Miroslav Kocifaj

List of Publications by Year
in descending order

184 papers	2,435 citations	257450 24 h-index	315739 38 g-index
189 all docs	189 docs citations	189 times ranked	1355 citing authors

#	Article	IF	Citations
1	Evaluating Potential Spectral Impacts of Various Artificial Lights on Melatonin Suppression, Photosynthesis, and Star Visibility. PLoS ONE, 2013, 8, e67798.	2.5	140
2	Light-pollution model for cloudy and cloudless night skies with ground-based light sources. Applied Optics, 2007, 46, 3013.	2.1	96
3	Sky Quality Meter measurements in a colour-changing world. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2966-2979.	4.4	90
4	Scattering of electromagnetic waves by charged spheres and some physical consequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 170-183.	2.3	86
5	Formation of recurring slope lineae on Mars by rarefied gas-triggered granular flows. Nature Geoscience, 2017, 10, 270-273.	12.9	71
6	ON THE SCATTERING OF ELECTROMAGNETIC WAVES BY A CHARGED SPHERE. Progress in Electromagnetics Research, 2010, 109, 17-35.	4.4	52
7	Using two light-pollution models to investigate artificial sky radiances at Canary Islands observatories. Monthly Notices of the Royal Astronomical Society, 2012, 422, 819-830.	4.4	50
8	HOLIGILM: Hollow light guide interior illumination method â€“ An analytic calculation approach for cylindrical light-tubes. Solar Energy, 2008, 82, 247-259.	6.1	46
9	Tables of phase functions, opacities, albedos, equilibrium temperatures, and radiative accelerations of dust grains in exoplanets. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2-27.	4.4	45
10	Scattering of electromagnetic waves by charged spheres: near-field external intensity distribution. Optics Letters, 2012, 37, 265.	3.3	39
11	The spectral amplification effect of clouds to the night sky radiance in Madrid. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 181, 11-23.	2.3	38
12	Daylight Science and Daylighting Technology. , 2012, , .		37
13	Multiple scattering contribution to the diffuse light of a night sky: A model which embraces all orders of scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 260-272.	2.3	36
14	Angular distribution of scattered radiation under broken cloud arrays: An approximation of successive orders of scattering. Solar Energy, 2012, 86, 3575-3586.	6.1	35
15	Optical behavior of composite carbonaceous aerosols: DDA and EMT approaches. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1404-1416.	2.3	33
16	Night-sky radiometry can revolutionize the characterization of light-pollution sources globally. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7712-7717.	7.1	33
17	Skyglow changes over Tucson, Arizona, resulting from a municipal LED street lighting conversion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 212, 10-23.	2.3	31
18	Unified model of radiance patterns under arbitrary sky conditions. Solar Energy, 2015, 115, 40-51.	6.1	30

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19	Generalization of electromagnetic scattering by charged grains through incorporation of interband and intraband effects. Optics Letters, 2015, 40, 5070.	3.3	28
20	The proliferation of space objects is a rapidly increasing source of artificial night sky brightness. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 504, L40-L44.	3.3	27
21	Analytical solution for daylight transmission via hollow light pipes with a transparent glazing. Solar Energy, 2009, 83, 186-192.	6.1	26
22	A numerical experiment on light pollution from distant sources. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3609-3615.	4.4	26
23	Quantitative analysis of night skyglow amplification under cloudy conditions. Monthly Notices of the Royal Astronomical Society, 2014, 443, 3665-3674.	4.4	26
24	Chargeâ€induced electromagnetic resonances in nanoparticles. Annalen Der Physik, 2015, 527, 765-769.	2.4	26
25	Optical properties of single mixed-phase aerosol particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2108-2123.	2.3	25
26	Light absorption by coated nano-sized carbonaceous particles. Atmospheric Environment, 2008, 42, 2571-2581.	4.1	25
27	Optical signatures of electrically charged particles: Fundamental problems and solutions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 45-53.	2.3	25
28	Light Pollution in Ultraviolet and Visible Spectrum: Effect on Different Visual Perceptions. PLoS ONE, 2013, 8, e56563.	2.5	25
29	USING THE MULTIPLE SCATTERING THEORY FOR CALCULATION OF THE RADIATION FLUXES FROM EXPERIMENTAL AEROSOL DATA. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 933-942.	2.3	24
30	Sky luminance/radiance model with multiple scattering effect. Solar Energy, 2009, 83, 1914-1922.	6.1	24
31	Dust ejection from planetary bodies by temperature gradients: Laboratory experiments. Icarus, 2011, 212, 935-940.	2.5	24
32	Light pollution as a factor in breast and prostate cancer. Science of the Total Environment, 2022, 806, 150918.	8.0	24
33	Simulation of the optical properties of single composite aerosols. Journal of Aerosol Science, 2006, 37, 1683-1695.	3.8	23
34	Luminous effectiveness of tubular light-guides in tropics. Applied Energy, 2010, 87, 3460-3466.	10.1	23
35	Motion of nonspherical dust particle under the action of electromagnetic radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 70, 595-610.	2.3	22
36	Towards a comprehensive city emission function (CCEF). Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 253-266.	2.3	22

