

Jouni Peltoniemi

List of Publications by Year in descending order

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74
papers

1,965
citations

236925

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265206

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77
docs citations

77
times ranked

1700
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Continuous bidirectional reflectance (BRF) measurement of snow using monochromatic camera. Cold Regions Science and Technology, 2022, 196, 103514.	3.5	0
3	Temporal and Spatial Characteristics of the Global Skylight Polarization Vector Field. Remote Sensing, 2022, 14, 2193.	4.0	2
4	Effect of small-scale snow surface roughness on snow albedo and reflectance. Cryosphere, 2021, 15, 793-820.	3.9	15
5	Steering reflective space debris using polarised lasers. Advances in Space Research, 2021, 67, 1721-1732.	2.6	9
6	Spectropolarimetric characterization of pure and polluted land surfaces. International Journal of Remote Sensing, 2020, 41, 4865-4878.	2.9	8
7	Spectral Reflectance Processing via Local Wavelength-Direction Correlations. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 948-952.	3.1	1
8	Aerosol-induced changes in sky polarization pattern: potential hint on applications in polarimetric remote sensing. International Journal of Remote Sensing, 2020, 41, 4963-4980.	2.9	17
9	General review of optical polarization remote sensing. International Journal of Remote Sensing, 2020, 41, 4853-4864.	2.9	44
10	Light scattering from volcanic-sand particles in deposited and aerosol form. Atmospheric Environment, 2019, 215, 116813.	4.1	12
11	Evaluation of the Snow Albedo Retrieved from the Snow Kernel Improved the Ross-Roujean BRDF Model. Remote Sensing, 2019, 11, 1611.	4.0	12
12	Scattering And Absorption of Light in Planetary Regoliths. Journal of Visualized Experiments, 2019, , .	0.3	7
13	Seasonal dynamics of lingonberry and blueberry spectra. Silva Fennica, 2019, 53, .	1.3	12
14	Reflectance reference target at Järvelja, Estonia for the calibration of optical remote sensing sensors and lessons learned. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 191-196.	2.8	2
15	Multiple scattering of light in discrete random media using incoherent interactions. Optics Letters, 2018, 43, 683.	3.3	37
16	Multiple Scattering in Discrete Random Media Using First-Order Incoherent Interactions. Radio Science, 2017, 52, 1419-1431.	1.6	8
17	Constraining the Pre-atmospheric Parameters of Large Meteoroids: Košice, a Case Study. Thirty Years of Astronomical Discovery With UKIRT, 2017, , 153-183.	0.3	10
18	Photometric modelling for laboratory measurements of dark volcanic sand. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 185, 37-47.	2.3	9

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19	Multiple scattering by dense random media: Numerical solution. , 2016, , .		1
20	Optical measurements of chemically heterogeneous particulate surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 422-431.	2.3	13
21	Soot on Snow experiment: bidirectional reflectance factor measurements of contaminated snow. Cryosphere, 2015, 9, 2323-2337.	3.9	50
22	Photometry of dark atmosphereless planetary bodies: an efficient numerical model. Planetary and Space Science, 2015, 118, 250-255.	1.7	11
23	Inhomogeneous particle model for light-scattering by cometary dust. Planetary and Space Science, 2015, 118, 164-172.	1.7	8
24	Polarized backscattering by clusters of spherical particles. Optics Letters, 2015, 40, 3663.	3.3	7
25	Reflectance and polarization characteristics of various vegetation types. , 2015, , 257-294.		24
26	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
27	Spectroscopic investigations of meteorites. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 391-401.	2.3	1
28	A comprehensive study of distribution laws for the fragments of KoÅ¿ice meteorite. Meteoritics and Planetary Science, 2014, 49, 328-345.	1.6	26
29	Technical notes: A detailed study for the provision of measurement uncertainty and traceability for goniospectrometers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 376-390.	2.3	31
30	Messung von gerichteten Reflektanzen bei hyperspektralen FlÄchenkameras auf UAVs. Photogrammetrie, Fernerkundung, Geoinformation, 2014, 2014, 175-188.	1.2	19
31	Hyperspectral datasets of boreal forest understory vegetation in Finland. , 2012, , .		0
32	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
33	Acquisition of Bidirectional Reflectance Factor Dataset Using a Micro Unmanned Aerial Vehicle and a Consumer Camera. Remote Sensing, 2010, 2, 819-832.	4.0	57
34	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
35	Land Surface Albedos Computed from BRF Measurements with a Study of Conversion Formulae. Remote Sensing, 2010, 2, 1918-1940.	4.0	16
36	Mapping Forest Background Reflectance in a Boreal Region Using Multiangle Compact Airborne Spectrographic Imager Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 499-510.	6.3	42

