMI) Instrument on the Solar Dynamics Observatory (SDO)", *Solar Physics* **275**, 229.

Schrijver, C., Title, A., Acton, L., Bruner, M., Fischer, R., Golub, L., and, ...: 1996, "TRACE: the Transition Region and Coronal Explorer", *American Astronomical Society Meeting Abstracts #188*.

- Schrijver, C.J., and Zwaan, C.: 2000, ‘‘Solar and Stellar Magnetic Activity’’, *Solar and stellar magnetic activity / Carolus J. Schrijver.*
- Schrijver, C.J., and De Rosa, M.L.: 2003, ‘‘Photospheric and heliospheric magnetic fields’’, *Solar Physics* **212**, 165.
- Schrijver, C.J., Hudson, H.S., Murphy, R.J., Share, G.H., and Tarbell, T.D.: 2006, ‘‘Gamma Rays and the Evolving, Compact Structures of the 2003 October 28 X17 Flare’’, *The Astrophysical Journal* **650**, 1184.
- Schrijver, C.J.: 2010, ‘‘Eruptions from Solar Ephemeral Regions as an Extension of the Size Distribution of Coronal Mass Ejections’’, *The Astrophysical Journal* **710**, 1480.
- Semel, M.: 1989, ‘‘Zeeman-Doppler imaging of active stars. I - Basic principles.’’, *Astronomy and Astrophysics* **225**, 456.
- Shen, Y., Liu, Y., Su, J., and Deng, Y.: 2012, ‘‘On a Coronal Blowout Jet: The First Observation of a Simultaneously Produced Bubble-like CME and a Jet-like CME in a Solar Event’’, *The Astrophysical Journal* **745**, 164.
- Shen, Y., Liu, Y., and Su, J.: 2012, ‘‘Sympathetic Partial and Full Filament Eruptions Observed in One Solar Breakout Event’’, *Astrophys. J.* **750**, 12.
- Shen, Y., Liu, Y., Su, J., and Ibrahim, A.: 2011, ‘‘Kinematics and Fine Structure of an Unwinding Polar Jet Observed by the Solar Dynamic Observatory/Atmospheric Imaging Assembly’’, *Astrophys. J.* **735**, L43.
- Shen, Y., Liu, Y.D., Su, J., Qu, Z., and Tian, Z.: 2017, ‘‘On a Solar Blowout Jet: Driving Mechanism and the Formation of Cool and Hot Components’’, *Astrophys. J.* **851**, 67.

- Shen, Y., Tang, Z., Li, H., and Liu, Y.: 2018, ‘‘Coronal EUV, QFP, and kink waves simultaneously launched during the course of jet-loop interaction’’, *Monthly Notices of the Royal Astronomical Society* **480**, L63.
- Shen, Y., Tang, Z., Miao, Y., Su, J., and Liu, Y.: 2018, ‘‘EUV Waves Driven by the Sudden Expansion of Transequatorial Loops Caused by Coronal Jets’’, *Astrophys. J.* **860**, L8.
- Shen, Y., Liu, Y., Liu, Y.D., Su, J., Tang, Z., and Miao, Y.: 2018, ‘‘Homologous Large-amplitude Nonlinear Fast-mode Magnetosonic Waves Driven by Recurrent Coronal Jets’’, *Astrophys. J.* **861**, 105.
- Shibata, K., Nishikawa, T., Kitai, R., and Suematsu, Y.: 1982, ‘‘Numerical Hydrodynamics of the Jet Phenomena in the Solar Atmosphere - Part Two - Surges’’, *Solar Phys.* **77**, 121.
- Shibata, K., Tajima, T., Steinolfson, R.S., and Matsumoto, R.: 1989, ‘‘Two-dimensional magnetohydrodynamic model of emerging magnetic flux in the solar atmosphere’’, *The Astrophysical Journal* **345**, 584.
- Shibata, K., Nozawa, S., Matsumoto, R., Sterling, A.C., and Tajima, T.: 1990, ‘‘Emergence of Solar Magnetic Flux from the Convection Zone into the Photosphere and Chromosphere’’, *The Astrophysical Journal* **351**, L25.
- Shibata, K., Ishido, Y., Acton, L.W., Strong, K.T., Hirayama, T., Uchida, Y., McAllister, A.H., Matsumoto, R., Tsuneta, S., Shimizu, T., Hara, H., Sakurai, T., Ichimoto, K., and, ...: 1992, ‘‘Observations of X-Ray Jets with the YOHKOH Soft X-Ray Telescope’’, *Publ Astron Soc Jpn* **44**, L173.
- Shibata, K., Nozawa, S., and Matsumoto, R.: 1992, ‘‘Magnetic Reconnection Associated with Emerging Magnetic Flux’’, *Publications of the Astronomical Society of Japan* **44**, 265.

