

# Vadim M Uritsky

## List of Publications by Year in descending order

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73  
papers

1,963  
citations

218677

26  
h-index

265206

42  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1738  
citing authors

#	ARTICLE	IF	CITATIONS
1	A User's Guide to the Magnetically Connected Space Weather System: A Brief Review. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	2.8	2
2	A Systematic Look at the Temperature Gradient Contribution to the Dayside Magnetopause Current. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
3	Quantitative Evaluation of Coronal Magnetic Field Models Using Tomographic Reconstructions of Electron Density. <i>Astrophysical Journal</i> , 2022, 928, 131.	4.5	1
4	Quasi-periodic Energy Release and Jets at the Base of Solar Coronal Plumes. <i>Astrophysical Journal</i> , 2022, 933, 21.	4.5	16
5	Plumelets: Dynamic Filamentary Structures in Solar Coronal Plumes. <i>Astrophysical Journal</i> , 2021, 907, 1.	4.5	25
6	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021, 17, 1056-1065.	16.7	15
7	Statistical Analysis of the Possible Association Between Geomagnetic Storms and Cetacean Mass Strandings. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005441.	3.0	5
8	Improving Coronal Magnetic Field Models Using Image Optimization. <i>Astrophysical Journal</i> , 2020, 896, 57.	4.5	4
9	Nanoflare Diagnostics from Magnetohydrodynamic Heating Profiles. <i>Astrophysical Journal</i> , 2020, 899, 156.	4.5	5
10	MMS Measurements of the Vlasov Equation: Probing the Electron Pressure Divergence Within Thin Current Sheets. <i>Geophysical Research Letters</i> , 2019, 46, 7862-7872.	4.0	19
11	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5-Åms Fast Plasma Investigation Moments. <i>Geophysical Research Letters</i> , 2018, 45, 578-584.	4.0	52
12	Simulated Encounters of the Parker Solar Probe with a Coronal-hole Jet. <i>Astrophysical Journal</i> , 2018, 866, 14.	4.5	29
13	Power-law Statistics of Driven Reconnection in the Magnetically Closed Corona. <i>Astrophysical Journal</i> , 2018, 853, 82.	4.5	27
14	Reconnection-driven Magnetohydrodynamic Turbulence in a Simulated Coronal-hole Jet. <i>Astrophysical Journal</i> , 2017, 837, 123.	4.5	19
15	Criticality and turbulence in a resistive magnetohydrodynamic current sheet. <i>Physical Review E</i> , 2017, 95, 023209.	2.1	9
16	Data-derived optimization of sensitivity requirements for upcoming auroral imaging missions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9358-9370.	2.4	0
17	Image-optimized Coronal Magnetic Field Models. <i>Astrophysical Journal</i> , 2017, 844, 93.	4.5	4
18	25 Years of Self-Organized Criticality: Solar and Astrophysics. <i>Space Science Reviews</i> , 2016, 198, 47-166.	8.1	165

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19	OPTIMIZING GLOBAL CORONAL MAGNETIC FIELD MODELS USING IMAGE-BASED CONSTRAINTS. <i>Astrophysical Journal</i> , 2016, 820, 113.	4.5	7
20	Selection of FUV auroral imagers for satellite missions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,019-10,031.	2.4	4
21	25 Years of Self-organized Criticality: Space and Laboratory Plasmas. <i>Space Science Reviews</i> , 2016, 198, 167-216.	8.1	30
22	Ensemble forecasting of major solar flares: First results. <i>Space Weather</i> , 2015, 13, 626-642.	3.7	36
23	Predictability of price movements in deregulated electricity markets. <i>Energy Economics</i> , 2015, 49, 72-81.	12.1	12
24	Spatio-Temporal Scaling of Turbulent Photospheric Line-of-Sight Magnetic Field in Active Region NOAA 11158. <i>Solar Physics</i> , 2015, 290, 335-350.	2.5	6
25	OBSERVATIONS AND IMPLICATIONS OF LARGE-AMPLITUDE LONGITUDINAL OSCILLATIONS IN A SOLAR FILAMENT. <i>Astrophysical Journal</i> , 2014, 785, 79.	4.5	78
26	SPATIOTEMPORAL ORGANIZATION OF ENERGY RELEASE EVENTS IN THE QUIET SOLAR CORONA. <i>Astrophysical Journal</i> , 2014, 795, 15.	4.5	12
27	A survey of hot flow anomalies at Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 978-991.	2.4	21
28	Active current sheets and candidate hot flow anomalies upstream of Mercury's bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 853-876.	2.4	22
29	MEASURING TEMPERATURE-DEPENDENT PROPAGATING DISTURBANCES IN CORONAL FAN LOOPS USING MULTIPLE SDO/AIA CHANNELS AND THE SURFING TRANSFORM TECHNIQUE. <i>Astrophysical Journal</i> , 2013, 778, 26.	4.5	29
30	STOCHASTIC COUPLING OF SOLAR PHOTOSPHERE AND CORONA. <i>Astrophysical Journal</i> , 2013, 769, 62.	4.5	31
31	Cyclic reformation of a quasi-parallel bow shock at Mercury: MESSENGER observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6457-6464.	2.4	25
32	MESSENGER observations of dipolarization events in Mercury's magnetotail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
33	MULTISCALE DYNAMICS OF SOLAR MAGNETIC STRUCTURES. <i>Astrophysical Journal</i> , 2012, 748, 60.	4.5	23
34	Formation and disruption of current filaments in a flow-driven turbulent magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8
35	Advection of magnetic energy as a source of power for auroral arcs. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	5
36	Kinetic-scale magnetic turbulence and finite Larmor radius effects at Mercury. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	39