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37	Reflectance of various snow types: measurements, modeling, and potential for snow melt monitoring. , 2010, , 393-449.		3
38	Polarised Multiangular Reflectance Measurements Using the Finnish Geodetic Institute Field Goniometer. Sensors, 2009, 9, 3891-3907.	3.8	63
39	Polarised bidirectional reflectance factor measurements from vegetated land surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1044-1056.	2.3	46
40	Polarised bidirectional reflectance factor measurements from soil, stones, and snow. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1940-1953.	2.3	77
41	Measurement of Reflectance Properties of Asphalt Surfaces and Their Usability as Reference Targets for Aerial Photos. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2330-2339.	6.3	47
42	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
43	A Permanent Test Field for Digital Photogrammetric Systems. Photogrammetric Engineering and Remote Sensing, 2008, 74, 95-106.	0.6	44
44	Radiometric Calibration and Characterization of Large-format Digital Photogrammetric Sensors in a Test Field. Photogrammetric Engineering and Remote Sensing, 2008, 74, 1487-1500.	0.6	21
45	Spectropolarised ray-tracing simulations in densely packed particulate medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 108, 180-196.	2.3	33
46	Coupling forest canopy and understory reflectance in the Arctic latitudes of Finland. Remote Sensing of Environment, 2007, 110, 332-343.	11.0	57
47	Bidirectional reflectance spectrometry of gravel at the Sjätkulla test field. ISPRS Journal of Photogrammetry and Remote Sensing, 2007, 62, 434-446.	11.1	24
48	FLUORESCENCE EXPLORER (FLEX): an optimised payload to map vegetation photosynthesis from space. , 2006, , .		9
49	Optical properties of snow in backscatter. Journal of Glaciology, 2006, 52, 574-584.	2.2	24
50	BRDF measurement of understory vegetation in pine forests: dwarf shrubs, lichen, and moss. Remote Sensing of Environment, 2005, 94, 343-354.	11.0	107
51	Measurement of directional and spectral signatures of light reflectance by snow. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2294-2304.	6.3	58
52	Small-angle goniometry for backscattering measurements in the broadband spectrum. Applied Optics, 2005, 44, 1485.	2.1	27
53	Laboratory photometry of planetary regolith analogs. Astronomy and Astrophysics, 2004, 426, 1103-1109.	5.1	33
54	Assessment of Bidirectional Effects over Aquatic Macrophyte Vegetation in CIR Aerial Photographs. Photogrammetric Engineering and Remote Sensing, 2004, 70, 581-587.	0.6	4

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55	Laboratory experiments on backscattering from regolith samples. <i>Applied Optics</i> , 2002, 41, 4416.	2.1	21
56	Coherence conditions for the forward scattering of neutrinos. <i>Journal of High Energy Physics</i> , 1999, 1999, 008-008.	4.7	1
57	Light scattering by Gaussian particles: Rayleigh-ellipsoid approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 63, 277-303.	2.3	18
58	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
59	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
60	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
61	<title>Angular scattering measurements and calculations of rough spherically shaped carbon particles</title>. , 1995, , .		5
62	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
63	Radiative transfer in stochastically inhomogeneous media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1993, 50, 655-671.	2.3	28
64	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
65	Results of TV imaging of phobos (experiment VSK-FREGAT). <i>Planetary and Space Science</i> , 1991, 39, 281-295.	1.7	38
66	Interpretation of the surface brightness of Phobos. <i>Planetary and Space Science</i> , 1991, 39, 335-340.	1.7	2
67	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
68	Scattering of light by crystals: A possible application to planetary dust. <i>Advances in Space Research</i> , 1990, 10, 189-192.	2.6	1
69	Diffuse reflection from a stochastically bounded, semi-infinite medium. <i>Transport Theory and Statistical Physics</i> , 1990, 19, 317-332.	0.4	22
70	Light scattering by randomly oriented crystals. <i>Applied Optics</i> , 1989, 28, 3051.	2.1	91
71	Scattering of light by stochastically rough particles. <i>Applied Optics</i> , 1989, 28, 4088.	2.1	84
72	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

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73	METROLOGY OF IMAGE PROCESSING IN SPECTRAL REFLECTANCE MEASUREMENT BY UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W1, 53-58.	0.2	1
74	OPTICAL POLARIZED EFFECTS FOR QUANTITATIVE REMOTE SENSING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B1-2020, 593-598.	0.2	1