

Arik Posner

List of Publications by Year in descending order

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75
papers

7,060
citations

94433

37
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79698

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docs citations

77
times ranked

5168
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777. | 12.6 | 687 |
| 2 | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480. | 12.6 | 508 |
| 3 | Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. <i>Science</i> , 2013, 340, 1080-1084. | 12.6 | 503 |
| 4 | Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797. | 12.6 | 475 |
| 5 | Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937. | 12.6 | 367 |
| 6 | X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932. | 12.6 | 327 |
| 7 | Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266. | 12.6 | 327 |
| 8 | Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072. | 12.6 | 326 |
| 9 | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267. | 12.6 | 323 |
| 10 | Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734. | 12.6 | 246 |
| 11 | In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166. | 12.6 | 224 |
| 12 | Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670. | 12.6 | 215 |
| 13 | The Radiation Assessment Detector (RAD) Investigation. <i>Space Science Reviews</i> , 2012, 170, 503-558. | 8.1 | 155 |
| 14 | Strong coronal channelling and interplanetary evolution of a solar storm up to Earth and Mars. <i>Nature Communications</i> , 2015, 6, 7135. | 12.8 | 142 |
| 15 | The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463. | 12.6 | 134 |
| 16 | The suprathreshold seed population for corotating interaction region ions at 1 AU deduced from composition and spectra of H ⁺ , He ⁺⁺ , and He ⁺ observed on Wind. <i>Journal of Geophysical Research</i> , 2000, 105, 23107-23122. | 3.3 | 119 |
| 17 | Up to 1-hour forecasting of radiation hazards from solar energetic ion events with relativistic electrons. <i>Space Weather</i> , 2007, 5, n/a-n/a. | 3.7 | 115 |
| 18 | Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357. | 12.6 | 103 |

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|----|--|------|-----------|
| 19 | Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227. | 27.8 | 103 |
| 20 | Interplanetary coronal mass ejection observed at STEREO, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7865-7890. | 2.4 | 87 |
| 21 | CIR Morphology, Turbulence, Discontinuities, and Energetic Particles. <i>Space Science Reviews</i> , 1999, 89, 179-220. | 8.1 | 79 |
| 22 | The Solar Origin of Corotating Interaction Regions and Their Formation in the Inner Heliosphere. <i>Space Science Reviews</i> , 1999, 89, 141-178. | 8.1 | 78 |
| 23 | The Martian surface radiation environment – a comparison of models and MSL/RAD measurements. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A13. | 3.3 | 70 |
| 24 | Lunar radiation environment and space weathering from the Cosmic Ray Telescope for the Effects of Radiation (CRaTER). <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 67 |
| 25 | Ulysses COSPIN observations of cosmic rays and solar energetic particles from the South Pole to the North Pole of the Sun during solar maximum. <i>Annales Geophysicae</i> , 2003, 21, 1217-1228. | 1.6 | 65 |
| 26 | Charged particle spectra obtained with the Mars Science Laboratory Radiation Assessment Detector (MSL/RAD) on the surface of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 468-479. | 3.6 | 64 |
| 27 | Earth-Moon-Mars Radiation Environment Module framework. <i>Space Weather</i> , 2010, 8, n/a-n/a. | 3.7 | 62 |
| 28 | Modeling the Evolution and Propagation of 10 September 2017 CMEs and SEPs Arriving at Mars Constrained by Remote Sensing and In Situ Measurement. <i>Space Weather</i> , 2018, 16, 1156-1169. | 3.7 | 61 |
| 29 | Measurements of the neutron spectrum on the Martian surface with MSL/RAD. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 594-603. | 3.6 | 58 |
| 30 | Properties of high heliolatitude solar energetic particle events and constraints on models of acceleration and propagation. <i>Geophysical Research Letters</i> , 2003, 30, . | 4.0 | 57 |
| 31 | Energetic Particle Observations. <i>Space Science Reviews</i> , 2006, 123, 217-250. | 8.1 | 51 |
| 32 | The onset of solar energetic particle events: prompt release of deka-MeV protons and associated coronal activity. <i>Astronomy and Astrophysics</i> , 2005, 438, 1029-1042. | 5.1 | 49 |
| 33 | Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1345-1358. | 3.6 | 44 |
| 34 | MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST MSL MARTIAN YEAR: 2012–2014. <i>Astrophysical Journal</i> , 2015, 810, 24. | 4.5 | 43 |
| 35 | Differences in the temporal variations of galactic cosmic ray electrons and protons: Implications from Ulysses at solar minimum. <i>Geophysical Research Letters</i> , 1999, 26, 2133-2136. | 4.0 | 42 |
| 36 | Comparison of Martian surface ionizing radiation measurements from MSL RAD with Badhwar-Neill 2011/HZETRN model calculations. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1311-1321. | 3.6 | 42 |

