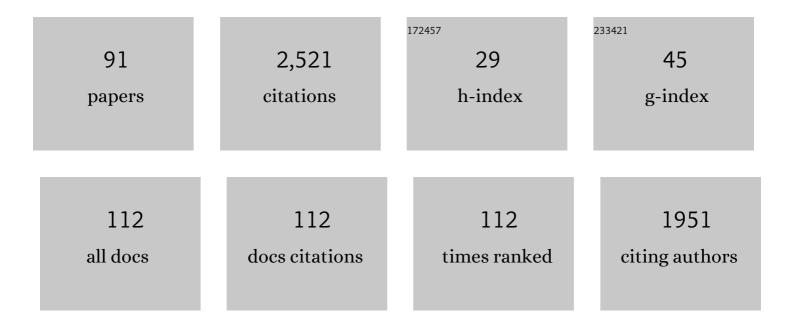
Daniel Welling

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Measures of Model Performance Based On the Log Accuracy Ratio. Space Weather, 2018, 16, 69-88. | 3.7 | 168 |
| 2 | Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856. | 3.7 | 149 |
| 3 | Circulation of Heavy Ions and Their Dynamical Effects in the Magnetosphere: Recent Observations and Models. Space Science Reviews, 2014, 184, 173-235. | 8.1 | 130 |
| 4 | Modeling ionospheric outflows and their impact on the magnetosphere, initial results. Journal of Geophysical Research, 2009, 114, . | 3.3 | 114 |
| 5 | Comparative study of ring current development using empirical, dipolar, and selfâ€consistent magnetic field simulations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 91 |
| 6 | Geospace environment modeling 2008–2009 challenge: <i>D</i> _{st} index. Space Weather, 2013, 11, 187-205. | 3.7 | 69 |
| 7 | Temporal and Spatial Evolutions of a Large Sunspot Group and Great Auroral Storms Around the Carrington Event in 1859. Space Weather, 2019, 17, 1553-1569. | 3.7 | 68 |
| 8 | Model Evaluation Guidelines for Geomagnetic Index Predictions. Space Weather, 2018, 16, 2079-2102. | 3.7 | 62 |
| 9 | Validation of SWMF magnetic field and plasma. Space Weather, 2010, 8, n/a-n/a. | 3.7 | 59 |
| 10 | The effects of dynamic ionospheric outflow on the ring current. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 58 |
| 11 | New DMSP database of precipitating auroral electrons and ions. Journal of Geophysical Research: Space Physics, 2017, 122, 9056-9067. | 2.4 | 55 |
| 12 | The Earth: Plasma Sources, Losses, and Transport Processes. Space Science Reviews, 2015, 192, 145-208. | 8.1 | 54 |
| 13 | On the Littleâ€Known Consequences of the 4 August 1972 Ultraâ€Fast Coronal Mass Ejecta: Facts, Commentary, and Call to Action. Space Weather, 2018, 16, 1635-1643. | 3.7 | 49 |
| 14 | SWMF Global Magnetosphere Simulations of January 2005: Geomagnetic Indices and Crossâ€₽olar Cap Potential. Space Weather, 2017, 15, 1567-1587. | 3.7 | 44 |
| 15 | Selfâ€consistent inner magnetosphere simulation driven by a global MHD model. Journal of Geophysical Research, 2010, 115, . | 3.3 | 43 |
| 16 | Numerical considerations in simulating the global magnetosphere. Annales Geophysicae, 2010, 28, 1589-1614. | 1.6 | 42 |
| 17 | Including gap region fieldâ€aligned currents and magnetospheric currents in the MHD calculation of groundâ€based magnetic field perturbations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 42 |
| 18 | Exploring sources of magnetospheric plasma using multispecies MHD. Journal of Geophysical Research, 2010, 115, . | 3.3 | 41 |

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| 19 | Modes of high″atitude auroral conductance variability derived from DMSP energetic electron precipitation observations: Empirical orthogonal function analysis. Journal of Geophysical Research: Space Physics, 2015, 120, 11,013. | 2.4 | 37 |
| 20 | The Extreme Space Weather Event in 1903 October/November: An Outburst from the Quiet Sun. Astrophysical Journal Letters, 2020, 897, L10. | 8.3 | 36 |
| 21 | SpacePy - A Python-based Library of Tools for the Space Sciences. , 2010, , . | | 36 |
| 22 | Comparison of predictive estimates of highâ€latitude electrodynamics with observations of globalâ€scale Birkeland currents. Space Weather, 2017, 15, 352-373. | 3.7 | 35 |
| 23 | On the Regional Variability of d <i>B</i> /d <i>t</i> and Its Significance to GIC. Space Weather, 2020, 18, e2020SW002497. | 3.7 | 35 |
| 24 | Nowcast model for lowâ€energy electrons in the inner magnetosphere. Space Weather, 2015, 13, 16-34. | 3.7 | 34 |
