

Marco A C Potenza

List of Publications by Year in descending order

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59
papers

992
citations

430874

18
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477307

29
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61
all docs

61
docs citations

61
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	On the quasi-universality of the forward light scattering lobe for micrometric objects. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 278, 108028.	2.3	2
2	Two-dimensional electron beam size measurements with x-ray heterodyne near field speckles. <i>Physical Review Accelerators and Beams</i> , 2022, 25, .	1.6	4
3	Heterodyne Near Field Speckles: from laser light to X-rays. <i>Advances in Physics: X</i> , 2021, 6, .	4.1	2
4	An extremely simplified optics laboratory for teaching the fundamentals of Fourier analysis. <i>European Journal of Physics</i> , 2021, 42, 035304.	0.6	1
5	Dense-code free space transmission by local demultiplexing optical states of a composed vortex. <i>Optics Express</i> , 2021, 29, 14412.	3.4	4
6	Optical Characterization of Mineral Dust from the EAIIST Project with Digital Holography. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2855-2864.	2.7	7
7	Light extinction and scattering from aggregates composed of submicron particles. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	5
8	Near field scattering for samples under forced flow. <i>Review of Scientific Instruments</i> , 2020, 91, 075108.	1.3	4
9	Multiparametric optical characterization of airborne dust with single particle extinction and scattering. <i>Aerosol Science and Technology</i> , 2020, 54, 353-366.	3.1	10
10	Measuring the topological charge of orbital angular momentum radiation in single-shot by means of the wavefront intrinsic curvature. <i>Applied Optics</i> , 2020, 59, 5258.	1.8	7
11	A very simple scheme for spectrally resolved imaging by means of curved polymeric gratings. <i>Materials Research Express</i> , 2019, 6, 065044.	1.6	2
12	Single-shot measurement of phase and topological properties of orbital angular momentum radiation through asymmetric lateral coherence. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	10
13	The local intrinsic curvature of wavefronts allows to detect optical vortices. <i>Optics Express</i> , 2019, 27, 17550.	3.4	10
14	Particle shape accounts for instrumental discrepancy in ice core dust size distributions. <i>Climate of the Past</i> , 2018, 14, 601-608.	3.4	20
15	Asymmetric lateral coherence of OAM radiation reveals topological charge and local curvature. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 075605.	2.2	9
16	Asymmetric lateral coherence allows precise wavefront characterization. <i>Europhysics Letters</i> , 2018, 122, 44001.	2.0	7
17	Innovative Instrumentation for the Study of Atmospheric Aerosol Optical Properties. , 2018, , 47-56.		0
18	Detecting the shape of anisotropic gold nanoparticles in dispersion with single particle extinction and scattering. <i>Nanoscale</i> , 2017, 9, 2778-2784.	5.6	28

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19	Radiative Transfer in a Translucent Cloud Illuminated by an Extended Background Source. <i>Astrophysical Journal</i> , 2017, 840, 55.	4.5	2
20	Single Particle Extinction and Scattering allows novel optical characterization of aerosols. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	9
21	Single particle extinction and scattering optical method unveils in real time the influence of the blood components on polymeric nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2597-2603.	3.3	7
22	Single-Particle Extinction and Scattering Method Allows for Detection and Characterization of Aggregates of Aeolian Dust Grains in Ice Cores. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 261-269.	2.7	7
23	Hyperspectral imaging with deformable gratings fabricated with metal-elastomer nanocomposites. <i>Review of Scientific Instruments</i> , 2017, 88, 113105.	1.3	9
24	A sensor for vector electric field measurements through a nonlinear anisotropic optical crystal. <i>Review of Scientific Instruments</i> , 2017, 88, 113114.	1.3	6
25	Characterizing temporal coherence of visible synchrotron radiation with heterodyne near field speckles. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	7
26	Optical Characterization of Industrial Slurries. <i>KONA Powder and Particle Journal</i> , 2016, 33, 310-321.	1.7	4
27	A modified two-slit interferometer for characterizing the asymmetric lateral coherence of undulator radiation. <i>Europhysics Letters</i> , 2016, 115, 14004.	2.0	10
28	Measuring shape and size of micrometric particles from the analysis of the forward scattered field. <i>Journal of Applied Physics</i> , 2016, 119, 224901.	2.5	19
29	Note: Nanosecond LED-based source for optical modeling of scintillators illuminated by partially coherent X-ray radiation. <i>Review of Scientific Instruments</i> , 2016, 87, 126104.	1.3	2
30	Metal-polymer nanocomposites for stretchable optics and plasmonics. , 2016, , .		2
31	Shape and size constraints on dust optical properties from the Dome C ice core, Antarctica. <i>Scientific Reports</i> , 2016, 6, 28162.	3.3	54
32	Single particle optical extinction and scattering allows real time quantitative characterization of drug payload and degradation of polymeric nanoparticles. <i>Scientific Reports</i> , 2016, 5, 18228.	3.3	21
33	Measurement of power spectral density of broad-spectrum visible light with heterodyne near field scattering and its scalability to betatron radiation. <i>Optics Express</i> , 2015, 23, 32888.	3.4	10
34	Measuring the complex field scattered by single submicron particles. <i>AIP Advances</i> , 2015, 5, .	1.3	33
35	Asymmetric lateral coherence of betatron radiation emitted in laser-driven light sources. <i>Europhysics Letters</i> , 2015, 111, 44003.	2.0	17
36	Do protein crystals nucleate within dense liquid clusters?. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 815-822.	0.8	59

