Fabrice Ra Onofri

List of Publications by Year
in descending order

55	1,049	394421 19	434195 31
papers	citations	h-index	g-index

59	59	59	553
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microfluidic lab-on-a-chip characterization of nano- to microparticles suspensions by light extinction spectrometry. Optics Express, 2022, 30, 2981.	3.4	5
2	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
3	Generalized rainbow patterns of oblate drops simulated by a ray model in three dimensions. Optics Letters, 2021, 46, 4585.	3.3	10
4	Afterword. Laser-light and interactions with particles (LIP), 2018. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 45-49.	2.3	2
5	Contribution of Debye series to particle characterization with holography and the photonic jet method. , 2019, , .		0
6	Bubbles, drops, and solid particles recognition from real or virtual photonic jets reconstructed by digital in-line holography. Optics Letters, 2018, 43, 2945.	3.3	10
7	Development of Optical Techniques for Multiphase Flows Characterization. , 2017, , .		3
8	Digital in-line holography for the characterization of flowing particles in astigmatic optical systems. Optics and Lasers in Engineering, 2017, 88, 184-196.	3.8	14
9	Photonic jet reconstruction for particle refractive index measurement by digital in-line holography. Optics Express, 2017, 25, 867.	3.4	14
10	Droplet sizing and mixture fraction measurement in liquidâ€“liquid flows with rainbow-angle diffractometry. Applied Optics, 2017, 56, 8109.	1.8	19
11	Accelerated microwave assisted synthesis of alumino-germanate imogolite nanotubes. RSC Advances, 2016, 6, 108146-108150.	3.6	9
12	An introduction to light extinction spectrometry as a diagnostic for dust particle characterisation in dusty plasmas. Journal of Plasma Physics, 2016, 82, .	2.1	26
13	In-situcharacterisation of the dynamics of a growing dust particle cloud in a direct-current argon glow discharge. Journal Physics D: Applied Physics, 2016, 49, 045203.	2.8	16
14	Digital in-line holography for the characterization of two phase flows in astigmatic systems. , 2016, , .		0
15	Scattering of light by large bubbles: Coupling of geometrical and physical optics approximations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 8-18.	2.3	23
16	Organic photo sensors for multi-angle light scattering characterization of particle systems. Optics Express, 2015, 23, 27536.	3.4	7
17	Preface: Laser-light and Interactions with Particles (LIP), 2014. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 1-7.	2.3	11
18	Experimental validation of the vectorial complex ray model on the inter-caustics scattering of oblate droplets. Optics Express, 2015, 23, 15768.	3.4	41

#	Article	IF	Citations
19	On the size and morphological characterization of needle-shaped TiO2nanoparticles in suspension. , 2014, , .		1
20	Ray Theory of Wave for Particle Scattering. , 2014, , .		0
21	Sizing highly-ordered buckyball-shaped aggregates of colloidal nanoparticles by light extinction spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 160-168.	2.3	29
22	Physical-optics approximation of near-critical-angle scattering by spheroidal bubbles. Optics Letters, 2012, 37, 4780.	3.3	13
23	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
24	Algorithms and methods for analysis of the optical structure factor of fractal aggregates. Metrology and Measurement Systems, 2012, 19, 459-470.	1.4	33
25	Comparison of methods to derive morphological parameters of multi-fractal samples of particle aggregates from TEM images. Journal of Aerosol Science, 2012, 47, 12-26.	3.8	86
26	Near-critical-angle scattering for the characterization of clouds of bubbles: particular effects. Applied Optics, 2011, 50, 5759.	2.1	31
27	Vectorial complex ray model and application to two-dimensional scattering of plane wave by a spheroidal particle. Optics Letters, 2011, 36, 370.	3.3	54
28	On the Optical Characterisation of Nanoparticle and their Aggregates in Plasma Systems. Contributions To Plasma Physics, 2011, 51, 228-236.	1.1	30
29	Inverse near-critical-angle scattering as a tool to characterize bubble clouds. Proceedings of SPIE, 2010, , .	0.8	2
30	Optical characterization of bubbly flows with a near-critical-angle scattering technique. Experiments in Fluids, 2009, 47, 721-732.	2.4	38
31	Dust in ITER: Diagnostics and removal techniques. Journal of Nuclear Materials, 2009, 386-388, 882-883.	2.7	14
32	Development of an in situ ITER dust diagnostic based on extinction spectrometry: Dedicated light scattering models. Journal of Nuclear Materials, 2009, 390-391, 1093-1096.	2.7	21
33	Numerical study of glare spot phase Doppler anemometry. Optics Communications, 2008, 281, 1375-1383.	2.1	5
34	Dust control in tokamak environment. Fusion Engineering and Design, 2008, 83, 1701-1705.	1.9	18
35	Diagnostics for Dust Monitoring in Tokamak Environment. AIP Conference Proceedings, 2008, , .	0.4	1
36	Glare Spot Phase Doppler Anemometry. AIP Conference Proceedings, 2007, , .	0.4	0

