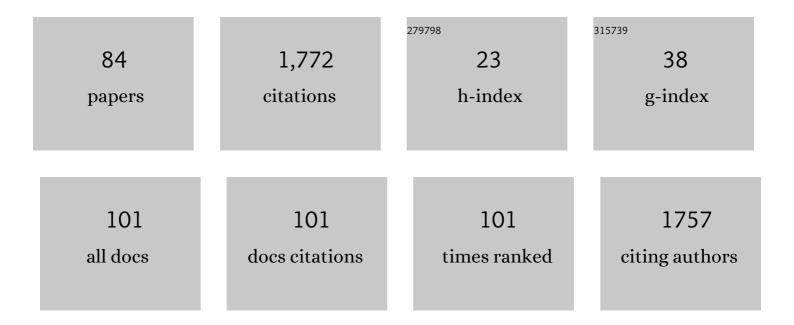
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A three-parameter magnitude phase function for asteroids. Icarus, 2010, 209, 542-555.	2.5	147
2	Comparison between discrete dipole implementations and exact techniques. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 417-436.	2.3	139
3	European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the DART mission. Advances in Space Research, 2018, 62, 2261-2272.	2.6	118
4	COHERENT BACKSCATTERING VERIFIED NUMERICALLY FOR A FINITE VOLUME OF SPHERICAL PARTICLES. Astrophysical Journal, 2012, 760, 118.	4.5	81
5	Mineralogy, reflectance spectra, and physical properties of the Chelyabinsk LL5 chondrite – Insight into shock-induced changes in asteroid regoliths. Icarus, 2014, 228, 78-85.	2.5	81
6	Online multi-parameter phase-curve fitting and application to a large corpus of asteroid photometric data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1919-1929.	2.3	61
7	Statistical analysis of asteroidal and cometary polarization phase curves. Astronomy and Astrophysics, 2005, 432, 1081-1090.	5.1	57
8	Automated image analysis detects aging in clinical-grade mesenchymal stromal cell cultures. Stem Cell Research and Therapy, 2018, 9, 6.	5.5	53
9	Asteroid taxonomic signatures from photometric phase curves. Icarus, 2012, 219, 283-296.	2.5	49
10	Asteroid observations at low phase angles. IV. Average parameters for the new H , G 1 , G 2 magnitude system. Planetary and Space Science, 2016, 123, 101-116.	1.7	49
11	H, G1, G2 photometric phase function extended to low-accuracy data. Planetary and Space Science, 2016, 123, 117-125.	1.7	49
12	Rationale for BepiColombo Studies of Mercury's Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	46
13	Filler-nanocellulose substrate for printed electronics: experiments and model approach to structure and conductivity. Cellulose, 2013, 20, 1413-1424.	4.9	39
14	Asteroid photometric and polarimetric phase curves: Joint linearâ€exponential modeling. Meteoritics and Planetary Science, 2009, 44, 1937-1946.	1.6	38
15	Multiple scattering of light in discrete random media using incoherent interactions. Optics Letters, 2018, 43, 683.	3.3	37
16	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. Space Science Reviews, 2020, 216, 1.	8.1	36
17	Interpretation of the Phase Functions Measured by the OSIRIS Instrument for Comet 67P/Churyumov–Gerasimenko. Astrophysical Journal Letters, 2018, 868, L16.	8.3	34
18	Model of light scattering by dust particles in the solar system: Applications to cometary comae and planetary regoliths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1658-1670.	2.3	29

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19	sbpy: A Python module for small-body planetary astronomy. Journal of Open Source Software, 2019, 4, 1426.	4.6	28
20	Polarization of light backscattered by small particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2193-2212.	2.3	27
21	Feasibility of asteroid exploration using CubeSats—ASPECT case study. Advances in Space Research, 2018, 62, 2239-2244.	2.6	27
22	Asteroid spinâ€exis longitudes from the Lowell Observatory database. Meteoritics and Planetary Science, 2014, 49, 95-102.	1.6	25
23	Optimal cubature on the sphere and other orientation averaging schemes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1741-1746.	2.3	24
24	Ray optics for absorbing particles with application to ice crystals at near-infrared wavelengths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 329-337.	2.3	20
25	Scattering and absorption in dense discrete random media of irregular particles. Optics Letters, 2018, 43, 2925.	3.3	18
26	Theoretical analysis of the particle properties and polarization measurements made in microgravity. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 79-80, 1043-1049.	2.3	17
