

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	An accurate and computationally cheap microwave scattering method for ice aggregates: the Independent Monomer Approximation. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1202-1224.	2.7	3
2	Scattering of Hydrometeors. Advances in Global Change Research, 2020, , 249-276.	1.6	9
3	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. Atmospheric Research, 2018, 203, 44-61.	4.1	22
4	Calculating the millimetre-wave scattering phase function of snowflakes using the self-similar Rayleigh-Gans Approximation. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 834-844.	2.7	43
5	Dual-polarization radar signatures in snowstorms: Role of snowflake aggregation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12644-12655.	3.3	71
6	Polarized backscattering by clusters of spherical particles. Optics Letters, 2015, 40, 3663.	3.3	7
7	G band atmospheric radars: new frontiers in cloud physics. Atmospheric Measurement Techniques, 2014, 7, 1527-1546.	3.1	45
8	Modeling radar backscattering from melting snowflakes using spheroids with nonuniform distribution of water. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 504-519.	2.3	12
9	Characterizing falling snow using multifrequency dual-polarization measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8268-8283.	3.3	46
10	Applicability of the Rayleigh-Gans approximation for scattering by snowflakes at microwave frequencies in vertical incidence. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1826-1839.	3.3	25
11	Light scattering by particles with small-scale surface roughness: Comparison of four classes of model geometries. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2356-2367.	2.3	45
12	Comparison of scattering by different nonspherical, wavelength-scale particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2391-2405.	2.3	46
13	Evidence of nonspheroidal behavior in millimeter-wavelength radar observations of snowfall. Journal of Geophysical Research, 2012, 117, .	3.3	62
14	Polarization of light backscattered by small particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2193-2212.	2.3	27
15	Modeling melting layer radar observations at GPM frequencies; comparison to measurements. , 2011, , .		0
16	Radar Backscattering from Snowflakes: Comparison of Fractal, Aggregate, and Soft Spheroid Models. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1365-1372.	1.3	86
17	Modeling attenuation of melting hydrometeors with a method based on volume integral equations. , 2010, , .		0
18	Scattering parameterization for interpreting asteroid polarimetric and photometric phase effects. Earth, Planets and Space, 2010, 62, 47-52.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Interpretation of single-particle negative polarization at intermediate scattering angles. Applied Optics, 2010, 49, 5284.	2.1	22
20	Coherent backscattering in planetary regoliths. , 2010, , 477-518.		8
21	Modeling -band single scattering properties of hydrometeors using discrete-dipole approximation and -matrix method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1654-1664.	2.3	10
22	Interrelating scattering characteristics to internal electric fields for Gaussian-random-sphere particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2207-2218.	2.3	12
23	ESO Reflex: A Graphical Workflow Engine for Running Recipes. , 2008, , 169-175.		0
24	Interrelating angular scattering characteristics to internal electric fields for wavelength-scale spherical particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 520-534.	2.3	30
25	Light scattering by Gaussian random particles with discrete-dipole approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 360-377.	2.3	73
26	Interrelating angular scattering characteristics to internal electric fields of wavelength-scale Gaussian particles. , 2007, , .		0