| 25 | A new DMSP magnetometer and auroral boundary data set and estimates of fieldâ€aligned currents in dynamic auroral boundary coordinates. Journal of Geophysical Research: Space Physics, 2017, 122, 9068-9079. | 2.4 | 34 |
| 26 | The twoâ€way relationship between ionospheric outflow and the ring current. Journal of Geophysical Research: Space Physics, 2015, 120, 4338-4353. | 2.4 | 33 |
| 27 | Exploring predictive performance: A reanalysis of the geospace model transition challenge. Space Weather, 2017, 15, 192-203. | 3.7 | 33 |
| 28 | Optimal interpolation analysis of highâ€latitude ionospheric Hall and Pedersen conductivities: Application to assimilative ionospheric electrodynamics reconstruction. Journal of Geophysical Research: Space Physics, 2016, 121, 4898-4923. | 2.4 | 32 |
| 29 | Realâ€Time SWMF at CCMC: Assessing the Dst Output From Continuous Operational Simulations. Space Weather, 2018, 16, 1583-1603. | 3.7 | 32 |
| 30 | Perturbed Input Ensemble Modeling With the Space Weather Modeling Framework. Space Weather, 2018, 16, 1330-1347. | 3.7 | 32 |
| 31 | What sustained multi-disciplinary research can achieve: The space weather modeling framework. Journal of Space Weather and Space Climate, 2021, 11, 42. | 3.3 | 32 |
| 32 | The effect of magnetopause motion on fast mode resonance. Journal of Geophysical Research: Space Physics, 2014, 119, 8212-8227. | 2.4 | 29 |
| 33 | The global structure and time evolution of dayside magnetopause surface eigenmodes. Geophysical Research Letters, 2015, 42, 2594-2602. | 4.0 | 29 |
| 34 | Outflow in global magnetohydrodynamics as a function of a passive inner boundary source. Journal of Geophysical Research: Space Physics, 2014, 119, 2691-2705. | 2.4 | 27 |
| 35 | Communityâ€wide validation of geospace model local Kâ€index predictions to support model transition to operations. Space Weather, 2016, 14, 469-480. | 3.7 | 27 |
| 36 | Recommendations for Nextâ€Generation Ground Magnetic Perturbation Validation. Space Weather, 2018, 16, 1912-1920. | 3.7 | 27 |

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| 37 | Advances in Space Weather Ensemble Forecasting. Space Weather, 2016, 14, 52-53. | 3.7 | 25 |
| 38 | Conductance Model for Extreme Events: Impact of Auroral Conductance on Space Weather Forecasts. Space Weather, 2020, 18, e2020SW002551. | 3.7 | 24 |
| 39 | A Case Study on the Origin of Nearâ€Earth Plasma. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028205. | 2.4 | 23 |
| 40 | Ionospheric outflow and cross polar cap potential: What is the role of magnetospheric inflation?. Geophysical Research Letters, 2012, 39, . | 4.0 | 22 |
| 41 | Inverse procedure for highâ€latitude ionospheric electrodynamics: Analysis of satelliteâ€borne magnetometer data. Journal of Geophysical Research: Space Physics, 2015, 120, 5241-5251. | 2.4 | 22 |
| 42 | Impact of equinoctial high-speed stream structures on thermospheric responses. Space Weather, 2014, 12, 277-297. | 3.7 | 20 |
| 43 | Spaceâ€Based Sentinels for Measurement of Infrared Cooling in the Thermosphere for Space Weather Nowcasting and Forecasting. Space Weather, 2018, 16, 363-375. | 3.7 | 20 |
| 44 | Understanding the Global Variability in Thermospheric Nitric Oxide Flux Using Empirical Orthogonal Functions (EOFs). Journal of Geophysical Research: Space Physics, 2018, 123, 4150-4170. | 2.4 | 20 |
| 45 | Numerical Simulations of the Geospace Response to the Arrival of an Idealized Perfect Interplanetary Coronal Mass Ejection. Space Weather, 2021, 19, e2020SW002489. | 3.7 | 20 |