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37	Critical angle refractometry and sizing of bubble clouds. Optics Letters, 2007, 32, 2070.	3.3	27
38	High resolution monitoring of an unsteady glass fibre drawing process. Experiments in Fluids, 2007, 42, 601-610.	2.4	7
39	Experimental estimation of particle flow fluctuations in dense unsteady two-phase flow using phase Doppler anemometry. International Journal of Multiphase Flow, 2007, 33, 849-872.	3.4	7
40	Three interfering beams in laser Doppler velocimetry for particle position and microflow velocity profile measurements. Applied Optics, 2006, 45, 3317.	2.1	14
41	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
42	Numerical Analysis of the Sinuous Instability of a Viscous Capillary Jet Flowing Down an Immiscible Nonviscous Fluid. , 2006, , 677-684.		2
43	Optical measurement of the drawing tension of small glass fibres. Measurement Science and Technology, 2004, 15, 1279-1284.	2.6	3
44	High-resolution laser diffractometry for the on-line sizing of small transparent fibres. Optics Communications, 2004, 234, 183-191.	2.1	25
45	Interferometric Sizing of Single-Axis Birefringent Glass Fibers. Particle and Particle Systems Characterization, 2003, 20, 171-182.	2.3	8
46	Improved particle image velocimetry measurements in gasÂparticle flows with a dense wall layer. Measurement Science and Technology, 2003, 14, N9-N12.	2.6	5
47	Superimposed noninterfering probes to extend the capabilities of phase Doppler anemometry. Applied Optics, 2002, 41, 3590.	2.1	8
48	Numerical Analysis of the Nonlinear Instability of One-Dimensional Compound Capillary Jet. Lecture Notes in Computer Science, 2001, , 692-701.	1.3	1
49	Critical Angle Refractometry for Simultaneous Measurement of Particles in Flow: Size and Relative Refractive Index. Particle and Particle Systems Characterization, 1999, 16, 119-127.	2.3	12
50	Size, velocity, and concentration in suspension measurements of spherical droplets and cylindrical jets. Applied Optics, 1999, 38, 4681.	2.1	21
51	On the Optical Diagnosis and Sizing of Spherical Coated and Multilayered Particles with phase-Doppler anemometry. Particle and Particle Systems Characterization, 1996, 13, 104-111.	2.3	25
52	Phase-Doppler Anemometry with the Dual Burst Technique for measurement of refractive index and absorption coefficient simultaneously with size and velocity. Particle and Particle Systems Characterization, 1996, 13, 112-124.	2.3	48
53	Dual-Mode Phase-Doppler Anemometer. Particle and Particle Systems Characterization, 1996, 13, 165-170.	2.3	52
54	Electromagnetic scattering from a multilayered sphere located in an arbitrary beam. Applied Optics, 1995, 34, 7113.	2.1	146

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55	New Generation of Phase-Doppler Instruments for particle velocity, size and concentration measurements. Particle and Particle Systems Characterization, 1994, 11, 43-54.	2.3	24