

# D K Haggerty

## List of Publications by Year in descending order

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89  
papers

3,124  
citations

185998

28  
h-index

161609

54  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2094  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Loss of Energetic Ions Comprising the Ring Current Populations of Jupiter's Middle and Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .                            | 0.8 | 4         |
| 2  | Callisto's Atmosphere and Its Space Environment: Prospects for the Particle Environment Package on Board JUICE. <i>Earth and Space Science</i> , 2022, 9, .   | 1.1 | 6         |
| 3  | SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.   | 3.7 | 26        |
| 4  | Jupiter's Ion Radiation Belts Inward of Europa's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028925.   | 0.8 | 10        |
| 5  | Energy Spectra Near Ganymede From Juno Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093021.   | 1.5 | 10        |
| 6  | Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028052.              | 0.8 | 21        |
| 7  | The Energetic Particle Detector. <i>Astronomy and Astrophysics</i> , 2020, 642, A7.   | 2.1 | 107       |
| 8  | Juno Energetic Neutral Atom (ENA) Remote Measurements of Magnetospheric Injection Dynamics in Jupiter's Io Torus Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027964. | 0.8 | 11        |
| 9  | Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027699.                  | 0.8 | 47        |
| 10 | Jovian Auroral Ion Precipitation: X-Ray Production From Oxygen and Sulfur Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027007.                                  | 0.8 | 20        |
| 11 | <sup>3</sup> He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.                                       | 3.0 | 27        |
| 12 | Energetic Proton Acceleration Associated With Io's Footprint Tail. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090839.   | 1.5 | 16        |
| 13 | Energetic Neutral Atoms From Jupiter's Polar Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028697.   | 0.8 | 2         |
| 14 | Jovian Injections Observed at High Latitude. <i>Geophysical Research Letters</i> , 2019, 46, 9397-9404.   | 1.5 | 17        |
| 15 | Investigation of Mass/Charge-Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5539-5567.                | 0.8 | 15        |
| 16 | High-Energy (>10 MeV) Oxygen and Sulfur Ions Observed at Jupiter From Pulse Width Measurements of the JEDI Sensors. <i>Geophysical Research Letters</i> , 2019, 46, 10959-10966.                            | 1.5 | 2         |
| 17 | Io's Effect on Energetic Charged Particles as Seen in Juno Data. <i>Geophysical Research Letters</i> , 2019, 46, 13615-13620.   | 1.5 | 12        |
| 18 | Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1989-1999.   | 0.8 | 35        |

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|----|---|------|-----------|
| 19 | Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. <i>Geophysical Research Letters</i> , 2018, 45, 1277-1285.   | 1.5  | 49        |
| 20 | Flat Proton Spectra in Large Solar Energetic Particle Events. <i>Journal of Physics: Conference Series</i> , 2018, 1100, 012014.  | 0.3  | 11        |
| 21 | Precipitating Electron Energy Flux and Characteristic Energies in Jupiter's Main Auroral Region as Measured by Juno/JEDI. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7554-7567. | 0.8  | 42        |
| 22 | Science planning and commanding for Jupiter. , 2017, , .  |      | 0         |
| 23 | The Mushroom: A half-Åskey energetic ion and electron detector. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1513-1530.   | 0.8  | 40        |
| 24 | Juno/JEDI observations of 0.01 to >10 MeV energetic ions in the Jovian auroral regions: Anticipating a source for polar X-ray emission. <i>Geophysical Research Letters</i> , 2017, 44, 6476-6482.      | 1.5  | 16        |
| 25 | A heavy ion and proton radiation belt inside of Jupiter's rings. <i>Geophysical Research Letters</i> , 2017, 44, 5259-5268.   | 1.5  | 28        |
| 26 | Searching for low-altitude magnetic field anomalies by using observations of the energetic particle loss cone on JUNO. <i>Geophysical Research Letters</i> , 2017, 44, 4472-4480.                       | 1.5  | 3         |
| 27 | Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. <i>Geophysical Research Letters</i> , 2017, 44, 4410-4418. | 1.5  | 90        |
| 28 | Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. <i>Geophysical Research Letters</i> , 2017, 44, 4419-4425.   | 1.5  | 21        |
| 29 | Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. <i>Geophysical Research Letters</i> , 2017, 44, 4426-4431.   | 1.5  | 10        |
| 30 | Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. <i>Geophysical Research Letters</i> , 2017, 44, 4489-4496.                                      | 1.5  | 6         |
| 31 | Jovian bow shock and magnetopause encounters by the Juno spacecraft. <i>Geophysical Research Letters</i> , 2017, 44, 4506-4512.   | 1.5  | 30        |
| 32 | Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. <i>Geophysical Research Letters</i> , 2017, 44, 8703-8711.   | 1.5  | 41        |
| 33 | Discrete and broadband electron acceleration in Jupiter's powerful aurora. <i>Nature</i> , 2017, 549, 66-69.  | 13.7 | 79        |
| 34 | The Jupiter Energetic Particle Detector Instrument (JEDI) Investigation for the Juno Mission. <i>Space Science Reviews</i> , 2017, 213, 289-346.  | 3.7  | 148       |
| 35 | The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7900-7913.                                       | 0.8  | 15        |
| 36 | LONGITUDINAL PROPERTIES OF A WIDESPREAD SOLAR ENERGETIC PARTICLE EVENT ON 2014 FEBRUARY 25: EVOLUTION OF THE ASSOCIATED CME SHOCK. <i>Astrophysical Journal</i> , 2016, 819, 72.                        | 1.6  | 72        |

