

Jani Tyynel

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

714
citations

623734

14
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

554
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar Backscattering from Snowflakes: Comparison of Fractal, Aggregate, and Soft Spheroid Models. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1365-1372.	1.3	86
2	Light scattering by Gaussian random particles with discrete-dipole approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 360-377.	2.3	73
3	Dual-polarization radar signatures in snowstorms: Role of snowflake aggregation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12644-12655.	3.3	71
4	Evidence of nonspheroidal behavior in millimeter-wavelength radar observations of snowfall. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
5	Comparison of scattering by different nonspherical, wavelength-scale particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2391-2405.	2.3	46
6	Characterizing falling snow using multifrequency dual-polarization measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8268-8283.	3.3	46
7	Light scattering by particles with small-scale surface roughness: Comparison of four classes of model geometries. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2356-2367.	2.3	45
8	G band atmospheric radars: new frontiers in cloud physics. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1527-1546.	3.1	45
9	Calculating the millimetre-wave scattering phase function of snowflakes using the self-similar Rayleigh-Gans Approximation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 834-844.	2.7	43
10	Interrelating angular scattering characteristics to internal electric fields for wavelength-scale spherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 520-534.	2.3	30
11	Polarization of light backscattered by small particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2193-2212.	2.3	27
12	Applicability of the Rayleigh-Gans approximation for scattering by snowflakes at microwave frequencies in vertical incidence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1826-1839.	3.3	25
13	Interpretation of single-particle negative polarization at intermediate scattering angles. <i>Applied Optics</i> , 2010, 49, 5284.	2.1	22
14	Investigating the size, shape and surface roughness dependence of polarization lidars with light-scattering computations on real mineral dust particles: Application to dust particles' external mixtures and dust mass concentration retrievals. <i>Atmospheric Research</i> , 2018, 203, 44-61.	4.1	22
15	Interrelating scattering characteristics to internal electric fields for Gaussian-random-sphere particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2207-2218.	2.3	12
16	Modeling radar backscattering from melting snowflakes using spheroids with nonuniform distribution of water. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 133, 504-519.	2.3	12
17	Modeling -band single scattering properties of hydrometeors using discrete-dipole approximation and -matrix method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1654-1664.	2.3	10
18	Scattering parameterization for interpreting asteroid polarimetric and photometric phase effects. <i>Earth, Planets and Space</i> , 2010, 62, 47-52.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Scattering of Hydrometeors. <i>Advances in Global Change Research</i> , 2020, , 249-276.	1.6	9
20	Coherent backscattering in planetary regoliths. , 2010, , 477-518.		8
21	Polarized backscattering by clusters of spherical particles. <i>Optics Letters</i> , 2015, 40, 3663.	3.3	7
22	An accurate and computationally cheap microwave scattering method for ice aggregates: the Independent Monomer Approximation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 1202-1224.	2.7	3
23	Modeling attenuation of melting hydrometeors with a method based on volume integral equations. , 2010, , .		0
24	Modeling melting layer radar observations at GPM frequencies; comparison to measurements. , 2011, , .		0
25	Interrelating angular scattering characteristics to internal electric fields of wavelength-scale Gaussian particles. , 2007, , .		0
26	ESO Reflex: A Graphical Workflow Engine for Running Recipes. , 2008, , 169-175.		0