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37	Impacts of surface albedo variations on the night sky brightness â€“ A numerical and experimental analysis. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106648.	2.3	22
38	Light pollution simulations for planar ground-based light sources. Applied Optics, 2008, 47, 792.	2.1	21
39	Theoretical solution for light transmission of a bended hollow light guide. Solar Energy, 2010, 84, 1422-1432.	6.1	21
40	Air pollution mitigation can reduce the brightness of the night sky in and near cities. Scientific Reports, 2021, 11, 14622.	3.3	21
41	Availability of luminous flux below a bended light-pipe: Design modelling under optimal daylight conditions. Solar Energy, 2012, 86, 2753-2761.	6.1	20
42	Straight light pipesâ€™ daylighting: A case study for different climatic zones. Solar Energy, 2018, 170, 56-63.	6.1	20
43	Retrieval of Garstang's emission function from all-sky camera images. Monthly Notices of the Royal Astronomical Society, 2015, 453, 819-827.	4.4	19
44	On the relation between zenith sky brightness and horizontal illuminance. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2895-2901.	4.4	19
45	Angular scattering of the Gobi Desert aerosol and its influence on radiative forcing. Journal of Aerosol Science, 2006, 37, 1287-1302.	3.8	18
46	Optical properties of urban aerosols in the region Bratislavaâ€“Vienna I. Methods and tests. Atmospheric Environment, 2006, 40, 1922-1934.	4.1	18
47	Efficient tubular light guide with two-component glazing with Lambertian diffuser and clear glass. Applied Energy, 2009, 86, 1031-1036.	10.1	18
48	An insolation activated dust layer on Mars. Icarus, 2015, 260, 23-28.	2.5	18
49	Effect of charged-particle surface excitations on near-field optics. Applied Optics, 2015, 54, 6674.	2.1	18
50	A review of the theoretical and numerical approaches to modeling skyglow: Iterative approach to RTE, MSOS, and two-stream approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 181, 2-10.	2.3	18
51	Modeling diffuse irradiance under arbitrary and homogeneous skies: Comparison and validation. Applied Energy, 2016, 166, 117-127.	10.1	18
52	Optical effects of irregular cosmic dust particle U2015 B10. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 63, 1-14.	2.3	17
53	Radiative cooling within illuminated layers of dust on (pre)-planetary surfaces and its effect on dust ejection. Icarus, 2011, 211, 832-838.	2.5	17
54	Backscatter in a cloudy atmosphere as a lightning-threat indicator. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 150, 175-180.	2.3	16

