

Jouni Peltoniemi

List of Publications by Year in descending order

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74
papers

1,965
citations

236925

25
h-index

265206

42
g-index

77
all docs

77
docs citations

77
times ranked

1700
citing authors

#	ARTICLE	IF	CITATIONS
1	Light scattering by Gaussian random particles: Ray optics approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 55, 577-601.	2.3	197
2	A Critical review of theoretical models of negatively polarized light scattered by atmosphereless solar system bodies. <i>Earth, Moon and Planets</i> , 1994, 65, 201-246.	0.6	116
3	BRDF measurement of understory vegetation in pine forests: dwarf shrubs, lichen, and moss. <i>Remote Sensing of Environment</i> , 2005, 94, 343-354.	11.0	107
4	Light scattering by randomly oriented crystals. <i>Applied Optics</i> , 1989, 28, 3051.	2.1	91
5	Scattering of light by stochastically rough particles. <i>Applied Optics</i> , 1989, 28, 4088.	2.1	84
6	Polarised bidirectional reflectance factor measurements from soil, stones, and snow. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1940-1953.	2.3	77
7	Polarised Multiangular Reflectance Measurements Using the Finnish Geodetic Institute Field Goniospectrometer. <i>Sensors</i> , 2009, 9, 3891-3907.	3.8	63
8	Measurement of directional and spectral signatures of light reflectance by snow. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 2294-2304.	6.3	58
9	Coupling forest canopy and understory reflectance in the Arctic latitudes of Finland. <i>Remote Sensing of Environment</i> , 2007, 110, 332-343.	11.0	57
10	Acquisition of Bidirectional Reflectance Factor Dataset Using a Micro Unmanned Aerial Vehicle and a Consumer Camera. <i>Remote Sensing</i> , 2010, 2, 819-832.	4.0	57
11	Light scattering by closely packed particulate media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992, 9, 1320.	1.5	51
12	Soot on Snow experiment: bidirectional reflectance factor measurements of contaminated snow. <i>Cryosphere</i> , 2015, 9, 2323-2337.	3.9	50
13	Measurement of Reflectance Properties of Asphalt Surfaces and Their Usability as Reference Targets for Aerial Photos. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2330-2339.	6.3	47
14	Polarised bidirectional reflectance factor measurements from vegetated land surfaces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1044-1056.	2.3	46
15	A Permanent Test Field for Digital Photogrammetric Systems. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 95-106.	0.6	44
16	General review of optical polarization remote sensing. <i>International Journal of Remote Sensing</i> , 2020, 41, 4853-4864.	2.9	44
17	Mapping Forest Background Reflectance in a Boreal Region Using Multiangle Compact Airborne Spectrographic Imager Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 499-510.	6.3	42
18	Results of TV imaging of phobos (experiment VSK-FREGAT). <i>Planetary and Space Science</i> , 1991, 39, 281-295.	1.7	38

#	ARTICLE	IF	CITATIONS
19	Multiple scattering of light in discrete random media using incoherent interactions. <i>Optics Letters</i> , 2018, 43, 683.	3.3	37
20	Laboratory photometry of planetary regolith analogs. <i>Astronomy and Astrophysics</i> , 2004, 426, 1103-1109.	5.1	33
21	Spectropolarised ray-tracing simulations in densely packed particulate medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 108, 180-196.	2.3	33
22	Variational volume integral equation method for electromagnetic scattering by irregular grains. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 55, 637-647.	2.3	32
23	Technical notes: A detailed study for the provision of measurement uncertainty and traceability for goniospectrometers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 376-390.	2.3	31
24	Radiative transfer in stochastically inhomogeneous media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1993, 50, 655-671.	2.3	28
25	Small-angle goniometry for backscattering measurements in the broadband spectrum. <i>Applied Optics</i> , 2005, 44, 1485.	2.1	27
26	A comprehensive study of distribution laws for the fragments of KoÅ¡ice meteorite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 328-345.	1.6	26
27	Optical properties of snow in backscatter. <i>Journal of Glaciology</i> , 2006, 52, 574-584.	2.2	24
28	Bidirectional reflectance spectrometry of gravel at the Sjätkulla test field. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2007, 62, 434-446.	11.1	24
29	Reflectance and polarization characteristics of various vegetation types. , 2015, , 257-294.		24
30	Diffuse reflection from a stochastically bounded, semi-infinite medium. <i>Transport Theory and Statistical Physics</i> , 1990, 19, 317-332.	0.4	22
31	Laboratory experiments on backscattering from regolith samples. <i>Applied Optics</i> , 2002, 41, 4416.	2.1	21
32	Radiometric Calibration and Characterization of Large-format Digital Photogrammetric Sensors in a Test Field. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 1487-1500.	0.6	21
33	Messung von gerichteten Reflektanzen bei hyperspektralen Flächenkameras auf UAVs. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2014, 2014, 175-188.	1.2	19
34	Light scattering by Gaussian particles: Rayleigh-ellipsoid approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 63, 277-303.	2.3	18
35	Aerosol-induced changes in sky polarization pattern: potential hint on applications in polarimetric remote sensing. <i>International Journal of Remote Sensing</i> , 2020, 41, 4963-4980.	2.9	17
36	Albedo measurements on meteorite particles fn1 fn1Presented at ACM96, Versailles, 8â€“12.7.1996. Also University of Pisa, Department of Mathematics, Pisa, Italy.. <i>Planetary and Space Science</i> , 1998, 46, 937-943.	1.7	16