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37	The daylight sky and Avogadro's number. <i>European Journal of Physics</i> , 2015, 36, 065040.	0.6	4
38	Web tools concerning performance analysis and planning support for solar energy plants starting from remotely sensed optical images. <i>Environmental Impact Assessment Review</i> , 2015, 52, 18-23.	9.2	5
39	Accurate sizing of ceria oxide nanoparticles in slurries by the analysis of the optical forward-scattered field. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	18
40	Free nanoparticle characterization by optical scattered field analysis: opportunities and perspectives. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	19
41	A simple scanning spectrometer based on a stretchable elastomeric reflective grating. <i>Applied Physics Letters</i> , 2014, 104, 061910.	3.3	18
42	Mapping the transverse coherence of the self amplified spontaneous emission of a free-electron laser with the heterodyne speckle method. <i>Optics Express</i> , 2014, 22, 30013.	3.4	18
43	Dynamics of colloidal aggregation in microgravity by critical Casimir forces. <i>Europhysics Letters</i> , 2014, 106, 68005.	2.0	15
44	SODI-COLLOID: A combination of static and dynamic light scattering on board the International Space Station. <i>Review of Scientific Instruments</i> , 2013, 84, 043704.	1.3	25
45	A method for characterizing the stability of light sources. <i>Optics Express</i> , 2013, 21, 24630.	3.4	3
46	Colloidal Aggregation in Microgravity by Critical Casimir Forces. <i>Physical Review Letters</i> , 2012, 109, 248302.	7.8	49
47	EVIDENCE OF PHOTOEVAPORATION AND SPATIAL VARIATION OF GRAIN SIZES IN THE ORION 114-426 PROTOPLANETARY DISK. <i>Astrophysical Journal</i> , 2012, 757, 78.	4.5	26
48	Confocal zero-angle dynamic depolarized light scattering. <i>European Physical Journal E</i> , 2010, 31, 69-72.	1.6	13
49	How to Measure the Optical Thickness of Scattering Particles from the Phase Delay of Scattered Waves: Application to Turbid Samples. <i>Physical Review Letters</i> , 2010, 105, 193901.	7.8	27
50	Scattering from anisotropic particles: A challenge for the optical theorem?. <i>European Physical Journal E</i> , 2009, 29, 379-382.	1.6	11
51	Probing the Transverse Coherence of an Undulator X-Ray Beam Using Brownian Particles. <i>Physical Review Letters</i> , 2009, 103, 194805.	7.8	44
52	X-ray-scattering information obtained from near-field speckle. <i>Nature Physics</i> , 2008, 4, 238-243.	16.7	105
53	Dynamic heterodyne near field scattering. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	25
54	Heterodyne speckle velocimetry of Poiseuille flow. <i>Journal of Applied Physics</i> , 2007, 102, 073113.	2.5	7

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55	Heterodyne speckle velocimetry. Applied Physics Letters, 2006, 88, 191101.	3.3	18
56	Heterodyne near-field scattering: A technique for complex fluids. Physical Review E, 2004, 70, 041405.	2.1	57
57	Three dimensional imaging of short pulses. Optics Communications, 2004, 229, 381-390.	2.1	37
58	Near field scattering. Physical Chemistry Chemical Physics, 2004, 6, 1547-1550.	2.8	15
59	Real-time holograms generated by second-harmonic cross correlation of object and reference optical wave fields. Optics Letters, 2000, 25, 890.	3.3	23