# Bruce T Tsurutani

List of Publications by Year
in descending order

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| 500 | 29,496 | 4658 | 8163 |
|---|---|---|---|
| papers | citations | 85 h-index | 148 g-index |

| 511 | 511 | 511 | 5621 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

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| 1 | What is a geomagnetic storm?. Journal of Geophysical Research, 1994, 99, 5771. | 3.3 | 1,749 |
| 2 | Postmidnight chorus: A substorm phenomenon. Journal of Geophysical Research, 1974, 79, 118-127. | 3.3 | 579 |
| 3 | Interplanetary origin of geomagnetic storms. Space Science Reviews, 1999, 88, 529-562. | 8.1 | 531 |
| 4 | Origin of interplanetary southward magnetic fields responsible for major magnetic storms near solar maximum (1978â€“1979). Journal of Geophysical Research, 1988, 93, 8519-8531. | 3.3 | 527 |
| 5 | Criteria of interplanetary parameters causing intense magnetic storms (Dst < â^'100 nT). Planetary and Space Science, 1987, 35, 1101-1109. | 1.7 | 455 |
| 6 | The Cassini Magnetic Field Investigation. Space Science Reviews, 2004, 114, 331-383. | 8.1 | 434 |
| 7 | The extreme magnetic storm of 1â€“2 September 1859. Journal of Geophysical Research, 2003, 108, . | 3.3 | 422 |
| 8 | Interplanetary origin of geomagnetic activity in the declining phase of the solar cycle. Journal of Geophysical Research, 1995, 100, 21717-21733. | 3.3 | 403 |
| 9 | Global dayside ionospheric uplift and enhancement associated with interplanetary electric fields. Journal of Geophysical Research, 2004, 109, . | 3.3 | 401 |
| 10 | Dayside global ionospheric response to the major interplanetary events of October 29-30, 2003 â€œHalloween Stormsâ€• Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 401 |
| 11 | Two types of magnetospheric ELF chorus and their substorm dependences. Journal of Geophysical Research, 1977, 82, 5112-5128. | 3.3 | 398 |
| 12 | The cause of high-intensity long-duration continuous AE activity (HILDCAAs): Interplanetary AlfvÃ©n wave trains. Planetary and Space Science, 1987, 35, 405-412. | 1.7 | 398 |
| 13 | Corotating solar wind streams and recurrent geomagnetic activity: A review. Journal of Geophysical Research, 2006, 111, . | 3.3 | 396 |
| 14 | Lion roars and nonoscillatory drift mirror waves in the magnetosheath. Journal of Geophysical Research, 1982, 87, 6060-6072. | 3.3 | 374 |
| 15 | Current understanding of magnetic storms: Storm-substorm relationships. Journal of Geophysical Research, 1998, 103, 17705-17728. | 3.3 | 309 |
| 16 | Observations of the interplanetary sector structure up to heliographic latitudes of 16Â°: Pioneer 11. Journal of Geophysical Research, 1978, 83, 717-724. | 3.3 | 287 |
| 17 | The Interplanetary causes of magnetic storms: A review. Geophysical Monograph Series, 1997, , 77-89. | 0.1 | 279 |
| 18 | Solar windâ€•magnetosphere coupling during intense magnetic storms (1978â€•1979). Journal of Geophysical Research, 1989, 94, 8835-8851. | 3.3 | 271 |

