

# Risto Pirjola

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,757  
citations

331670  
21  
h-index

677142  
22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

833  
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. Space Weather, 2005, 3, n/a-n/a.	3.7	243
2	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	3.7	149
3	A Test Case for the Calculation of Geomagnetically Induced Currents. IEEE Transactions on Power Delivery, 2012, 27, 2368-2373.	4.3	142
4	The complex-image method for calculating the magnetic and electric fields produced at the surface of the Earth by the auroral electrojet. Geophysical Journal International, 2002, 132, 31-40.	2.4	99
5	Geomagnetically Induced Currents in the High-Voltage Power Grid in China. IEEE Transactions on Power Delivery, 2009, 24, 2368-2374.	4.3	98
6	Modeling geomagnetically induced currents. Space Weather, 2017, 15, 258-276.	3.7	98
7	Fast computation of the geoelectric field using the method of elementary current systems and planar Earth models. Annales Geophysicae, 2004, 22, 101-113.	1.6	95
8	Calculation of geomagnetically induced currents in the 400 kV power grid in southern Sweden. Space Weather, 2008, 6, .	3.7	94
9	Recordings of geomagnetically induced currents and a nowcasting service of the Finnish natural gas pipeline system. Space Weather, 2006, 4, n/a-n/a.	3.7	92
10	Complex image method for calculating electric and magnetic fields produced by an auroral electrojet of finite length. Annales Geophysicae, 1998, 16, 1434-1444.	1.6	81
11	Effects of space weather on high-latitude ground systems. Advances in Space Research, 2005, 36, 2231-2240.	2.6	80
12	Continental scale modelling of geomagnetically induced currents. Journal of Space Weather and Space Climate, 2012, 2, A17.	3.3	60
13	Statistics of extreme geomagnetically induced current events. Space Weather, 2008, 6, .	3.7	57
14	Geomagnetically induced currents in Europe. Journal of Space Weather and Space Climate, 2014, 4, A09.	3.3	57
15	Comparison of methods for modelling geomagnetically induced currents. Annales Geophysicae, 2014, 32, 1177-1187.	1.6	56
16	Statistics on geomagnetically-induced currents in the Finnish 400kV power system based on recordings of geomagnetic variations.. Journal of Geomagnetism and Geoelectricity, 1989, 41, 411-420.	0.9	47
17	Practical model applicable to investigating the coast effect on the geoelectric field in connection with studies of geomagnetically induced currents. Advances in Applied Physics, 0, 1, 9-28.	0.4	38
18	A study of geoelectromagnetic disturbances in Quebec. II. Detailed analysis of a large event. IEEE Transactions on Power Delivery, 2000, 15, 272-278.	4.3	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. Space Weather, 2011, 9, .	3.7	32
20	Prediction of geomagnetically induced currents in power transmission systems. Advances in Space Research, 2000, 26, 5-14.	2.6	31
21	Observations and modeling of GIC in the Chinese large-scale high-voltage power networks. Journal of Space Weather and Space Climate, 2014, 4, A03.	3.3	30
22	On calculating the electric and magnetic fields produced in technological systems at the Earth's surface by a "wide" electrojet. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1311-1315.	1.6	29
23	The Tsallis statistical distribution applied to geomagnetically induced currents. Space Weather, 2017, 15, 1094-1101.	3.7	12