- Shibata, K., Nitta, N., Strong, K.T., Matsumoto, R., Yokoyama, T., Hirayama, T., Hudson, H., and Ogawara, Y.: 1994, "A Gigantic Coronal Jet Ejected from a Compact Active Region in a Coronal Hole", *Astrophys. J.* **431**, L51.
- Shibata, K., Shimojo, M., Yokoyama, T., and Ohyama, M.: 1996, "Theory and Observations of X-Ray Jets (Invited)", *Astron Society of the Pacific Conference Series*, 29.
- Shibata, K.: 1999, "Evidence of Magnetic Reconnection in Solar Flares and a Unified Model of Flares", *Astrophysics and Space Science* **264**, 129.
- Shibata, K., Nakamura, T., Matsumoto, T., Otsuji, K., Okamoto, T.J., Nishizuka, N., Kawate, T., Watanabe, H., Nagata, S., UeNo, S., Kitai, R., Nozawa, S., Tsuneta, S., and, ...: 2007, "Chromospheric Anemone Jets as Evidence of Ubiquitous Reconnection", *Science* **318**, 1591.
- Shibata, K., and Magara, T.: 2011, "Solar Flares: Magnetohydrodynamic Processes", *Living Reviews in Solar Physics* **8**, 6.
- Shimojo, M., Hashimoto, S., Shibata, K., Hirayama, T., Hudson, H.S., and Acton, L.W.: 1996, "Statistical Study of Solar X-Ray Jets Observed with the YOHKOH Soft X-Ray Telescope", *Publ Astron Soc Japan* **48**, 123.
- Shimojo, M., Shibata, K., and Harvey, K.L.: 1998, "Magnetic Field Properties of Solar X-Ray Jets", *Solar Phys.* **178**, 379.
- Shimojo, M., and Shibata, K.: 2000, "Physical Parameters of Solar X-Ray Jets", *The Astrophysical Journal* **542**, 1100.
- Shimojo, M., Narukage, N., Kano, R., Sakao, T., Tsuneta, S., Shibasaki, K., Cirtain, J.W., Lundquist, L.L., Reeves, K.K., and Savcheva, A.: 2007, "Fine Structures of Solar X-Ray Jets Observed with the X-Ray Telescope aboard Hinode", *Publ Astron Soc Jpn* **59**, S745.

- Singh, B., Sharma, K., and Srivastava, A.K.: 2019, "On modelling the kinematics and evolutionary properties of pressure-pulse-driven impulsive solar jets", *Ann. Geophys.* **37**, 891.
- Singh, K.A.P., Isobe, H., Nishizuka, N., Nishida, K., and Shibata, K.: 2012, "Multiple Plasma Ejections and Intermittent Nature of Magnetic Reconnection in Solar Chromospheric Anemone Jets", *Astrophys. J.* **759**, 33.
- Skogsrud, H., Rouppe van der Voort, L., De Pontieu, B., and Pereira, T.M.D.: 2015, "On the Temporal Evolution of Spicules Observed with IRIS, SDO, and Hinode", *The Astrophysical Journal* **806**, 170.
- Solanki, S.K.: 1989, "The origin and the diagnostic capabilities of the Stokes V asymmetry observed in solar faculae and the network", *Astronomy and Astrophysics* **224**, 225.
- Solanki, S.K.: 1993, "Smallscale Solar Magnetic Fields - an Overview", *Space Science Reviews* **63**, 1.
- Solanki, S.K.: 1998, "Structure of the Solar Photosphere", *Space Science Reviews* **85**, 175.
- Solanki, S.K., Inhester, B., and Schüssler, M.: 2006, "The solar magnetic field", *Reports on Progress in Physics* **69**, 563.
- Solanki, R., Srivastava, A.K., and Dwivedi, B.N.: 2018, "Study of two-stage coronal jet associated with a C1.4 class solar flare", *Astrophysics and Space Science* **363**, 233.
- Solanki, R., Srivastava, A.K., Rao, Y.K., and Dwivedi, B.N.: 2019, "Twin CME Launched by a Blowout Jet Originated from the Eruption of a Quiet-Sun Mini-filament", *Solar Physics* **294**, 68.
- Solanki, R., Srivastava, A.K., and Dwivedi, B.N.: 2020, "CME Productive and Non-productive Recurring Jets Near an Active Region AR11176", *Solar Physics* **295**, 27.