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55	Recovering the city street lighting fraction from skyglow measurements in a large-scale municipal dimming experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107120.	2.3	16
56	Inversion of extinction data for irregularly shaped particles. Atmospheric Environment, 2005, 39, 1481-1495.	4.1	15
57	Multiple Angle Observations Would Benefit Visible Band Remote Sensing Using Night Lights. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	15
58	Retrieval of aerosol aspect ratio from optical measurements in Vienna. Atmospheric Environment, 2008, 42, 2582-2592.	4.1	14
59	Optical properties of a polydispersion of small charged cosmic dust particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2561-2566.	2.3	13
60	Skyglow effects in UV and visible spectra: Radiative fluxes. Journal of Environmental Management, 2013, 127, 300-307.	7.8	13
61	Skyglow: a retrieval of the approximate radiant intensity function of ground-based light sources. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3405-3413.	4.4	13
62	Urban night-sky luminance due to different cloud types: A numerical experiment. Lighting Research and Technology, 2016, 48, 1017-1033.	2.7	13
63	Accurate tool for express optical efficiency analysis of cylindrical light-tubes with arbitrary aspect ratios. Solar Energy, 2018, 169, 264-269.	6.1	13
64	Aerosol characterization using satellite remote sensing of light pollution sources at night. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 495, L76-L80.	3.3	13
65	Optical properties of urban aerosols in the region Bratislavaâ€"Viennaâ€"II: Comparisons and results. Atmospheric Environment, 2006, 40, 1935-1948.	4.1	12
66	Theoretical evaluation of errors in aerosol optical depth retrievals from ground-based direct-sun measurements due to circumsolar and related effects. Atmospheric Environment, 2011, 45, 1050-1058.	4.1	12
67	Urban artificial light emission function determined experimentally using night sky images. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 181, 87-95.	2.3	12
68	Optical resonances in electrically charged particles and their relation to the Drude model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 178, 224-229.	2.3	12
69	A role of aerosol particles in forming urban skyglow and skyglow from distant cities. Monthly Notices of the Royal Astronomical Society, 2016, 458, 438-448.	4.4	12
70	Hollow light guide efficiency and illuminance distribution on the light-tube base under overcast and clear sky conditions. Optik, 2013, 124, 3165-3169.	2.9	11
71	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
72	Temperature-influenced dynamics of small dust particles. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1876-1884.	4.4	10

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73	Luminous intensity solid of tubular light guide and its characterization using â€œasymmetry parameterâ€• Solar Energy, 2011, 85, 2003-2010.	6.1	10
74	Modeling the night-sky radiances and inversion of multi-angle and multi-spectral radiance data. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 139, 35-42.	2.3	10
75	Night sky luminance under clear sky conditions: Theory vs. experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 139, 43-51.	2.3	10
76	Retrieval of angular emission function from whole-city light sources using night-sky brightness measurements. Optica, 2017, 4, 255.	9.3	10
77	Illumination of interior spaces by bended hollow light guides: Application of the theoretical light propagation method. Solar Energy, 2010, 84, 2112-2119.	6.1	9
78	Uncertainty of daylight illuminance on vertical building faÃ§ades when determined from sky scanner data: A numerical study. Solar Energy, 2014, 110, 15-21.	6.1	9
79	Angular Emission Function of a City and Skyglow Modeling: A Critical Perspective. Publications of the Astronomical Society of the Pacific, 2016, 128, 124001.	3.1	9
80	An advanced clear-sky model for more accurate irradiance and illuminance predictions for arbitrarily oriented inclined surfaces. Renewable Energy, 2017, 106, 212-221.	8.9	9
81	An asymptotic formula for skyglow modelling over a large territory. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2214-2224.	4.4	9
82	Diffuse light around cities: New perspectives in satellite remote sensing of nighttime aerosols. Atmospheric Research, 2022, 266, 105969.	4.1	9
83	Modelling the spectral behaviour of night skylight close to artificial light sources. Monthly Notices of the Royal Astronomical Society, 2010, 403, 2105-2110.	4.4	8
84	Overcast sky luminance is dependent on the physical state of the atmosphere below cloud level. Lighting Research and Technology, 2010, 42, 149-159.	2.7	8
85	Modal evaluation of the anthropogenic night sky brightness at arbitrary distances from a light source. Journal of Optics (United Kingdom), 2015, 17, 105607.	2.2	8
86	Night-time monitoring of the aerosol content of the lower atmosphere by differential photometry of the anthropogenic skyglow. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L47-L51.	3.3	8
87	Times of inspiralling for interplanetary dust grains. Monthly Notices of the Royal Astronomical Society, 2008, , .	4.4	7
88	Approximate analytical scattering phase function dependent on microphysical characteristics of dust particles. Applied Optics, 2011, 50, 2493.	2.1	7
89	CIE standard sky model with reduced number of scaling parameters. Solar Energy, 2011, 85, 553-559.	6.1	7
90	PePSS - A portable sky scanner for measuring extremely low night-sky brightness. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 74-81.	2.3	7