27	Effects of surface roughness with two scales on light scattering by hexagonal ice crystals large compared to the wavelength: DDA results. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 225-239.	2.3	17
28	Radiative transfer with reciprocal transactions: Numerical method and its implementation. PLoS ONE, 2019, 14, e0210155.	2.5	17
29	Selecting asteroids for a targeted spectroscopic survey. Astronomy and Astrophysics, 2014, 572, A29.	5.1	16
30	Rigorous light-scattering simulations of nanophase iron space-weathering effects on reflectance spectra of olivine grains. Icarus, 2020, 345, 113727.	2.5	15
31	Asteroid spectral taxonomy using neural networks. Astronomy and Astrophysics, 2021, 649, A46.	5.1	15
32	Laboratory spectroscopy of meteorite samples at UV-vis-NIR wavelengths: Analysis and discrimination by principal components analysis. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 189-197.	2.3	14
33	Asteroid lightcurve inversion with Bayesian inference. Astronomy and Astrophysics, 2020, 642, A138.	5.1	14
34	Analysis of the adequate size of a cord blood bank and comparison of HLA haplotype distributions between four populations. Human Immunology, 2013, 74, 189-195.	2.4	13
35	Spectral modeling of meteorites at UV-vis-NIR wavelengths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 144-151.	2.3	13
36	Omnidirectional microscopy by ultrasonic sample control. Applied Physics Letters, 2020, 116, .	3.3	13

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37	Asteroid absolute magnitudes and phase curve parameters from <i>Gaia</i> photometry. Astronomy and Astrophysics, 2021, 649, A98.	5.1	13
38	Experimental constraints on the ordinary chondrite shock darkening caused by asteroid collisions. Astronomy and Astrophysics, 2020, 639, A146.	5.1	13
39	Scattering Properties of Large Irregular Cosmic Dust Particles at Visible Wavelengths. Astrophysical Journal, 2017, 838, 74.	4.5	12
40	The effect of particle shape on scattering—A study with a collection of axisymmetric particles and sphere clusters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 89, 303-310.	2.3	11
41	Quasi-specular reflection from particulate media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 131, 130-137.	2.3	11
42	Inferring asteroid surface properties from radar albedos and circularâ€polarization ratios. Meteoritics and Planetary Science, 2014, 49, 86-94.	1.6	11
43	Non-destructive controlled single-particle light scattering measurement. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 204, 159-164.	2.3	11
44	Where is the machine looking? Locating discriminative light-scattering features by class-activation mapping. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106936.	2.3	11
45	Comparison of space weathering spectral changes induced by solar wind and micrometeoroid impacts using ion- and femtosecond-laser-irradiated olivine and pyroxene. Astronomy and Astrophysics, 2021, 654, A143.	5.1	11
46	Distinguishing between Shock-darkening and Space-weathering Trends in Ordinary Chondrite Reflectance Spectra. Planetary Science Journal, 2020, 1, 37.	3.6	11
47	Light-scattering efficiency of starch acetate pigments as a function of size and packing density. Applied Optics, 2006, 45, 3501.	2.1	10
48	Circular polarization of spherical-particle aggregates at backscattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 150-159.	2.3	10
49	Nanospacecraft fleet for multi-asteroid touring with electric solar wind sails. , 2018, , .		10
50	How much is enough? The convergence of finite sample scattering properties to those of infinite media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107524.	2.3	10
51	Phase integral of asteroids. Astronomy and Astrophysics, 2019, 626, A87.	5.1	9
52	The effect of the properties of porous media on light scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1993-2001.	2.3	8
53	Radar albedos and circular-polarization ratios for realistic inhomogeneous media using the discrete-dipole approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 480-491.	2.3	8