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37	Land Surface Albedos Computed from BRF Measurements with a Study of Conversion Formulae. Remote Sensing, 2010, 2, 1918-1940.	4.0	16
38	Effect of small-scale snow surface roughness on snow albedo and reflectance. Cryosphere, 2021, 15, 793-820.	3.9	15
39	Analysis of Properties of Reflectance Reference Targets for Permanent Radiometric Test Sites of High Resolution Airborne Imaging Systems. Remote Sensing, 2010, 2, 1892-1917.	4.0	14
40	Radiometric stability assessment of an airborne photogrammetric sensor in a test field. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 409-421.	11.1	13
41	Optical measurements of chemically heterogeneous particulate surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 422-431.	2.3	13
42	Hemispherical-directional reflectance factor measurements of snow on the Greenland Ice Sheet during the Radiation, Snow Characteristics and Albedo at Summit (RASCALS) campaign. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 280-289.	2.3	12
43	Light scattering from volcanic-sand particles in deposited and aerosol form. Atmospheric Environment, 2019, 215, 116813.	4.1	12
44	Evaluation of the Snow Albedo Retrieved from the Snow Kernel Improved the Ross-Roujean BRDF Model. Remote Sensing, 2019, 11, 1611.	4.0	12
45	Seasonal dynamics of lingonberry and blueberry spectra. Silva Fennica, 2019, 53, .	1.3	12
46	Photometry of dark atmosphereless planetary bodies: an efficient numerical model. Planetary and Space Science, 2015, 118, 250-255.	1.7	11
47	Constraining the Pre-atmospheric Parameters of Large Meteoroids: KoÅ¡ice, a Case Study. Thirty Years of Astronomical Discovery With UKIRT, 2017, , 153-183.	0.3	10
48	FLuorescence EXplorer (FLEX): an optimised payload to map vegetation photosynthesis from space. , 2006, , .		9
49	Photometric modelling for laboratory measurements of dark volcanic sand. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 185, 37-47.	2.3	9
50	Steering reflective space debris using polarised lasers. Advances in Space Research, 2021, 67, 1721-1732.	2.6	9
51	Inhomogeneous particle model for light-scattering by cometary dust. Planetary and Space Science, 2015, 118, 164-172.	1.7	8
52	Multiple Scattering in Discrete Random Media Using First-Order Incoherent Interactions. Radio Science, 2017, 52, 1419-1431.	1.6	8
53	Spectropolarimetric characterization of pure and polluted land surfaces. International Journal of Remote Sensing, 2020, 41, 4865-4878.	2.9	8
54	SNORTEX (Snow Reflectance Transition Experiment): Remote sensing measurement of the dynamic properties of the boreal snow-forest in support to climate and weather forecast: Report of IOP-2008. , 2009, , .		7

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55	Polarized backscattering by clusters of spherical particles. <i>Optics Letters</i> , 2015, 40, 3663.	3.3	7
56	Scattering And Absorption of Light in Planetary Regoliths. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	7
57	<title>Angular scattering measurements and calculations of rough spherically shaped carbon particles</title>. , 1995, , .		5
58	Scattering of light by stochastically rough particles with applications to interplanetary dust and planetary regoliths. <i>Advances in Space Research</i> , 1990, 10, 185-188.	2.6	4
59	Assessment of Bidirectional Effects over Aquatic Macrophyte Vegetation in CIR Aerial Photographs. <i>Photogrammetric Engineering and Remote Sensing</i> , 2004, 70, 581-587.	0.6	4
60	Reflectance of various snow types: measurements, modeling, and potential for snow melt monitoring. , 2010, , 393-449.		3
61	Interpretation of the surface brightness of Phobos. <i>Planetary and Space Science</i> , 1991, 39, 335-340.	1.7	2
62	Reflectance reference target at Järvelja, Estonia for the calibration of optical remote sensing sensors and lessons learned. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 73, 191-196.	2.8	2
63	A COMPOSITE MODEL FOR REFLECTANCE AND POLARISATION OF LIGHT FROM GRANULATE MATERIALS. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, V-1-2020, 375-382.	0.0	2
64	Temporal and Spatial Characteristics of the Global Skylight Polarization Vector Field. <i>Remote Sensing</i> , 2022, 14, 2193.	4.0	2
65	Scattering of light by crystals: A possible application to planetary dust. <i>Advances in Space Research</i> , 1990, 10, 189-192.	2.6	1
66	Coherence conditions for the forward scattering of neutrinos. <i>Journal of High Energy Physics</i> , 1999, 1999, 008-008.	4.7	1
67	Spectroscopic investigations of meteorites. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 391-401.	2.3	1
68	Multiple scattering by dense random media: Numerical solution. , 2016, , .		1
69	Spectral Reflectance Processing via Local Wavelength-Direction Correlations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 948-952.	3.1	1
70	METROLOGY OF IMAGE PROCESSING IN SPECTRAL REFLECTANCE MEASUREMENT BY UAV. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-W1, 53-58.	0.2	1
71	OPTICAL POLARIZED EFFECTS FOR QUANTITATIVE REMOTE SENSING. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B1-2020, 593-598.	0.2	1
72	Hyperspectral datasets of boreal forest understory vegetation in Finland. , 2012, , .		0

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73	Improving the Asymptotic Radiative Transfer Model to Better Characterize the Pure Snow Hyperspectral Bidirectional Reflectance. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	0
74	Continuous bidirectional reflectance (BRF) measurement of snow using monochromatic camera. Cold Regions Science and Technology, 2022, 196, 103514.	3.5	0