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91	Retrieving the size distribution of microparticles by scanning the diffraction halo with a mobile ring-gap detector. Journal of Aerosol Science, 1997, 28, 797-804.	3.8	6
92	On applicability of model aerosol distributions for urban region of Bratislava city. Atmospheric Environment, 2001, 35, 5105-5115.	4.1	6
93	Retrieval of size distribution for urban aerosols using multispectral optical data. Journal of Physics: Conference Series, 2005, 6, 97-102.	0.4	6
94	Effect of radiation on dust particles in orbital resonances. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 100, 187-198.	2.3	6
95	Modelling clear sky colours: A single scattering approach. Lighting Research and Technology, 2011, 43, 497-513.	2.7	6
96	Optical characterization of electrically charged particles using discrete dipole approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 184, 161-166.	2.3	6
97	Modeling the night sky brightness distribution via new SkyGlow Simulator. , 2016, , .		6
98	Two-index model for characterizing site-specific night sky brightness patterns. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1953-1960.	4.4	6
99	Charge-controlled optical resonances in small particles: Recent developments, challenges and prospects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106703.	2.3	6
100	The Nature, Amplitude and Control of Microwave Attenuation in the Atmosphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034978.	3.3	6
101	Motion of dust near exterior resonances with planet. Journal of Physics: Conference Series, 2005, 6, 126-131.	0.4	5
102	Perihelion motion of small irregular dust particles due to radiation forces. Planetary and Space Science, 2006, 54, 379-393.	1.7	5
103	Nonspherical dust grains in mean-motion orbital resonances. Astronomy and Astrophysics, 2008, 483, 311-315.	5.1	5
104	A review of the effects of light scattering on the dynamics of irregularly shaped dust grains in the Solar System. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 879-888.	2.3	5
105	The effect of spatial and spectral heterogeneity of ground-based light sources on night-sky radiances. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1203-1212.	4.4	5
106	Dust ejection from (pre-)planetary bodies by temperature gradients: radiative and heat transfer. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	5
107	Two-stream approximation for rapid modeling the light pollution levels in local atmosphere. Astrophysics and Space Science, 2012, 341, 301-307.	1.4	5
108	Theoretical conditions for charge-induced normal modes in spherical particles. Laser Physics Letters, 2013, 10, 055901.	1.4	5

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109	Broadband and luminous extinction coefficients in a clean and dry atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 173, 20-25.	2.3	5
110	Numerical research on the effects the skyglow could have in phytochromes and RQE photoreceptors of plants. Journal of Environmental Management, 2018, 209, 484-494.	7.8	5
111	Optical properties of charged nonspherical particles determined using the discrete dipole approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107245.	2.3	5
112	Are population-based models advantageous in estimating the lumen outputs from light-pollution sources?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L138-L141.	3.3	5
113	Using ground-based measurements to recover the spectra of radiation escaping from distant light-pollution sources. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2739-2745.	4.4	5
114	Poynting-Robertson effect and perihelion motion. Astronomy and Astrophysics, 2007, 464, 127-134.	5.1	5
115	Vertical profile calculation of the attenuation coefficient of atmospheric aerosol based on the spectral radiance measurements of day-sky. Studia Geophysica Et Geodaetica, 1992, 36, 376-391.	0.5	4
116	The utilization of the lunar eclipse effect for characterization of microparticles in high atmosphere. Studia Geophysica Et Geodaetica, 1994, 38, 304-315.	0.5	4
117	Relation between the structure of particles of the dispersion layer and its spectral optical thickness in an optically thin environment. Studia Geophysica Et Geodaetica, 1994, 38, 399-415.	0.5	4
118	Solving the diffusion of solar radiation in the atmosphere and identifying the aerosol structure. Atmospheric Environment, 1994, 28, 777-783.	4.1	4
119	The capture of interstellar dust: the pure electromagnetic radiation case. Planetary and Space Science, 2003, 51, 617-626.	1.7	4
120	The capture of interstellar dust: the Lorentz force case. Planetary and Space Science, 2004, 52, 839-847.	1.7	4
121	Dynamical behaviour of interstellar dust particles in the solar system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 89, 165-177.	2.3	4
122	Reevaluation of the quondam dust trend in the middle atmosphere. Applied Optics, 2005, 44, 7378.	2.1	4
123	Dynamics of dust grains with a vaporable icy mantle. Monthly Notices of the Royal Astronomical Society, 2008, 391, 1771-1777.	4.4	4
124	Light pollution model for cloudy and cloudless night skies with ground-based light sources: errata. Applied Optics, 2009, 48, 4650.	2.1	4
125	Tubular Light Guides: Estimation of Indoor Illuminance Levels. LEUKOS - Journal of Illuminating Engineering Society of North America, 2010, 6, 241-252.	2.9	4
126	The 250th anniversary of daylight science: Looking back and looking forward. Lighting Research and Technology, 2010, 42, 479-486.	2.7	4