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| 19 | The Heliospheric Magnetic Field Over the South Polar Region of the Sun. Science, 1995, 268, 1007-1010. | 12.6 | 269 |
| 20 | Great magnetic storms. Geophysical Research Letters, 1992, 19, 73-76. | 4.0 | 266 |
| 21 | Structure of the magnetotail at 220 R<sub>E</sub> and its response to geomagnetic activity. Geophysical Research Letters, 1984, 11, 5-7. | 4.0 | 256 |
| 22 | Interplanetary conditions causing intense geomagnetic storms (Dst â‰ â^'100 nT) during solar cycle 23 (1996â€“2006). Journal of Geophysical Research, 2008, 113, . | 3.3 | 238 |
| 23 | Two-step development of geomagnetic storms. Journal of Geophysical Research, 1998, 103, 6917-6921. | 3.3 | 233 |
| 24 | A Quarter Century of Collisionless Shock Research. Geophysical Monograph Series, 0, , 1-36. | 0.1 | 228 |
| 25 | Acceleration of >47 keV Ions and >2 keV electrons by interplanetary shocks at 1 AU. Journal of Geophysical Research, 1985, 90, 1-11. | 3.3 | 219 |
| 26 | Hydromagnetic waves and instabilities associated with cometary ion pickup: ICE observations. Geophysical Research Letters, 1986, 13, 263-266. | 4.0 | 213 |
| 27 | The October 28, 2003 extreme EUV solar flare and resultant extreme ionospheric effects: Comparison to other Halloween events and the Bastille Day event. Geophysical Research Letters, 2005, 32, . | 4.0 | 212 |
| 28 | Cassini Magnetometer Observations During Saturn Orbit Insertion. Science, 2005, 307, 1266-1270. | 12.6 | 211 |
| 29 | Strong hydromagnetic turbulence associated with comet Giacobiniâ€Zinner. Geophysical Research Letters, 1986, 13, 259-262. | 4.0 | 200 |
| 30 | Substorm associated traveling compression regions in the distant tail: Iseeâ€3 Geotail observations. Geophysical Research Letters, 1984, 11, 657-660. | 4.0 | 190 |
| 31 | Prompt penetration electric fields (PPEFs) and their ionospheric effects during the great magnetic storm of 30â€“31 October 2003. Journal of Geophysical Research, 2008, 113, . | 3.3 | 190 |
| 32 | International Cometary Explorer Encounter with Giacobini-Zinner: Magnetic Field Observations. Science, 1986, 232, 382-385. | 12.6 | 187 |
| 33 | The role of magnetosphere-ionosphere coupling in magnetic storm dynamics. Geophysical Monograph Series, 1997, , 107-116. | 0.1 | 179 |
| 34 | A reexamination of rotational and tangential discontinuities in the solar wind. Journal of Geophysical Research, 1984, 89, 5395-5408. | 3.3 | 176 |
| 35 | Plasma wave turbulence at the magnetopause: Observations from ISEE 1 and 2. Journal of Geophysical Research, 1979, 84, 7043-7058. | 3.3 | 175 |
| 36 | Rapid intensification and propagation of the dayside aurora: Large scale interplanetary pressure pulses (fast shocks). Geophysical Research Letters, 1999, 26, 1097-1100. | 4.0 | 173 |

