

Risto Pirjola

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,757
citations

377584

21
h-index

759306

22
g-index

23
all docs

23
docs citations

23
times ranked

886
citing authors

#	ARTICLE	IF	CITATIONS
1	Geomagnetic storm of 29-31 October 2003: Geomagnetically induced currents and their relation to problems in the Swedish high-voltage power transmission system. <i>Space Weather</i> , 2005, 3, n/a-n/a.	1.3	243
2	Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856.	1.3	149
3	A Test Case for the Calculation of Geomagnetically Induced Currents. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 2368-2373.	2.9	142
4	The complex-image method for calculating the magnetic and electric fields produced at the surface of the Earth by the auroral electrojet. <i>Geophysical Journal International</i> , 2002, 132, 31-40.	1.0	99
5	Geomagnetically Induced Currents in the High-Voltage Power Grid in China. <i>IEEE Transactions on Power Delivery</i> , 2009, 24, 2368-2374.	2.9	98
6	Modeling geomagnetically induced currents. <i>Space Weather</i> , 2017, 15, 258-276.	1.3	98
7	Fast computation of the geoelectric field using the method of elementary current systems and planar Earth models. <i>Annales Geophysicae</i> , 2004, 22, 101-113.	0.6	95
8	Calculation of geomagnetically induced currents in the 400 kV power grid in southern Sweden. <i>Space Weather</i> , 2008, 6, .	1.3	94
9	Recordings of geomagnetically induced currents and a nowcasting service of the Finnish natural gas pipeline system. <i>Space Weather</i> , 2006, 4, n/a-n/a.	1.3	92
10	Complex image method for calculating electric and magnetic fields produced by an auroral electrojet of finite length. <i>Annales Geophysicae</i> , 1998, 16, 1434-1444.	0.6	81
11	Effects of space weather on high-latitude ground systems. <i>Advances in Space Research</i> , 2005, 36, 2231-2240.	1.2	80
12	Continental scale modelling of geomagnetically induced currents. <i>Journal of Space Weather and Space Climate</i> , 2012, 2, A17.	1.1	60
13	Statistics of extreme geomagnetically induced current events. <i>Space Weather</i> , 2008, 6, .	1.3	57
14	Geomagnetically induced currents in Europe. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A09.	1.1	57
15	Comparison of methods for modelling geomagnetically induced currents. <i>Annales Geophysicae</i> , 2014, 32, 1177-1187.	0.6	56
16	Statistics on geomagnetically-induced currents in the Finnish 400kV power system based on recordings of geomagnetic variations.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1989, 41, 411-420.	0.8	47
17	Practical model applicable to investigating the coast effect on the geoelectric field in connection with studies of geomagnetically induced currents. <i>Advances in Applied Physics</i> , 0, 1, 9-28.	0.4	38
18	A study of geoelectromagnetic disturbances in Quebec. II. Detailed analysis of a large event. <i>IEEE Transactions on Power Delivery</i> , 2000, 15, 272-278.	2.9	37

#	ARTICLE	IF	CITATIONS
19	Effects of neutral point reactors and series capacitors on geomagnetically induced currents in a high-voltage electric power transmission system. <i>Space Weather</i> , 2011, 9, .	1.3	32
20	Prediction of geomagnetically induced currents in power transmission systems. <i>Advances in Space Research</i> , 2000, 26, 5-14.	1.2	31
21	Observations and modeling of GIC in the Chinese large-scale high-voltage power networks. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A03.	1.1	30
22	On calculating the electric and magnetic fields produced in technological systems at the Earth's surface by a wide-area electrojet. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000, 62, 1311-1315.	0.6	29
23	The Tsallis statistical distribution applied to geomagnetically induced currents. <i>Space Weather</i> , 2017, 15, 1094-1101.	1.3	12