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|----|---|-----|-----------|
| 37 | Plasma and energetic particle observations in Jupiter's deep tail near the magnetopause. Journal of Geophysical Research: Space Physics, 2014, 119, 6432-6444.                            | 0.8 | 4         |
| 38 | OBSERVATIONS OF SOLAR ENERGETIC PARTICLES FROM <sup>3</sup> He-RICH EVENTS OVER A WIDE RANGE OF HELIOGRAPHIC LONGITUDE. Astrophysical Journal, 2013, 762, 54.                             | 1.6 | 109       |
| 39 | Processes forming and sustaining Saturn's proton radiation belts. Icarus, 2013, 222, 323-341.   | 1.1 | 45        |
| 40 | Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). Space Science Reviews, 2013, 179, 263-308.  | 3.7 | 155       |
| 41 | Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). , 2013, , 263-308.  |     | 11        |
| 42 | The Jupiter Energetic Particle Detector Instrument (JEDI) Investigation for the Juno Mission. , 2013, , 471-528.  |     | 1         |
| 43 | Observations of the longitudinal spread of solar energetic particle events in solar cycle 24. AIP Conference Proceedings, 2012, , .   | 0.3 | 1         |
| 44 | Evolution of suprathermal seed particle and solar energetic particle abundances. AIP Conference Proceedings, 2012, , .  | 0.3 | 5         |
| 45 | Energy Spectra, Composition, and Other Properties of Ground-Level Events During Solar Cycle 23. Space Science Reviews, 2012, 171, 97-120.   | 3.7 | 139       |
| 46 | INTERPLANETARY PROPAGATION OF SOLAR ENERGETIC PARTICLE HEAVY IONS OBSERVED AT 1 AU AND THE ROLE OF ENERGY SCALING. Astrophysical Journal, 2012, 761, 104.                                 | 1.6 | 45        |
| 47 | MAGNETIC FIELD-LINE LENGTHS IN INTERPLANETARY CORONAL MASS EJECTIONS INFERRED FROM ENERGETIC ELECTRON EVENTS. Astrophysical Journal, 2011, 736, 106.                                      | 1.6 | 28        |
| 48 | THE CORONAL AND HELIOSPHERIC 2007 MAY 19 EVENT: CORONAL MASS EJECTION, EXTREME ULTRAVIOLET IMAGER WAVE, RADIO BURSTS, AND ENERGETIC ELECTRONS. Astrophysical Journal, 2010, 715, 468-476. | 1.6 | 10        |
| 49 | Organization of Energetic Particles by the Solar Wind Structure During the Declining to Minimum Phase of Solar Cycle 23. Solar Physics, 2010, 263, 239-261.                               | 1.0 | 12        |
| 50 | Observations of a <sup>3</sup> He-rich SEP Event over a Broad Range of Heliographic Longitudes: Results from STEREO and ACE. AIP Conference Proceedings, 2010, , .                        | 0.3 | 11        |
| 51 | Evidence for extended acceleration of solar flare ions from 1-8 MeV solar neutrons detected with the MESSENGER Neutron Spectrometer. Journal of Geophysical Research, 2010, 115, .        | 3.3 | 26        |
| 52 | Multipoint connectivity analysis of the May 2007 solar energetic particle events. Journal of Geophysical Research, 2010, 115, .   | 3.3 | 8         |
| 53 | Understanding large SEP events with the PATH code: Modeling of the 13 December 2006 SEP event. Journal of Geophysical Research, 2010, 115, .  | 3.3 | 49        |
| 54 | Probing SEP Acceleration Processes With Near-relativistic Electrons. , 2009, , .  |     | 5         |