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37	Fast earthward flows, electron cyclotron harmonic waves, and diffuse auroras: Conjunctive observations and a synthesized scenario. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
38	Lack of universality in MHD turbulence, and the possible emergence of a new paradigm?. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 304-316.	0.0	3
39	Understanding bursty behavior in midlatitude geomagnetic activity. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
40	Multiscale auroral emission statistics as evidence of turbulent reconnection in Earth's midtail plasma sheet. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
41	THEMIS observations of electron cyclotron harmonic emissions, ULF waves, and pulsating auroras. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
42	Data-derived spatiotemporal resolution constraints for global auroral imagers. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
43	Dual scaling for self-organized critical models of the magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
44	Structures in magnetohydrodynamic turbulence: Detection and scaling. <i>Physical Review E</i> , 2010, 82, 056326.	2.1	53
45	Uritsky, Davila, and Jones Reply:. <i>Physical Review Letters</i> , 2009, 103, .	7.8	4
46	Longitudinally propagating arc wave in the pre-onset optical aurora. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	53
47	Collective dynamics of bursty particle precipitation initiating in the inner and outer plasma sheet. <i>Annales Geophysicae</i> , 2009, 27, 745-753.	1.6	10
48	Scale-free and scale-dependent modes of energy release dynamics in the nighttime magnetosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	23
49	DETRENDED FLUCTUATION ANALYSIS OF THE US STOCK MARKET. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 599-603.	1.7	20
50	Coexistence of Self-Organized Criticality and Intermittent Turbulence in the Solar Corona. <i>Physical Review Letters</i> , 2007, 99, 025001.	7.8	63
51	Fractal Modeling of Human Psychomotor Skills Acquisition Process. <i>Lecture Notes in Computer Science</i> , 2007, , 474-482.	1.3	0
52	Critical finite-size scaling of energy and lifetime probability distributions of auroral emissions. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	23
53	Spatiotemporal scaling properties of the ground geomagnetic field variations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45
54	Role of stochastic fluctuations in the magnetosphere-ionosphere system: A stochastic model for the AE index variations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34

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55	Analysis and prediction of high-latitude geomagnetic disturbances based on a self-organized criticality framework. <i>Advances in Space Research</i> , 2006, 37, 539-546.	2.6	26
56	The magnetosphere as a complex system. <i>Advances in Space Research</i> , 2005, 35, 961-971.	2.6	31
57	Hysteresis-controlled instability waves in a scale-free driven current sheet model. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 827-833.	1.3	7
58	Extra low frequency fluctuations of heart rate variability as a signature of adaptation dynamics of human homeostasis. , 2005, , .		1
59	A mechanism for the loading-unloading substorm cycle missing in MHD global magnetospheric simulation models. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	15
60	Simulation Study of SOC Dynamics in Driven Current-Sheet Models. , 2005, , 71-89.		4
61	Reconnection and scale-free avalanching in a driven current-sheet model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	50
62	Power law probability distributions of multiscale auroral dynamics from ground-based TV observations. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	40
63	Critical dynamics of fractal fault systems and its role in the generation of pre-seismic electromagnetic emissions. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 473-480.	2.9	26
64	Self-organization in a current sheet model. <i>Space Science Reviews</i> , 2003, 107, 515-522.	8.1	20
65	Evaluation of spreading critical exponents from the spatiotemporal evolution of emission regions in the nighttime aurora. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	34
66	Self-Organization in a Current Sheet Model. , 2003, , 515-522.		9
67	Publisher's Note: Multiscale dynamics and robust critical scaling in a continuum current sheet model [Phys. Rev. E 65, 046113 (2002)]. <i>Physical Review E</i> , 2002, 66, .	2.1	0
68	Multiscale dynamics and robust critical scaling in a continuum current sheet model. <i>Physical Review E</i> , 2002, 65, 046113.	2.1	30
69	Scale-free statistics of spatiotemporal auroral emissions as depicted by POLAR UVI images: Dynamic magnetosphere is an avalanching system. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1-SMP 7-11.	3.3	120
70	Comparative study of dynamical critical scaling in the auroral electrojet index versus solar wind fluctuations. <i>Geophysical Research Letters</i> , 2001, 28, 3809-3812.	4.0	54
71	Geomagnetic substorms as perturbed self-organized critical dynamics of the magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1415-1424.	1.6	31
72	Low frequency 1/f-like fluctuations of the AE-index as a possible manifestation of self-organized criticality in the magnetosphere. <i>Annales Geophysicae</i> , 1998, 16, 1580-1588.	1.6	110

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73	Auroral Signatures of the Dynamic Plasma Sheet. Geophysical Monograph Series, 0, , 317-336.	0.1	15