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| 37 | magnetosheath lion roars. Journal of Geophysical Research, 1976, 81, 2261-2266. | 3.3 | 166 |
| 38 | Some basic concepts of wave-particle interactions in collisionless plasmas. Reviews of Geophysics, 1997, 35, 491-501. | 23.0 | 165 |
| 39 | The nonlinear response of AE to the IMF B<sub>S</sub> driver: A spectral break at 5 hours. Geophysical Research Letters, 1990, 17, 279-282. | 4.0 | 159 |
| 40 | Interplanetary shock triggering of nightside geomagnetic activity: Substorms, pseudobreakups, and quiescent events. Journal of Geophysical Research, 2001, 106, 18957-18967. | 3.3 | 156 |
| 41 | Interplanetary discontinuities: Temporal variations and the radial gradient from 1 to 8.5 AU. Journal of Geophysical Research, 1979, 84, 2773-2787. | 3.3 | 155 |
| 42 | RPC-MAG The Fluxgate Magnetometer in the ROSETTA Plasma Consortium. Space Science Reviews, 2007, 128, 649-670. | 8.1 | 154 |
| 43 | Plasma waves near the magnetopause. Journal of Geophysical Research, 1982, 87, 2087-2107. | 3.3 | 150 |
| 44 | Waves observed upstream of interplanetary shocks. Journal of Geophysical Research, 1983, 88, 5645-5656. | 3.3 | 149 |
| 45 | Global ionosphere perturbations monitored by the Worldwide GPS Network. Geophysical Research Letters, 1996, 23, 3219-3222. | 4.0 | 149 |
| 46 | Disappearance of the heliospheric sector structure at Ulysses. Geophysical Research Letters, 1993, 20, 2327-2330. | 4.0 | 138 |
| 47 | A brief review of â€œsolar flare effectsâ€•on the ionosphere. Radio Science, 2009, 44, . | 1.6 | 138 |
| 48 | Magnetic Field Observations During the Ulysses Flyby of Jupiter. Science, 1992, 257, 1515-1518. | 12.6 | 132 |
| 49 | Plasmaspheric hiss intensity variations during magnetic storms. Journal of Geophysical Research, 1974, 79, 2507-2510. | 3.3 | 130 |
| 50 | Diffusion processes in the magnetopause boundary layer. Geophysical Research Letters, 1982, 9, 1247-1250. | 4.0 | 128 |
| 51 | Evolution of the Earth's distant magnetotail: ISEE 3 electron plasma results. Journal of Geophysical Research, 1984, 89, 11007-11012. | 3.3 | 125 |
| 52 | A review of discontinuities and AlfvÃ©n waves in interplanetary space: Ulysses results. Reviews of Geophysics, 1999, 37, 517-541. | 23.0 | 125 |
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| 55 | Physics of Mass Loaded Plasmas. Space Science Reviews, 2000, 94, 429-671. | 8.1 | 123 |
| 56 | Dust Near The Sun. Space Science Reviews, 2004, 110, 269-305. | 8.1 | 122 |
| 57 | The relationship between interplanetary discontinuities and AlfvÃ©n waves: Ulysses observations. Geophysical Research Letters, 1994, 21, 2267-2270. | 4.0 | 121 |
| 58 | Interplanetary conditions leading to superintense geomagnetic storms (Dst â‰¤ â˜’250 nT) during solar cycle 23. Geophysical Research Letters, 2008, 35, . | 4.0 | 119 |
| 59 | Average configuration of the distant (<220 R<sub>e</sub>) magnetotail: Initial ISEEâ€3 magnetic field results. Geophysical Research Letters, 1983, 10, 973-976. | 4.0 | 117 |
| 60 | Shock drift acceleration. Geophysical Monograph Series, 1985, , 271-285. | 0.1 | 117 |
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| 64 | Propagation mechanism of daytime Pc 3â€“4 pulsations observed at synchronous orbit and multiple groundâ€based stations. Journal of Geophysical Research, 1985, 90, 6439-6450. | 3.3 | 115 |
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| 69 | Upstream waves and particles: An overview of ISEE results. Journal of Geophysical Research, 1981, 86, 4317-4324. | 3.3 | 109 |
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| 71 | The role of substorms in the generation of magnetic storms. Geophysical Monograph Series, 1997, , 131-147. | 0.1 | 107 |
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| 77 | Energetic protons accelerated at corotating shocks: Pioneer 10 and 11 observations from 1 to 6 AU. Journal of Geophysical Research, 1982, 87, 7389-7404. | 3.3 | 98 |
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| 80 | Survey of Poynting flux of whistler mode chorus in the outer zone. Journal of Geophysical Research, 2010, 115, . | 3.3 | 94 |
| 81 | Interplanetary origin of intense geomagnetic storms (Dst< â^'100 nT) during solar cycle 23. Geophysical Research Letters, 2007, 34, . | 4.0 | 93 |
| 82 | Intense space storms: Critical issues and open disputes. Journal of Geophysical Research, 2003, 108, . | 3.3 | 92 |
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| 84 | Magnetohydrodynamic and gasdynamic theories for planetary bow waves. Geophysical Monograph Series, 1985, , 85-107. | 0.1 | 91 |
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| 86 | Giacobiniâ€Zinner magnetotail: ICE magnetic field observations. Geophysical Research Letters, 1986, 13, 283-286. | 4.0 | 90 |
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| 88 | Plasma and energetic particle structure upstream of a quasiâ€parallel interplanetary shock. Journal of Geophysical Research, 1984, 89, 5419-5435. | 3.3 | 88 |
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| 92 | Effects of intense storms and substorms on the equatorial ionosphere/thermosphere system in the American sector from groundâ€based and satellite data. Journal of Geophysical Research, 1997, 102, 14305-14313. | 3.3 | 86 |
| 93 | The efficiency of â€œviscous interactionâ€•between the solar wind and the magnetosphere during intense northward IMF events. Geophysical Research Letters, 1995, 22, 663-666. | 4.0 | 84 |
| 94 | Magnetic cloud field intensities and solar wind velocities. Geophysical Research Letters, 1998, 25, 963-966. | 4.0 | 84 |
| 95 | Nonlinear AlfvÃ©n waves, discontinuities, proton perpendicular acceleration, and magnetic holes/decreases in interplanetary space and the magnetosphere: intermediate shocks?. Nonlinear Processes in Geophysics, 2005, 12, 321-336. | 1.3 | 84 |
| 96 | Observations of the rightâ€hand resonant ion beam instability in the distant plasma sheet boundary layer. Journal of Geophysical Research, 1985, 90, 12159-12172. | 3.3 | 83 |
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| 99 | Large amplitude IMF fluctuations in corotating interaction regions: Ulysses at midlatitudes. Geophysical Research Letters, 1995, 22, 3397-3400. | 4.0 | 80 |
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| 104 | Extremely intense ELF magnetosonic waves: A survey of polar observations. Journal of Geophysical Research: Space Physics, 2014, 119, 964-977. | 2.4 | 77 |
| 105 | The relationship between the IMF B<sub>y</sub> and the distant tail (150â€238 R<sub>e</sub>) lobe and plasmasheet B<sub>y</sub> fields. Geophysical Research Letters, 1984, 11, 1082-1085. | 4.0 | 76 |
| 106 | Resonant interactions between cometary ions and low frequency electromagnetic waves. Planetary and Space Science, 1987, 35, 1501-1511. | 1.7 | 75 |
| 107 | Geomagnetic Sudden impulses and storm sudden commencements: A note on terminology. Eos, 1990, 71, 1808. | 0.1 | 75 |
| 108 | Energetic electron (>10â€‰keV) microburst precipitation, ~5â€“15â€‰s Xâ€ray pulsations, chorus, and waveâ€particle interactions: A review. Journal of Geophysical Research: Space Physics, 2013, 118, 2296-2312. | 2.4 | 75 |