| 46 | A fast, parameterized model of upper atmospheric ionization rates, chemistry, and conductivity. Journal of Geophysical Research: Space Physics, 2015, 120, 4936-4949. | 2.4 | 18 |
| 47 | Estimation of cold plasma outflow during geomagnetic storms. Journal of Geophysical Research: Space Physics, 2015, 120, 10,622. | 2.4 | 18 |
| 48 | Associating ground magnetometer observations with current or voltage generators. Journal of Geophysical Research: Space Physics, 2017, 122, 7130-7141. | 2.4 | 17 |
| 49 | Validation of Inner Magnetosphere Particle Transport and Acceleration Model (IMPTAM) With Longâ€Term GOES MAGED Measurements of keV Electron Fluxes at Geostationary Orbit. Space Weather, 2019, 17, 687-708. | 3.7 | 17 |
| 50 | ASHLEY: A New Empirical Model for the High‣atitude Electron Precipitation and Electric Field. Space Weather, 2021, 19, e2020SW002671. | 3.7 | 17 |
| 51 | The ionospheric source of magnetospheric plasma is not a black box input for global models. Journal of Geophysical Research: Space Physics, 2016, 121, 5559-5565. | 2.4 | 16 |
| 52 | Contribution of energetic and heavy ions to the plasma pressure: The 27 September to 3 October 2002 storm. Journal of Geophysical Research: Space Physics, 2017, 122, 9427-9439. | 2.4 | 16 |
| 53 | Challenges associated with nearâ€Earth nightside current. Journal of Geophysical Research: Space Physics, 2016, 121, 6763-6768. | 2.4 | 15 |
| 54 | The long-term effects of space weather on satellite operations. Annales Geophysicae, 2010, 28, 1361-1367. | 1.6 | 14 |

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| 55 | Highâ€latitude ionospheric conductivity variability in three dimensions. Geophysical Research Letters, 2016, 43, 7867-7877. | 4.0 | 14 |
| 56 | Essential science for understanding risks from radiation for airline passengers and crews. Space Weather, 2017, 15, 549-552. | 3.7 | 13 |
| 57 | Integration of RAM-SCB into the Space Weather Modeling Framework. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 177, 160-168. | 1.6 | 13 |
| 58 | The 2019 National Space Weather Strategy and Action Plan and Beyond. Space Weather, 2019, 17, 794-795. | 3.7 | 13 |
| 59 | Application usability levels: a framework for tracking project product progress. Journal of Space Weather and Space Climate, 2019, 9, A34. | 3.3 | 13 |
| 60 | Modes of (FACs) Variability and Their Hemispheric Asymmetry Revealed by Inverse and Assimilative Analysis of Iridium Magnetometer Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027265. | 2.4 | 13 |
| 61 | Modeling the Geomagnetic Response to the September 2017 Space Weather Event Over Fennoscandia Using the Space Weather Modeling Framework: Studying the Impacts of Spatial Resolution. Space Weather, 2021, 19, e2020SW002683. | 3.7 | 13 |
| 62 | Sunspot observations by Hisako Koyama: 1945–1996. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4513-4527. | 4.4 | 13 |
| 63 | Magnetospheric cross-field currents during the January 6–7, 2011 high-speed stream-driven interval. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 99, 78-84. | 1.6 | 12 |
| 64 | Using Multiple Signatures to Improve Accuracy of Substorm Identification. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027559. | 2.4 | 12 |
| 65 | Impacts of Different Causes on the Interâ€Hemispheric Asymmetry of Ionosphereâ€Thermosphere System at Mid―and High‣atitudes: GITM Simulations. Space Weather, 2021, 19, e2021SW002856. | 3.7 | 10 |
| 66 | Forward to space weather collection on geomagnetically induced currents: Commentary and research. Space Weather, 2015, 13, 742-746. | 3.7 | 9 |