54	Inhomogeneous particle model for light-scattering by cometary dust. Planetary and Space Science, 2015, 118, 164-172.	1.7	8

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55	Multiple Scattering in Discrete Random Media Using Firstâ€Order Incoherent Interactions. Radio Science, 2017, 52, 1419-1431.	1.6	8
56	Comparison of discrete exterior calculus and discrete-dipole approximation for electromagnetic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 417-423.	2.3	7
57	Simulations of Effects of Nanophase Iron Space Weather Products on Lunar Regolith Reflectance Spectra. Astrophysical Journal, 2018, 853, 71.	4.5	7
58	Scattering And Absorption of Light in Planetary Regoliths. Journal of Visualized Experiments, 2019, , .	0.3	7
59	Multifrequency Acoustic Levitation. , 2019, , .		7
60	C-band scattering simulation of a Scots pine shoot. Waves in Random and Complex Media, 2007, 17, 85-98.	2.7	6
61	Multiple scattering of light in particulate planetary media. , 2015, , 114-129.		6
62	Added-value interfaces to asteroid photometric and spectroscopic data in the Gaia database. Advances in Space Research, 2018, 62, 464-476.	2.6	6
63	4Ï€ Scatterometer: A new technique for understanding the general and complete scattering properties of particulate media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106910.	2.3	6
64	Taxonomy of Asteroids From the Legacy Survey of Space and Time Using Neural Networks. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	6
65	Modelling light scattering by absorbing smooth and slightly rough facetted particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 157, 71-80.	2.3	5
66	Discussion of a physical optics method and its application to absorbing smooth and slightly rough hexagonal prisms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 54-67.	2.3	5
67	Absolute spectral modelling of asteroid (4) Vesta. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1952-1956.	4.4	5
68	Laser processing of minerals common on asteroids. Optics and Laser Technology, 2021, 135, 106724.	4.6	5
69	Asteroid Photometric Phase Functions From Bayesian Lightcurve Inversion. Frontiers in Astronomy and Space Sciences, 0, 9, .	2.8	5
70	Multiple scattering by dense random media: Volume-element extinction. , 2016, , .		2
71	Validation of radiative transfer and coherent backscattering for discrete random media. , 2016, , .		2
72	Coherent backscattering effects with Discrete Dipole Approximation method. , 2007, , .		2

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73	Temporal Variation of the Shortwave Spherical Albedo of the Earth. Frontiers in Remote Sensing, 2022, 3, .	3.5	2
74	Spectral properties and surface uniformity of black glass gloss references. Optical Engineering, 2009, 48, 033603.	1.0	1
75	Spectroscopic investigations of meteorites. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 391-401.	2.3	1
76	Multiple scattering by dense random media: Numerical solution. , 2016, , .		1
77	Simulating Acoustic Orientation Trapping for Stable Levitation. , 2019, , .		1
78	Spectral Reflectance Processing via Local Wavelength-Direction Correlations. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 948-952.	3.1	1
79	Noise reduction in asteroid imaging using a miniaturized spectral imager. , 2021, , .		1
80	Asteroids, comets, meteors, and their interrelations. Part II: Editorial review. Planetary and Space Science, 2016, 123, 1-3.	1.7	0
81	Experimental light scattering by small particles: first results with a novel Mueller matrix scatterometer. , 2017, , .		0
82	Experimental light scattering by small particles: system design and calibration. Proceedings of SPIE, 2017, , .	0.8	0
83	Super-resolution photonic nanojet interferometry: photonic nanojet interaction with a polymer sample. , 2017, , .		0
84	Light scattering by ultrasonically-controlled small particles: system design, calibration, and measurement results. , 2018, , .		0