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| 110 | Relationship between the IMF magnitude and Pc 3 magnetic pulsations in the magnetosphere. Journal of Geophysical Research, 1984, 89, 9731-9740. | 3.3 | 72 |
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| 114 | Magnetic structure of the distant geotail from â^'60 to â^'220 R<sub>e</sub>: ISEEâ€3. Geophysical Research Letters, 1984, 11, 1-4. | 4.0 | 69 |
| 115 | Survey of lowâ€frequency electromagnetic waves stimulated by two coexisting newborn ion species. Journal of Geophysical Research, 1988, 93, 48-58. | 3.3 | 68 |
| 116 | On the generation of solitary waves observed by Cluster in the near-Earth magnetosheath. Nonlinear Processes in Geophysics, 2005, 12, 181-193. | 1.3 | 68 |
| 117 | The generation mechanism for magnetosheath lion roars. Nature, 1981, 293, 384-386. | 27.8 | 67 |
| 118 | Nonlinear magnetosonic waves and mirror mode structures in the March 1991 Ulysses interplanetary event. Geophysical Research Letters, 1992, 19, 1267-1270. | 4.0 | 67 |
| 119 | Anomalous geomagnetic storm of 21â€"22 January 2005: A storm main phase during northward IMFs. Journal of Geophysical Research, 2008, 113, . | 3.3 | 67 |
| 120 | Structure of the November 12, 1978, quasiâ€parallel interplanetary shock. Journal of Geophysical Research, 1984, 89, 5436-5452. | 3.3 | 66 |
| 121 | Phase-steepened AlfvÃ©n waves, proton perpendicular energization and the creation of magnetic holes and magnetic decreases: The ponderomotive force. Geophysical Research Letters, 2002, 29, 86-1-86-4. | 4.0 | 66 |
| 122 | Interplanetary origins of moderate (â^'100 nT < Dst â‰¤ â^'50 nT) geomagnetic storms during solar cycle 23 (1996â€"2008). Journal of Geophysical Research: Space Physics, 2013, 118, 385-392. | 2.4 | 66 |
| 123 | Plasmaspheric hiss properties: Observations from Polar. Journal of Geophysical Research: Space Physics, 2015, 120, 414-431. | 2.4 | 66 |
| 124 | Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2015, 33, 1031-1036. | 1.6 | 66 |
| 125 | Waveâ€particle interactions at the magnetopause: Contributions to the dayside aurora. Geophysical Research Letters, 1981, 8, 183-186. | 4.0 | 65 |
| 126 | Electromagnetic ion beam instabilities: II. Physics of Fluids, 1985, 28, 3691. | 1.4 | 65 |

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| 130 | Cometâ€solar wind interaction: Dynamical length scales and models. Geophysical Research Letters, 1986, 13, 239-242. | 4.0 | 64 |
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| 138 | A survey of low frequency waves at Jupiter: The Ulysses encounter. Journal of Geophysical Research, 1993, 98, 21203-21216. | 3.3 | 60 |
| 139 | Relationship between discontinuities, magnetic holes, magnetic decreases, and nonlinear AlfvÃ©n waves: Ulysses observations over the solar poles. Geophysical Research Letters, 2002, 29, 23-1. | 4.0 | 60 |
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| 141 | Generation mechanism for magnetic holes in the solar wind. Geophysical Research Letters, 2001, 28, 1355-1358. | 4.0 | 59 |
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| 152 | Energetics of magnetic storms driven by corotating interaction regions: A study of geoeffectiveness. Geophysical Monograph Series, 2006, , 113-124. | 0.1 | 52 |
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| 160 | Magnetosonic waves adjacent to the plasma sheet in the distant magnetotail: ISEEâ€3. Geophysical Research Letters, 1984, 11, 331-334. | 4.0 | 49 |
| 161 | Mirror instability and Lâ€mode electromagnetic ion cyclotron instability: Competition in the Earth's magnetosheath. Journal of Geophysical Research, 2009, 114, . | 3.3 | 49 |
| 162 | The properties of two solar wind high speed streams and related geomagnetic activity during the declining phase of solar cycle 23. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 164-177. | 1.6 | 49 |

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| 168 | First direct magnetic field measurements of an asteroidal magnetic field: DS1 at Braille. Geophysical Research Letters, 2001, 28, 1913-1916. | 4.0 | 47 |
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