- Song, H.Q., Chen, Y., Liu, K., Feng, S.W., and Xia, L.D.: 2009, "Quasi-Periodic Releases of Streamer Blobs and Velocity Variability of the Slow Solar Wind near the Sun", *Solar Phys.* **258**, 129.
- Spiegel, E.A., and Zahn, J.-P.: 1992, "The solar tachocline.", *Astronomy and Astrophysics* **265**, 106.
- Spruit, H.C.: 1976, "Pressure equilibrium and energy balance of small photospheric fluxtubes.", *Solar Physics* **50**, 269.
- Spruit, H.C.: 2002, "Dynamo action by differential rotation in a stably stratified stellar interior", *Astronomy and Astrophysics* **381**, 923.
- Spoerer, F.W.G., and Maunder, E.W.: 1890, "Prof. Spoerer's researches on Sun-spots", *Monthly Notices of the Royal Astronomical Society* **50**, 251.
- Srivastava, A.K. and Murawski, K.: 2011, "Observations of a pulse-driven cool polar jet by SDO/AIA", *Astron. Astroph.* **534**, A62.
- St. Cyr, O.C., Burkepile, J.T., Hundhausen, A.J., and Lecinski, A.R.: 1999, "A comparison of ground-based and spacecraft observations of coronal mass ejections from 1980-1989", *Journal of Geophysical Research* **104**, 12493.
- St. Cyr, O.C., Plunkett, S.P., Michels, D.J., Paswaters, S.E., Koomen, M.J., Simnett, G.M., Thompson, B.J., Gurman, J.B., Schwenn, R., Webb, D.F., Hildner, E., and Lamy, P.L.: 2000, "Properties of coronal mass ejections: SOHO LASCO observations from January 1996 to June 1998", *Journal of Geophysical Research* **105**, 18169.
- Steinolfson, R.S., Schmahl, E.J., and Wu, S.T.: 1979, "Hydrodynamic simulations of flare/surge events.", *Solar Phys.* **63**, 187.

- Steiner, O.: 2007, "Photospheric processes and magnetic flux tubes", *Kodai School on Solar Physics*, 74.
- Stenflo, J.: 2001, "Solar Magnetic Field: Zeeman and Hanle Effects", *Encyclopedia of Astronomy and Astrophysics*, 2236.
- Stenflo, J.O., and Kosovichev, A.G.: 2012, "Bipolar Magnetic Regions on the Sun: Global Analysis of the SOHO/MDI Data Set", *The Astrophysical Journal* **745**, 129.
- Sterling, A.C.: 2000, "Solar Spicules: A Review of Recent Models and Targets for Future Observations - (Invited Review)", *Solar Phys.* **196**, 79.
- Sterling, A.C., Moore, R.L., and DeForest, C.E.: 2010, "Hinode Solar Optical Telescope Observations of the Source Regions and Evolution of "Type II" Spicules at the Solar Polar Limb", *The Astrophysical Journal* **714**, L1.
- Sterling, A.C., Moore, R.L., Falconer, D.A., and Adams, M.: 2015, "Small-scale filament eruptions as the driver of X-ray jets in solar coronal holes", *Nature* **523**, 437.
- Sterling, A.C., Moore, R.L., Falconer, D.A., Panesar, N.K., Akiyama, S., Yashiro, S., and Gopalswamy, N.: 2016, "Minifilament Eruptions that Drive Coronal Jets in a Solar Active Region", *The Astrophysical Journal* **821**, 100.
- Sterling, A.C., Moore, R.L., Falconer, D.A., Panesar, N.K., and Martinez, F.: 2017, "Solar Active Region Coronal Jets. II. Triggering and Evolution of Violent Jets", *The Astrophysical Journal* **844**, 28.
- Sterling, A.C., Harra, L.K., Moore, R.L., and Falconer, D.A.: 2019, "A Two-sided Loop X-Ray Solar Coronal Jet Driven by a Minifilament Eruption", *The Astrophysical Journal* **871**, 220.
- Sturrock, P.A.: 1966, "Model of the High-Energy Phase of Solar Flares", *Nature* **211**, 695.