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127	Statistical cloud coverage as determined from sunshine duration: a model applicable in daylighting and solar energy forecasting. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 150-151, 1-8.	1.6	4
128	Ground albedo impacts on higher-order scattering spectral radiances of night sky. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106670.	2.3	4
129	Designing of light-pipe diffuser through its computed optical properties: A novel solution technique and some consequences. Solar Energy, 2019, 190, 386-395.	6.1	4
130	Night-sky imaging as a potential tool for characterization of total lumen output from small and medium-sized cities. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5008-5017.	4.4	4
131	Modelled impacts of a potential light emitting diode lighting system conversion and the influence of an extremely polluted atmosphere in Mexico City. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832110127.	2.0	4
132	Estimating linear radiance indicators from the zenith night-sky brightness: on the Posch ratio for natural and light-polluted skies. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2125-2134.	4.4	4
133	On the uncertainty of the transmission function of the optically thick AGB dust shells. Astrophysics and Space Science, 2008, 317, 31-38.	1.4	3
134	Light scattering simulations relevant to crystallization of lithiumdisilicate glass. Journal of Non-Crystalline Solids, 2011, 357, 1452-1454.	3.1	3
135	Blurring the boundaries between Standard General Sky types due to multiple scattering of light. Lighting Research and Technology, 2013, 45, 485-494.	2.7	3
136	Topical issue on optical particle characterization and remote sensing of the atmosphere: Part II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 153, 1-3.	2.3	3
137	Aspect ratio as a function of particle radius: Inversion of extinction and scattering data. Atmospheric Environment, 2015, 109, 19-22.	4.1	3
138	An Accurate Prediction of Daylight Pipe Harvesting of Interior Space. Applied Sciences (Switzerland), 2019, 9, 3552.	2.5	3
139	Electromagnetic resonances observed in small, charged particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107798.	2.3	3
140	The significant impact of shape deviations of atmospheric aerosols on light monitoring networks. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1805-1813.	4.4	3
141	Computed optical transmission records: An effect of dense-medium phase function as an approximate description of multiple light scattering. Journal of Non-Crystalline Solids, 2012, 358, 360-363.	3.1	2
142	Aerosol size distribution retrievals from sunphotometer measurements: Theoretical evaluation of errors due to circumsolar and related effects. Atmospheric Environment, 2012, 51, 131-139.	4.1	2
143	On some microphysical properties of dust grains captured into resonances with Neptune. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1665-1673.	4.4	2
144	Polyvinylpyrrolidone thin film pyrolysis as accessed by the real-time optical transmission measurements. Journal of Thermal Analysis and Calorimetry, 2013, 114, 417-422.	3.6	2

