

# Ilja Honkonen

## List of Publications by Year in descending order

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25  
papers

534  
citations

759055

12  
h-index

642610

23  
g-index

29  
all docs

29  
docs citations

29  
times ranked

661  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Regional Variability of $dI_B/dI_T$ and Its Significance to GIC. <i>Space Weather</i> , 2020, 18, e2020SW002497.	1.3	35
2	GUMICS-4 analysis of interplanetary coronal mass ejection impact on Earth during low and typical Mach number solar winds. <i>Annales Geophysicae</i> , 2019, 37, 561-579.	0.6	2
3	The GIC and Geomagnetic Response Over Fennoscandia to the 7 <sup>th</sup> September 2017 Geomagnetic Storm. <i>Space Weather</i> , 2019, 17, 989-1010.	1.3	65
4	Modeling Turbulence via Numerical Functional Integration. <i>Springer Proceedings in Complexity</i> , 2019, , 113-121.	0.2	0
5	The Cross-Polar Cap Saturation in GUMICS-4 During High Solar Wind Driving. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3320-3332.	0.8	7
6	Predicting Global Ground Geoelectric Field With Coupled Geospace and Three-Dimensional Geomagnetic Induction Models. <i>Space Weather</i> , 2018, 16, 1028-1041.	1.3	24
7	The impact on global magnetohydrodynamic simulations from varying initialisation methods: results from GUMICS-4. <i>Annales Geophysicae</i> , 2017, 35, 907-922.	0.6	3
8	High-Dimensional Integrator. <i>Journal of Open Source Software</i> , 2017, 2, 437.	2.0	1
9	One year in the Earth's magnetosphere: A global MHD simulation and spacecraft measurements. <i>Space Weather</i> , 2016, 14, 351-367.	1.3	13
10	Assessing the performance of community-available global MHD models using key system parameters and empirical relationships. <i>Space Weather</i> , 2015, 13, 868-884.	1.3	40
11	Solar Storm GIC Forecasting: Solar Shield Extension Development of the End-User Forecasting System Requirements. <i>Space Weather</i> , 2015, 13, 531-532.	1.3	3
12	A generic simulation cell method for developing extensible, efficient and readable parallel computational models. <i>Geoscientific Model Development</i> , 2015, 8, 473-483.	1.3	0
13	Windsock memory COnditioned RAM (CO-RAM) pressure effect: Forced reconnection in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6273-6293.	0.8	13
14	Statistical comparison of seasonal variations in the GUMICS-4 global MHD model ionosphere and measurements. <i>Space Weather</i> , 2014, 12, 582-600.	1.3	18
15	Vlasiator: First global hybrid-Vlasov simulations of Earth's foreshock and magnetosheath. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 120, 24-35.	0.6	91
16	Verification of the GUMICS-4 global MHD code using empirical relationships. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3138-3146.	0.8	11
17	Parallel grid library for rapid and flexible simulation development. <i>Computer Physics Communications</i> , 2013, 184, 1297-1309.	3.0	11
18	Multi-GPU simulations of Vlasov's equation using Vlasiator. <i>Parallel Computing</i> , 2013, 39, 306-318.	1.3	13

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19	Preliminary testing of global hybrid-Vlasov simulation: Magnetosheath and cusps under northward interplanetary magnetic field. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 99, 41-46.	0.6	33
20	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. <i>Space Weather</i> , 2013, 11, 313-326.	1.3	28
21	IMF effect on the polar cap contraction and expansion during a period of substorms. <i>Annales Geophysicae</i> , 2013, 31, 1021-1034.	0.6	7
22	Topology Aware Process Mapping. <i>Lecture Notes in Computer Science</i> , 2013, , 297-308.	1.0	2
23	Magnetopause energy transfer dependence on the interplanetary magnetic field and the Earth's magnetic dipole axis orientation. <i>Annales Geophysicae</i> , 2012, 30, 515-526.	0.6	12
24	The GUMICS-4 global MHD magnetosphere-ionosphere coupling simulation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 80, 48-59.	0.6	88
25	On large plasmoid formation in a global magnetohydrodynamic simulation. <i>Annales Geophysicae</i> , 2011, 29, 167-179.	0.6	14