- Strong, K.T., Harvey, K., Hirayama, T., Nitta, N., Shimizu, T., and Tsuneta, S.: 1992, "Observations of the Variability of Coronal Bright Points by the Soft X-Ray Telescope on YOHKOH", *Publ Astron Soc Jpn* **44**, L161.
- Su, Y., Gömöry, P., Veronig, A., Temmer, M., Wang, T., Vanninathan, K., Gan, W., and Li, Y.: 2014, "Solar Magnetized Tornadoes: Rotational Motion in a Tornado-like Prominence", *Astrophys. J.* **785**, L2.
- Svestka, Z., Farnik, F., and Tang, F.: 1990, "X-Ray Bright Surges", *Solar Physics* **127**, 149.
- Tandberg-Hanssen, E.: 1995, "The nature of solar prominences", *Astrophysics and Space Science Library*.
- Thompson, B.J., Plunkett, S.P., Gurman, J.B., Newmark, J.S., St. Cyr, O.C., and Michels, D.J.: 1998, "SOHO/EIT observations of an Earth-directed coronal mass ejection on May 12, 1997", *Geophys. Res. Lett.* **25**, 2465. doi:10.1029/98GL50429.
- Tian, H., DeLuca, E.E., Cranmer, S.R., De Pontieu, B., Peter, H., Martínez-Sykora, J., Golub, L., McKillop, S., Reeves, K.K., Miralles, M.P., McCauley, P., Saar, S., Testa, P., and, ...: 2014, "Prevalence of small-scale jets from the networks of the solar transition region and chromosphere", *Science* **346**, 1255711.
- Tian, H.: 2017, "Probing the solar transition region: current status and future perspectives", *Research in Astronomy and Astrophysics* **17**, 110.
- Tian, Z., Liu, Y., Shen, Y., Elmhamdi, A., Su, J., Liu, Y.D., and Kordi, A.S.: 2017, "Successive Two-sided Loop Jets Caused by Magnetic Reconnection between Two Adjacent Filamentary Threads", *Astrophys. J.* **845**, 94.
- Title, A.M., Tarbell, T.D., and Topka, K.P.: 1987, "On the Relation between Magnetic Field Structures and Granulation", *The Astrophysical Journal* **317**, 892.

Title, A.M., Tarbell, T.D., Topka, K.P., Ferguson, S.H., Shine, R.A., and SOUP Team: 1989, “Statistical Properties of Solar Granulation Derived from the SOUP Instrument on Spacelab 2”, *The Astrophysical Journal* **336**, 475.

Tlatov, A.G., Vasil’eva, V.V., and Pevtsov, A.A.: 2010, “Distribution of Magnetic Dipoles on the Sun over Three Solar Cycles”, *The Astrophysical Journal* **717**, 357.

Tsuneta, S., Ichimoto, K., Katsukawa, Y., Nagata, S., Otsubo, M., Shimizu, T., and, ...: 2008, *Solar Physics* **249**, 167. doi:10.1007/s11207-008-9174-z.

Uddin, W., Schmieder, B., Chandra, R., Srivastava, A.K., Kumar, P., and Bisht, S.: 2012, “Observations of Multiple Surges Associated with Magnetic Activities in AR 10484 on 2003 October 25”, *Astrophys. J.* **752**, 70.

van Ballegooijen, A.A., Priest, E.R., and Mackay, D.H.: 2000, “Mean Field Model for the Formation of Filament Channels on the Sun”, *The Astrophysical Journal* **539**, 983.

van Driel-Gesztelyi, L., and Green, L.M.: 2015, “Evolution of Active Regions”, *Living Reviews in Solar Physics* **12**, 1.