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145	Optics of hemispherical top dome and its effect on tubular light guide efficiency: diffuse light case. Applied Optics, 2013, 52, 1100.	1.8	2
146	Modeling the aerosol effects on the light field below a tubular-pipe: A case of clear sky conditions. Solar Energy, 2014, 107, 122-134.	6.1	2
147	Editorial: Special issue on light pollution. Lighting Research and Technology, 2014, 46, 3-3.	2.7	2
148	Research on spectral factors towards determining nocturnal ground irradiance under overcast sky conditions in densely populated regions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 126-132.	2.3	2
149	Emission spectra of light-pollution sources determined from the light-scattering spectrometry of the night sky. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5586-5594.	4.4	2
150	Physics interpretation of ISO/CIE sky types. Solar Energy, 2021, 225, 3-10.	6.1	2
151	Nighttime Atmospheric Scattering Phase Function Derived From the Scattered Light of a Laser Beam. Geophysical Research Letters, 2022, 49, .	4.0	2
152	35 P 02 Influence of aerosol on solar radiation fluxes. Journal of Aerosol Science, 1993, 24, S383-S384.	3.8	1
153	Diffusion of radiation in planetary atmospheres. Earth, Moon and Planets, 1994, 65, 21-29.	0.6	1
154	14.P.21 Vertical gradient of particle concentration and variability of diffuse and direct solar radiation. Journal of Aerosol Science, 1994, 25, 585-586.	3.8	1
155	Invariant of motion for interstellar dust captured in the solar system. Proceedings of the International Astronomical Union, 2004, 2004, 415-420.	0.0	1
156	Nonspherical dust in exterior resonances with Neptune. Proceedings of the International Astronomical Union, 2004, 2004, 421-424.	0.0	1
157	Nonspherical zodiacal dust particles driven by radiation pressure. Planetary and Space Science, 2010, 58, 1050-1054.	1.7	1
158	Propagation of Light in the Atmospheric Environment. , 2011, , 97-125.		1
159	Theoretical thermo-optical patterns relevant to glass crystallisation. Chemical Papers, 2011, 65, .	2.2	1
160	The influence of ground reflectance on the overcast sky luminance. Lighting Research and Technology, 2011, 43, 45-54.	2.7	1
161	Modeling the optical transmission of crystalline-glass materials composed of densely packed Mie particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 131, 115-120.	2.3	1
162	A rapid approximate inversion of extinction data for partially absorbing particles. Optik, 2015, 126, 4832-4836.	2.9	1

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163	Rapid approach to the quantitative determination of nocturnal ground irradiance in populated territories: a clear-sky case. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2739-2746.	4.4	1
164	Multi-wavelength radiometry of aerosols designed for more accurate night sky brightness predictions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 106998.	2.3	1
165	A method of computing the vertical profile of ozone concentration based on radiation field analysis. Studia Geophysica Et Geodaetica, 1994, 38, 416-422.	0.5	0
166	Theory of optical identification of submicron particles in high atmosphere. Earth, Moon and Planets, 1995, 68, 385-388.	0.6	0
167	Influence of stratospheric dust layer particles on vertical changes of energy distribution in the shortwave spectrum. Studia Geophysica Et Geodaetica, 1995, 39, 37-48.	0.5	0
168	Test of gamma function as particle size distribution using radiance data. Journal of Aerosol Science, 1996, 27, S563-S564.	3.8	0
169	Scalar multiple scattering model for remote sensing applications. , 0, , .		0
170	Daylight Methods and Tools to Design Glazed Windows and Skylights. , 2011, , 233-255.		0
171	Sky Luminance Characteristics. , 2011, , 127-154.		0
172	X-ray scattering in the elastic regime as source for 3D imaging reconstruction technique. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 166, 64-67.	2.3	0
173	Orbital evolution of dust in the Edgeworthâ€“Kuiper belt zone. Monthly Notices of the Royal Astronomical Society, 2015, 450, 523-532.	4.4	0
174	Editorial: Special issue on remote sensing of light pollution. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 181, 1.	2.3	0
175	Recognition of the carbon thin films sub-structures: thermo-optical measurements. Chemical Papers, 2017, 71, 2167-2171.	2.2	0
176	Submicrometer-sized nonspherical particle separation by laser beam. Applied Optics, 2017, 56, 8081.	1.8	0
177	Bended Light-Guide Modeling Under Broken Cloud Arrays. , 2018, , .		0
178	SkyGlow Model Successfully Applied to the Evaluation of the Light Pollution over Tucson, U.S.. , 2018, , .		0
179	Editorial: Special issue light pollution: theory, modelling, and measurements (2019). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 269, 107499.	2.3	0
180	Variability of Diffuse Daylight Due to the Diversity of Cloud Arrays. Applied Sciences (Switzerland), 2021, 11, 9190.	2.5	0

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181	Interaction of Stationary Nonspherical Interplanetary Dust Particle with Solar Electromagnetic Radiation. , 2001, , 359-361.		0
182	Simplified Solution of the Inverse Problem for Instantaneous Cometary Dust Size Distribution. , 2002, , 159-170.		0
183	A SYSTEM AND A DEVICE FOR ISOLATING CIRCULATING TUMOR CELLS FROM THE PERIPHERAL BLOOD IN VIVO. Acta Polytechnica, 2015, 55, 242.	0.6	0
184	Towards a global map of the artificial all-sky brightness. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 513, L25-L29.	3.3	0