

Fabrice Ra Onofri

List of Publications by Year in descending order

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55
papers

1,049
citations

394421

19
h-index

434195

31
g-index

59
all docs

59
docs citations

59
times ranked

553
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic scattering from a multilayered sphere located in an arbitrary beam. <i>Applied Optics</i> , 1995, 34, 7113.	2.1	146
2	Comparison of methods to derive morphological parameters of multi-fractal samples of particle aggregates from TEM images. <i>Journal of Aerosol Science</i> , 2012, 47, 12-26.	3.8	86
3	Vectorial complex ray model and application to two-dimensional scattering of plane wave by a spheroidal particle. <i>Optics Letters</i> , 2011, 36, 370.	3.3	54
4	Dual-Mode Phase-Doppler Anemometer. <i>Particle and Particle Systems Characterization</i> , 1996, 13, 165-170.	2.3	52
5	Phase-Doppler Anemometry with the Dual Burst Technique for measurement of refractive index and absorption coefficient simultaneously with size and velocity. <i>Particle and Particle Systems Characterization</i> , 1996, 13, 112-124.	2.3	48
6	Experimental validation of the vectorial complex ray model on the inter-caustics scattering of oblate droplets. <i>Optics Express</i> , 2015, 23, 15768.	3.4	41
7	Optical characterization of bubbly flows with a near-critical-angle scattering technique. <i>Experiments in Fluids</i> , 2009, 47, 721-732.	2.4	38
8	Algorithms and methods for analysis of the optical structure factor of fractal aggregates. <i>Metrology and Measurement Systems</i> , 2012, 19, 459-470.	1.4	33
9	Near-critical-angle scattering for the characterization of clouds of bubbles: particular effects. <i>Applied Optics</i> , 2011, 50, 5759.	2.1	31
10	On the Optical Characterisation of Nanoparticle and their Aggregates in Plasma Systems. <i>Contributions To Plasma Physics</i> , 2011, 51, 228-236.	1.1	30
11	Sizing highly-ordered buckyball-shaped aggregates of colloidal nanoparticles by light extinction spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 126, 160-168.	2.3	29
12	Critical angle refractometry and sizing of bubble clouds. <i>Optics Letters</i> , 2007, 32, 2070.	3.3	27
13	An introduction to light extinction spectrometry as a diagnostic for dust particle characterisation in dusty plasmas. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	26
14	On the Optical Diagnosis and Sizing of Spherical Coated and Multilayered Particles with phase-Doppler anemometry. <i>Particle and Particle Systems Characterization</i> , 1996, 13, 104-111.	2.3	25
15	High-resolution laser diffractometry for the on-line sizing of small transparent fibres. <i>Optics Communications</i> , 2004, 234, 183-191.	2.1	25
16	New Generation of Phase-Doppler Instruments for particle velocity, size and concentration measurements. <i>Particle and Particle Systems Characterization</i> , 1994, 11, 43-54.	2.3	24
17	Scattering of light by large bubbles: Coupling of geometrical and physical optics approximations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 8-18.	2.3	23
18	Size, velocity, and concentration in suspension measurements of spherical droplets and cylindrical jets. <i>Applied Optics</i> , 1999, 38, 4681.	2.1	21