| 67 | Effects of Nearly Frontal and Highly Inclined Interplanetary Shocks on Highâ€Latitude Fieldâ€Aligned Currents (FACs). Space Weather, 2019, 17, 1659-1673. | 3.7 | 9 |
| 68 | Importance of Regionalâ€Scale Auroral Precipitation and Electrical Field Variability to the Stormâ€Time Thermospheric Temperature Enhancement and Inversion Layer (TTEIL) in the Antarctic E Region. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028224. | 2.4 | 9 |
| 69 | Recreating the Horizontal Magnetic Field at Colaba During the Carrington Event With Geospace Simulations. Space Weather, 2021, 19, e2020SW002585. | 3.7 | 8 |
| 70 | Communicating Uncertainty and Reliability in Space Weather Data, Models, and Applications. Space Weather, 2018, 16, 1453-1454. | 3.7 | 7 |
| 71 | 3D Modeling of Geomagnetically Induced Currents in Sweden—Validation and Extreme Event Analysis. Space Weather, 2022, 20, . | 3.7 | 7 |
| 72 | Formation of the Lowâ€Energy "Finger―Ion Spectral Structure Near the Inner Edge of the Plasma Sheet. Geophysical Research Letters, 2020, 47, e2020GL089875. | 4.0 | 6 |

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| 73 | Global Magnetohydrodynamic Simulations: Performance Quantification of Magnetopause Distances and Convection Potential Predictions. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 6 |
| 74 | Multispecies and Multifluid MHD Approaches for the Study of Ionospheric Escape at Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 7370-7383. | 2.4 | 5 |
| 75 | A Maximum Spreading Speed for Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 5268-5273. | 4.0 | 5 |
| 76 | On the Accuracy of Adiabaticity Parameter Estimations Using Magnetospheric Models. Journal of Geophysical Research: Space Physics, 2019, 124, 1785-1805. | 2.4 | 4 |
| 77 | Global Driving of Auroral Precipitation: 1. Balance of Sources. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 4 |
| 78 | Effects of Energetic Electron and Proton Precipitations on Thermospheric Nitric Oxide Cooling During Shockâ€Led Interplanetary Coronal Mass Ejections. Journal of Geophysical Research: Space Physics, 2019, 124, 8125-8137. | 2.4 | 3 |
| 79 | Event Studies of Highâ€Latitude FACs With Inverse and Assimilative Analysis of AMPERE Magnetometer Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027266. | 2.4 | 3 |
| 80 | The Role of Current Sheet Scattering in the Proton Isotropic Boundary Formation During Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2019, 124, 3468-3486. | 2.4 | 1 |
| 81 | Avril Hart and the discovery of solar supergranulation. Astronomy and Geophysics, 2021, 62, 6.38-6.40. | 0.2 | 1 |
| 82 | On Space Weather During a Total Eclipse. Space Weather, 2017, 15, 1092-1092. | 3.7 | 0 |
| 83 | Maintaining a Strong Signal and Strong Impact. Space Weather, 2017, 15, 1560-1561. | 3.7 | Ο |
| 84 | Thank You to Space Weather Peer Reviewers. Space Weather, 2017, 15, 542-544. | 3.7 | 0 |
| 85 | Advances in Space Weather Data Interpretation and Simulations. Space Weather, 2018, 16, 198-199. | 3.7 | 0 |
| 86 | The Reprise Special Collection for the 2001 Space Weather Monograph. Space Weather, 2018, 16, 334-340. | 3.7 | 0 |
| 87 | Thank You to Space Weather Peer Reviewers. Space Weather, 2018, 16, 424-427. | 3.7 | 0 |
| 88 | Thank You to Our 2018 Peer Reviewers. Space Weather, 2019, 17, 372-374. | 3.7 | 0 |
| 89 | Fall 2018 AGU Editors' Highlights: Living Within the Sun's Stormy Atmosphere. Space Weather, 2019, 17, 3-5. | 3.7 | 0 |
| 90 | Thank You to Our 2019 Reviewers. Space Weather, 2020, 18, e2020SW002481. | 3.7 | 0 |

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| 91 | Thank You to Our 2020 Reviewers. Space Weather, 2021, 19, e2021SW002756. | 3.7 | Ο |