Ilja Honkonen

List of Publications by Year
in descending order

25	534	759055	642610
papers	citations	12	23
		h-index	g-index

29	29	29	661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vlasiator: First global hybrid-Vlasov simulations of Earth's foreshock and magnetosheath. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 120, 24-35.	0.6	91
2	The GUMICS-4 global MHD magnetosphere–ionosphere coupling simulation. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 48-59.	0.6	88
3	The GIC and Geomagnetic Response Over Fennoscandia to the 7–8 September 2017 Geomagnetic Storm. Space Weather, 2019, 17, 989-1010.	1.3	65
4	Assessing the performance of community-available global MHD models using key system parameters and empirical relationships. Space Weather, 2015, 13, 868-884.	1.3	40
5	On the Regional Variability of dB/dt and Its Significance to GIC. Space Weather, 2020, 18, e2020SW002497.	1.3	35
6	Preliminary testing of global hybrid-Vlasov simulation: Magnetosheath and cusps under northward interplanetary magnetic field. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 99, 41-46.	0.6	33
7	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. Space Weather, 2013, 11, 313-326.	1.3	28
8	Predicting Global Ground Geoelectric Field With Coupled Geospace and Three-Dimensional Geomagnetic Induction Models. Space Weather, 2018, 16, 1028-1041.	1.3	24
9	Statistical comparison of seasonal variations in the GUMICS-4 global MHD model ionosphere and measurements. Space Weather, 2014, 12, 582-600.	1.3	18
10	On large plasmoid formation in a global magnetohydrodynamic simulation. Annales Geophysicae, 2011, 29, 167-179.	0.6	14
11	Multi-GPU simulations of Vlasov's equation using Vlasiator. Parallel Computing, 2013, 39, 306-318.	1.3	13
12	Windsock memory COnditioned RAM (CO-RAM) pressure effect: Forced reconnection in the Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 6273-6293.	0.8	13
13	One year in the Earth's magnetosphere: A global MHD simulation and spacecraft measurements. Space Weather, 2016, 14, 351-367.	1.3	13
14	Magnetopause energy transfer dependence on the interplanetary magnetic field and the Earth's magnetic dipole axis orientation. Annales Geophysicae, 2012, 30, 515-526.	0.6	12
15	Verification of the GUMICS-4 global MHD code using empirical relationships. Journal of Geophysical Research: Space Physics, 2013, 118, 3138-3146.	0.8	11
16	Parallel grid library for rapid and flexible simulation development. Computer Physics Communications, 2013, 184, 1297-1309.	3.0	11
17	IMF effect on the polar cap contraction and expansion during a period of substorms. Annales Geophysicae, 2013, 31, 1021-1034.	0.6	7
18	The Cross-Polar Cap Saturation in GUMICS-4 During High Solar Wind Driving. Journal of Geophysical Research: Space Physics, 2018, 123, 3320-3332.	0.8	7

#	Article	IF	Citations
19	Solar Storm GIC Forecasting: Solar Shield Extension—Development of the End‑User Forecasting System Requirements. Space Weather, 2015, 13, 531-532.	1.3	3
20	The impact on global magnetohydrodynamic simulations from varying initialisation methods: results from GUMICS-4. Annales Geophysicae, 2017, 35, 907-922.	0.6	3
21	GUMICS-4 analysis of interplanetary coronal mass ejection impact on Earth during low and typical Mach number solar winds. Annales Geophysicae, 2019, 37, 561-579.	0.6	2
22	Topology Aware Process Mapping. Lecture Notes in Computer Science, 2013, , 297-308.	1.0	2
23	High-Dimensional Integrator. Journal of Open Source Software, 2017, 2, 437.	2.0	1
24	A generic simulation cell method for developing extensible, efficient and readable parallel computational models. Geoscientific Model Development, 2015, 8, 473-483.	1.3	0
25	Modeling Turbulence via Numerical Functional Integration. Springer Proceedings in Complexity, 2019, , 113-121.	0.2	0