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|----|---|-----|-----------|
| 37 | Delay in solar energetic particle onsets at high heliographic latitudes. <i>Annales Geophysicae</i> , 2003, 21, 1367-1375. | 1.6 | 37 |
| 38 | The first widespread solar energetic particle event observed by Solar Orbiter on 2020 November 29. <i>Astronomy and Astrophysics</i> , 2021, 656, A20. | 5.1 | 36 |
| 39 | Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58. | 5.1 | 35 |
| 40 | Measurements of the neutron spectrum in transit to Mars on the Mars Science Laboratory. <i>Life Sciences in Space Research</i> , 2015, 5, 6-12. | 2.3 | 34 |
| 41 | Amplitude evolution and rigidity dependence of the 26-day recurrent cosmic ray decreases: COSPIN/KET results. <i>Journal of Geophysical Research</i> , 1999, 104, 28241-28247. | 3.3 | 32 |
| 42 | Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233. | 8.1 | 30 |
| 43 | Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. <i>Astronomy and Astrophysics</i> , 2018, 611, A79. | 5.1 | 29 |
| 44 | ³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42. | 7.7 | 27 |
| 45 | Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35. | 7.7 | 27 |
| 46 | Association of Low-Charge-State Heavy Ions up to 200 Reupstream of the Earth's bow shock with geomagnetic disturbances. <i>Geophysical Research Letters</i> , 2002, 29, 3-1. | 4.0 | 26 |
| 47 | Solar Energetic Particles and Radio-quiet Fast Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2006, 642, 1222-1235. | 4.5 | 26 |
| 48 | 3-20 MeV Electrons in the Inner Three-dimensional Heliosphere at Solar Maximum: Ulysses/COSPIN/KET Observations. <i>Astrophysical Journal</i> , 2002, 579, 888-894. | 4.5 | 24 |
| 49 | On determining the zenith angle dependence of the Martian radiation environment at Gale Crater altitudes. <i>Geophysical Research Letters</i> , 2015, 42, 10,557. | 4.0 | 21 |
| 50 | Solar energetic particle warnings from a coronagraph. <i>Space Weather</i> , 2017, 15, 240-257. | 3.7 | 21 |
| 51 | The Hohmann-Parker effect measured by the Mars Science Laboratory on the transfer from Earth to Mars: Consequences and opportunities. <i>Planetary and Space Science</i> , 2013, 89, 127-139. | 1.7 | 20 |
| 52 | In-ecliptic CIR-associated energetic particle events and polar coronal hole structures: SOHO/COSTEP observations for the Whole Sun Month Campaign. <i>Journal of Geophysical Research</i> , 1999, 104, 9881-9890. | 3.3 | 18 |
| 53 | MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294. | 0.8 | 18 |
| 54 | Nature of the boundary between open and closed magnetic field line regions at the Sun revealed by composition data and numerical models. <i>Journal of Geophysical Research</i> , 2001, 106, 15869-15879. | 3.3 | 17 |

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| 55 | Using Forbush Decreases to Derive the Transit Time of ICMEs Propagating from 1 AU to Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 39-56. | 2.4 | 17 |
| 56 | A Multi-Purpose Heliophysics L4 Mission. <i>Space Weather</i> , 2021, 19, e2021SW002777. | 3.7 | 15 |
| 57 | A high energy telescope for the Solar Orbiter. <i>Advances in Space Research</i> , 2005, 36, 1426-1431. | 2.6 | 14 |
| 58 | A New Trend in Forecasting Solar Radiation Hazards. <i>Space Weather</i> , 2009, 7, . | 3.7 | 12 |
| 59 | The Ulysses fast latitude scans: COSPIN/KET results. <i>Annales Geophysicae</i> , 2003, 21, 1275-1288. | 1.6 | 11 |
| 60 | Suprathermal ions ahead of interplanetary shocks: New observations and critical instrumentation required for future space weather monitoring. <i>Space Weather</i> , 2004, 2, n/a-n/a. | 3.7 | 11 |
| 61 | The main pillar: Assessment of space weather observational asset performance supporting nowcasting, forecasting, and research to operations. <i>Space Weather</i> , 2014, 12, 257-276. | 3.7 | 10 |
| 62 | Warning Time Analysis From SEP Simulations of a Two-Tier REleASE System Applied to Mars Exploration. <i>Space Weather</i> , 2020, 18, e2019SW002354. | 3.7 | 10 |
| 63 | First Observations of Anomalous Cosmic Rays in to 36 Solar Radii. <i>Astrophysical Journal</i> , 2021, 912, 139. | 4.5 | 10 |
| 64 | Quiet time MEV electron increases at solar maximum: Ulysses cospin/ket observations. <i>Advances in Space Research</i> , 2003, 32, 663-668. | 2.6 | 6 |
| 65 | Earth-Moon-Mars Radiation Environment Module (EMMREM). , 2007, , . | | 6 |
| 66 | Automatic Near-Real-Time Detection of CMEs in Mauna Loa K&C Cor Coronagraph Images. <i>Space Weather</i> , 2017, 15, 1288-1299. | 3.7 | 6 |
| 67 | Detecting Upward Directed Charged Particle Fluxes in the Mars Science Laboratory Radiation Assessment Detector. <i>Earth and Space Science</i> , 2018, 5, 2-18. | 2.6 | 6 |
| 68 | Energetic particle signatures of a corotating interaction region from a high latitude coronal hole: SOHO, wind and Ulysses observations. <i>Advances in Space Research</i> , 2000, 26, 865-870. | 2.6 | 5 |
| 69 | The Electron Proton Helium INstrument as an example for a Space Weather Radiation Instrument. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 53. | 3.3 | 5 |
| 70 | The Radiation Assessment Detector (RAD) Investigation. , 2012, , 503-558. | | 5 |
| 71 | Upstream magnetospheric ion flux tube within a magnetic cloud: Wind/STICS. <i>Geophysical Research Letters</i> , 2003, 30, . | 4.0 | 4 |
| 72 | Electron/positron measurements obtained with the Mars Science Laboratory Radiation Assessment Detector on the surface of Mars. <i>Annales Geophysicae</i> , 2016, 34, 133-141. | 1.6 | 4 |

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| 73 | The Solar Origin of Corotating Interaction Regions and their Formation in the Inner Heliosphere. Space Sciences Series of ISSI, 1999, , 141-178. | 0.0 | 4 |
| 74 | Energetic Particle Observations. Space Sciences Series of ISSI, 2006, , 217-250. | 0.0 | 2 |
| 75 | Relationships of corotating rarefaction regions outside 40AU with solar observations: Heliospheric mass loading. COSPAR Colloquia Series, 2001, 11, 315-319. | 0.2 | 1 |