#	ARTICLE	IF	CITATIONS
19	Development of an in situ ITER dust diagnostic based on extinction spectrometry: Dedicated light scattering models. <i>Journal of Nuclear Materials</i> , 2009, 390-391, 1093-1096.	2.7	21
20	Droplet sizing and mixture fraction measurement in liquid-liquid flows with rainbow-angle diffractometry. <i>Applied Optics</i> , 2017, 56, 8109.	1.8	19
21	Dust control in tokamak environment. <i>Fusion Engineering and Design</i> , 2008, 83, 1701-1705.	1.9	18
22	<i>In-situ</i> characterisation of the dynamics of a growing dust particle cloud in a direct-current argon glow discharge. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 045203.	2.8	16
23	Three interfering beams in laser Doppler velocimetry for particle position and microflow velocity profile measurements. <i>Applied Optics</i> , 2006, 45, 3317.	2.1	14
24	Dust in ITER: Diagnostics and removal techniques. <i>Journal of Nuclear Materials</i> , 2009, 386-388, 882-883.	2.7	14
25	Digital in-line holography for the characterization of flowing particles in astigmatic optical systems. <i>Optics and Lasers in Engineering</i> , 2017, 88, 184-196.	3.8	14
26	Photonic jet reconstruction for particle refractive index measurement by digital in-line holography. <i>Optics Express</i> , 2017, 25, 867.	3.4	14
27	Physical-optics approximation of near-critical-angle scattering by spheroidal bubbles. <i>Optics Letters</i> , 2012, 37, 4780.	3.3	13
28	Critical Angle Refractometry for Simultaneous Measurement of Particles in Flow: Size and Relative Refractive Index. <i>Particle and Particle Systems Characterization</i> , 1999, 16, 119-127.	2.3	12
29	Preface: Laser-light and Interactions with Particles (LIP), 2014. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 162, 1-7.	2.3	11
30	Bubbles, drops, and solid particles recognition from real or virtual photonic jets reconstructed by digital in-line holography. <i>Optics Letters</i> , 2018, 43, 2945.	3.3	10
31	Generalized rainbow patterns of oblate drops simulated by a ray model in three dimensions. <i>Optics Letters</i> , 2021, 46, 4585.	3.3	10
32	Accelerated microwave assisted synthesis of alumino-germanate imogolite nanotubes. <i>RSC Advances</i> , 2016, 6, 108146-108150.	3.6	9
33	Superimposed noninterfering probes to extend the capabilities of phase Doppler anemometry. <i>Applied Optics</i> , 2002, 41, 3590.	2.1	8
34	Interferometric Sizing of Single-Axis Birefringent Glass Fibers. <i>Particle and Particle Systems Characterization</i> , 2003, 20, 171-182.	2.3	8
35	High resolution monitoring of an unsteady glass fibre drawing process. <i>Experiments in Fluids</i> , 2007, 42, 601-610.	2.4	7
36	Experimental estimation of particle flow fluctuations in dense unsteady two-phase flow using phase Doppler anemometry. <i>International Journal of Multiphase Flow</i> , 2007, 33, 849-872.	3.4	7

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37	Organic photo sensors for multi-angle light scattering characterization of particle systems. Optics Express, 2015, 23, 27536.	3.4	7
38	Spray drying of colloidal suspensions: Coupling of particle drying and transport models with experimental validations. Chemical Engineering Research and Design, 2021, 170, 224-238.	5.6	6
39	Improved particle image velocimetry measurements in gas-particle flows with a dense wall layer. Measurement Science and Technology, 2003, 14, N9-N12.	2.6	5
40	Numerical study of glare spot phase Doppler anemometry. Optics Communications, 2008, 281, 1375-1383.	2.1	5
41	Microfluidic lab-on-a-chip characterization of nano- to microparticles suspensions by light extinction spectrometry. Optics Express, 2022, 30, 2981.	3.4	5
42	Averaging of particle data from phase Doppler anemometry in unsteady two-phase flow: Validation by numerical simulation. International Journal of Multiphase Flow, 2006, 32, 248-268.	3.4	4
43	In Situ Characterization of Dust Mobilized by Laser Cleaning Methods and Loss of Vacuum Accidents. Fusion Science and Technology, 2012, 62, 39-45.	1.1	4
44	Optical measurement of the drawing tension of small glass fibres. Measurement Science and Technology, 2004, 15, 1279-1284.	2.6	3
45	Development of Optical Techniques for Multiphase Flows Characterization. , 2017, , .		3
46	Inverse near-critical-angle scattering as a tool to characterize bubble clouds. Proceedings of SPIE, 2010, , .	0.8	2
47	Afterword. Laser-light and interactions with particles (LIP), 2018. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 45-49.	2.3	2
48	Numerical Analysis of the Sinuous Instability of a Viscous Capillary Jet Flowing Down an Immiscible Nonviscous Fluid. , 2006, , 677-684.		2
49	Diagnostics for Dust Monitoring in Tokamak Environment. AIP Conference Proceedings, 2008, , .	0.4	1
50	On the size and morphological characterization of needle-shaped TiO ₂ nanoparticles in suspension. , 2014, , .		1
51	Numerical Analysis of the Nonlinear Instability of One-Dimensional Compound Capillary Jet. Lecture Notes in Computer Science, 2001, , 692-701.	1.3	1
52	Glare Spot Phase Doppler Anemometry. AIP Conference Proceedings, 2007, , .	0.4	0
53	Digital in-line holography for the characterization of two phase flows in astigmatic systems. , 2016, , .		0
54	Ray Theory of Wave for Particle Scattering. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Contribution of Debye series to particle characterization with holography and the photonic jet method. , 2019, , .		0