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|----|---|-----|-----------|
| 55 | Energetic particle evidence for magnetic filaments in Jupiter's magnetotail. Journal of Geophysical Research, 2009, 114, .  | 3.3 | 18        |
| 56 | Composition of energetic particles in the Jovian magnetotail. Journal of Geophysical Research, 2009, 114, .   | 3.3 | 23        |
| 57 | How Efficient are Coronal Mass Ejections at Accelerating Solar Energetic Particles?. AIP Conference Proceedings, 2008, , .  | 0.3 | 18        |
| 58 | Preliminary Results from SEP and ESP Studies. AIP Conference Proceedings, 2008, , .   | 0.3 | 1         |
| 59 | On the Solar Origins of Open Magnetic Fields in the Heliosphere. Astrophysical Journal, 2008, 687, 635-645.   | 1.6 | 26        |
| 60 | Radiation risks from large solar energetic particle events. AIP Conference Proceedings, 2007, , .   | 0.3 | 9         |
| 61 | Energetic Particles in the Jovian Magnetotail. Science, 2007, 318, 220-222.   | 6.0 | 50        |
| 62 | Numerous small magnetic field discontinuities of Bartels rotation 2286 and the potential role of Alfvénic turbulence. Journal of Geophysical Research, 2007, 112, . | 3.3 | 111       |
| 63 | Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Science Reviews, 2007, 130, 323-328.  | 3.7 | 43        |
| 64 | Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Sciences Series of ISSI, 2007, , 323-328.   | 0.0 | 4         |
| 65 | Qualitative comparison of ACE/EPAM data from different detector heads: Implications for NOAA RTSW users. Advances in Space Research, 2006, 38, 995-1000.            | 1.2 | 14        |
| 66 | Leading edge and peak flux density exciter speeds for well connected type-III bursts. Advances in Space Research, 2006, 38, 1001-1006.                              | 1.2 | 4         |
| 67 | Effectiveness of anti-coincidence in electron detectors: Implications for beam-like electron events. Advances in Space Research, 2006, 38, 990-994.                 | 1.2 | 3         |
| 68 | Absence of energetic particle effects associated with magnetic reconnection exhausts in the solar wind. Geophysical Research Letters, 2005, 32, n/a-n/a.            | 1.5 | 71        |
| 69 | Proton, helium, and electron spectra during the large solar particle events of October-November 2003. Journal of Geophysical Research, 2005, 110, .                 | 3.3 | 187       |
| 70 | Monte Carlo simulations of CASSINI/LEMMS. Advances in Space Research, 2004, 33, 2303-2308.  | 1.2 | 5         |
| 71 | Miniaturized electron magnetic spectrometer. Advances in Space Research, 2003, 32, 389-394.   | 1.2 | 0         |
| 72 | Electron scattering in solid state detectors: Geant 4 simulations. Advances in Space Research, 2003, 32, 423-428.   | 1.2 | 17        |

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|----|--|-----|-----------|
| 73 | Escaping near-relativistic electron beams from the solar corona. <i>Advances in Space Research</i> , 2003, 32, 2673-2678.  | 1.2 | 19        |
| 74 | Are CME "interactions" really important for accelerating major solar energetic particle events?. <i>Geophysical Research Letters</i> , 2003, 30, .                                 | 1.5 | 20        |
| 75 | An Interstellar Neutral Atom Detector (INAD). <i>AIP Conference Proceedings</i> , 2003, , .  | 0.3 | 3         |
| 76 | Impulsive Near-relativistic Solar Electron Events: Delayed Injection with Respect to Solar Electromagnetic Emission. <i>Astrophysical Journal</i> , 2002, 579, 841-853.            | 1.6 | 171       |
| 77 | The Acceleration and Release of Near-relativistic Electrons by Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2002, 579, 854-862.  | 1.6 | 87        |
| 78 | ACE Observations of the Bastille Day 2000 Interplanetary Disturbances. <i>Solar Physics</i> , 2001, 204, 227-252.  | 1.0 | 50        |
| 79 | Title is missing!. <i>Space Science Reviews</i> , 2001, 97, 277-280.   | 3.7 | 16        |
| 80 | Joint Ulysses and ACE Observations of a Magnetic Cloud and the Associated Solar Energetic Particle Event. , 2001, , 277-280.   |     | 2         |
| 81 | Two distinct plasma and energetic ion distributions within the June 1998 magnetic cloud. <i>AIP Conference Proceedings</i> , 2000, , .   | 0.3 | 5         |
| 82 | A survey of 40-300 keV electron events with beam-like anisotropies. <i>AIP Conference Proceedings</i> , 2000, , .  | 0.3 | 0         |
| 83 | Suprathermal ions and MHD turbulence observed upstream of an interplanetary shock by Advanced Composition Explorer. <i>Journal of Geophysical Research</i> , 2000, 105, 7521-7531. | 3.3 | 12        |
| 84 | Interplanetary magnetic field connection to the L1 Lagrangian orbit during upstream energetic ion events. <i>Journal of Geophysical Research</i> , 2000, 105, 25123-25131.         | 3.3 | 18        |
| 85 | Simultaneous observations of energetic (~150 keV) protons upstream of the Earth's bow shock at ACE and WIND. <i>Geophysical Research Letters</i> , 1999, 26, 169-172.              | 1.5 | 8         |
| 86 | Observations of Jovian upstream events by Ulysses. <i>Journal of Geophysical Research</i> , 1999, 104, 4629-4642.  | 3.3 | 20        |
| 87 | Electron, Proton, and Alpha Monitor on the Advanced Composition Explorer spacecraft. <i>Space Science Reviews</i> , 1998, 86, 541-562.   | 3.7 | 281       |
| 88 | Observation by Ulysses of hot (~270 keV) coronal particles at 32° south heliolatitude and 4.6 AU. <i>Geophysical Research Letters</i> , 1994, 21, 1747-1750.                       | 1.5 | 32        |
| 89 | Energetic charged particle fluxes relevant to Ganymede's polar region. <i>Geophysical Research Letters</i> , 0, , .  | 1.5 | 6         |