Wang, Y.-M., Sheeley, N.R., Socker, D.G., Howard, R.A., Brueckner, G.E., Michels, D.J., Moses, D., St. Cyr, O.C., Llebaria, A., and Delaboudinière, J.-P.: 1998, “Observations of Correlated White-Light and Extreme-Ultraviolet Jets from Polar Coronal Holes”, *Astrophys. J.* **508**, 899.

Wang, Y.-M., and Sheeley, N.R.: 2002, “Coronal White-Light Jets near Sunspot Maximum”, *The Astrophysical Journal* **575**, 542.

Wang, Y.-M., Warren, H.P., and Muglach, K.: 2016, “Converging Supergranular Flows and the Formation of Coronal Plumes”, *The Astrophysical Journal* **818**, 203.

Webb, D.F., and Howard, T.A.: 2012, "Coronal Mass Ejections: Observations", *Living Reviews in Solar Physics* **9**, 3.

Wedemeyer-Böhm, S., Scullion, E., Steiner, O., Rouppe van der Voort, L., de La Cruz Rodriguez, J., Fedun, V., and Erdélyi, R.: 2012, "Magnetic tornadoes as energy channels into the solar corona", *Nature* **486**, 505.

Wedemeyer, S., and Steiner, O.: 2014, "On the plasma flow inside magnetic tornadoes on the Sun", *Publ Astron Soc Jpn* **66**, S10.

Wiegelmann, T., Thalmann, J.K., and Solanki, S.K.: 2014, "The magnetic field in the solar atmosphere", *Astronomy and Astrophysics Review* **22**, 78.

Wittmann, A.D., and Xu, Z.T.: 1987, "A catalogue of sunspot observations from 165 BC to AD 1684", *Astronomy and Astrophysics Supplement Series* **70**, 83.

Woods, T.N., Eparvier, F.G., Hock, R., Jones, A.R., Woodraska, D., Judge, D., Didkovsky, L., Lean, J., Mariska, J., Warren, H., McMullin, D., Chamberlin, P., Berthiaume, G., and, ...: 2012, "Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments", *Solar Physics* **275**, 115.

Wuelser, J.-P., Lemen, J.R., Tarbell, T.D., Wolfson, C.J., Cannon, J.C., Carpenter, B.A., Duncan, D.W., Gradwohl, G.S., Meyer, S.B., Moore, A.S., Navarro, R.L., Pearson, J.D., Rossi, G.R., Springer, L.A., Howard, R.A., Moses, J.D., Newmark, J.S., Delaboudiniere, J.-P., Artzner, G.E., Auchere, F., Bougnet, M., Bouyries, P., Bridou, F., Clotaire, J.-Y., Colas, G., Delmotte, F., Jerome, A., Lamare, M., Mercier, R., Mullot, M., Ravet, M.-F., Song, X., Bothmer, V., and Deutsch, W.: 2004, "EUVI: the STEREO-SECCHI extreme ultraviolet imager", *Telescopes and Instrumentation for Solar Astrophysics* **5171**, 111.

- Wyper, P.F., DeVore, C.R., Karpen, J.T., and Lynch, B.J.: 2016, ‘‘Three-Dimensional Simulations of Tearing and Intermittency in Coronal Jets’’, *Astrophys. J.* **827**, 4.
- Wyper, P.F., Antiochos, S.K., and DeVore, C.R.: 2017, ‘‘A universal model for solar eruptions’’, *Nature* **544**, 452.
- Wyper, P.F., DeVore, C.R., and Antiochos, S.K.: 2018, ‘‘A Breakout Model for Solar Coronal Jets with Filaments’’, *The Astrophysical Journal* **852**, 98.
- Yashiro, S., Gopalswamy, N., Cliver, E.W., Reames, D.V., Kaiser, M.L., and Howard, R.A.: 2004, ‘‘Association of Coronal Mass Ejections and Type II Radio Bursts with Impulsive Solar Energetic Particle Events’’, *The Solar-b Mission and the Forefront of Solar Phys.*, 401.
- Yashiro, S., Gopalswamy, N., Michalek, G., St. Cyr, O.C., Plunkett, S.P., Rich, N.B., and Howard, R.A.: 2004, ‘‘A catalog of white light coronal mass ejections observed by the SOHO spacecraft’’, *Journal of Geophysical Research (Space Physics)* **109**, A07105.
- Yokoyama, T., and Shibata, K.: 1995, ‘‘Magnetic reconnection as the origin of X-ray jets and H α surges on the Sun’’, *Nature* **375**, 42.
- Yokoyama, T., and Shibata, K.: 1996, ‘‘Numerical Simulation of Solar Coronal X-Ray Jets Based on the Magnetic Reconnection Model’’, *Publ Astron Soc Jpn* **48**, 353.
- Zaqarashvili, T.V., and Erdélyi, R.: 2009, ‘‘Oscillations and Waves in Solar Spicules’’, *Space Science Reviews* **149**, 355.
- Zhang, M., and Low, B.C.: 2005, ‘‘The Hydromagnetic Nature of Solar Coronal Mass Ejections’’, *Annual Review of Astronomy and Astrophysics* **43**, 103.
- Zhang, Q.M., and Ji, H.S.: 2014, ‘‘Blobs in recurring extreme-ultraviolet jets’’, *Astron. Astrophys.* **567**, A11.

- Zhang, Q.M., Ji, H.S., and Su, Y.N.: 2016, “Observations of Multiple Blobs in Homologous Solar Coronal Jets in Closed Loop”, *Solar Phys.* **291**, 859.
- Zhang, Y., and Zhang, J.: 2017, “Cusp-shaped Structure of a Jet Observed By IRIS and SDO”, *Astrophys. J.* **834**, 79.
- Zhelyazkov, I.: 2013, “Kelvin-Helmholtz instability of kink waves in photospheric, chromospheric, and X-ray solar jets”, *American Institute of Physics Conference Series*, 150.
- Zhelyazkov, I., Chandra, R., and Srivastava, A.K.: 2017, “Star Formation Law at Sub-kpc Scale in the Elliptical Galaxy Centaurus A as Seen by ALMA”, *Advances in Astronomy* **2017**, 262649.
- Zhelyazkov, I. and Chandra, R.: 2018, “High mode magnetohydrodynamic waves propagation in a twisted rotating jet emerging from a filament eruption”, *Monthly Notices of the Royal Astronomical Society* **478**, 5505.
- Zhelyazkov, I., Zaqrashvili, T.V., Ofman, L., and Chandra, R.: 2018, “Kelvin-Helmholtz instability in a twisting solar polar coronal hole jet observed by SDO/AIA”, *Advances in Space Research* **61**, 628.
- Zhu, X., Wang, H., Cheng, X., and Huang, C.: 2017, “A Solar Blowout Jet Caused by the Eruption of a Magnetic Flux Rope”, *Astrophys. J.* **844**, L20.
- Zirker, J.B.: 1989, “Quiescent Prominences”, *Solar Physics* **119**, 341.
- Zirker, J.B., Martin, S.F., Harvey, K., and Gaizauskas, V.: 1997, “Global Magnetic Patterns of Chirality”, *Solar Physics* **175**, 27.
- Chitre, S.M.: 2003, “Overview of Solar Physics”, *Lectures on Solar Physics*, 1.

List of Publications

1. **Ritika Solanki**; A.K. Srivastava and B.N. Dwivedi, "Study of two-stage coronal jet associated with a C1.4 class solar flare", *Astrophysics and Space Science*, 363, article id. 233, 12 pages (2018).
2. **Ritika Solanki**; A.K. Srivastava; Y.K. Rao and B.N. Dwivedi, "Twin CME Launched by a Blowout Jet Originated from the Eruption of a Quiet-Sun Mini-filament", *Solar Physics*, 294, article id. 68, 22 pages (2019).
3. **Ritika Solanki**; A.K. Srivastava and B.N. Dwivedi, "CME Productive and Non-productive Recurring Jets Near an Active Region AR11176", *Solar Physics*, 295, article id. 27, 22 pages (2020).
4. **Ritika Solanki**; A.K. Srivastava and B.N. Dwivedi, "C-1.4 class flare and an associated peculiar coronal jet", *IAU Symposium, volume 340 of IAU Symposium*, pages 193-195 (2018).