

Marcella Dell'Aglio

List of Publications by Year in descending order

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69
papers

4,685
citations

87723

38
h-index

102304

66
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69
all docs

69
docs citations

69
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of spherical gold nanoparticles size on nanoparticle enhanced Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 179, 106105.	1.5	27
2	Comparison between laser induced plasmas in gas and in liquid. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	12
3	Sensing nanoparticle-protein corona using nanoparticle enhanced Laser Induced Breakdown Spectroscopy signal enhancement. <i>Talanta</i> , 2021, 235, 122741.	2.9	11
4	Gold nanoparticles obtained by ns-pulsed laser ablation in liquids (ns-PLAL) are arranged in the form of fractal clusters. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	9
5	Optical Diagnostics during Pulsed Laser Ablation in Liquid (PLAL) for the Production of Metallic Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10344.	1.3	3
6	Nanoparticle enhanced laser ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 163, 105731.	1.5	8
7	Nanoparticles Engineering by Pulsed Laser Ablation in Liquids: Concepts and Applications. <i>Nanomaterials</i> , 2020, 10, 2317.	1.9	140
8	Effect of the Surface Chemical Composition and of Added Metal Cation Concentration on the Stability of Metal Nanoparticles Synthesized by Pulsed Laser Ablation in Water. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4169.	1.3	14
9	Plasma charging effect on the nanoparticles releasing from the cavitation bubble to the solution during nanosecond Pulsed Laser Ablation in Liquid. <i>Applied Surface Science</i> , 2020, 515, 146031.	3.1	28
10	Nanoparticle enhanced laser ablation and consequent effects on laser induced plasma optical emission. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 166, 105794.	1.5	23
11	“Naked” gold nanoparticles as colorimetric reporters for biogenic amine detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 600, 124903.	2.3	26
12	Investigation on the material in the plasma phase by high temporally and spectrally resolved emission imaging during pulsed laser ablation in liquid (PLAL) for NPs production and consequent considerations on NPs formation. <i>Plasma Sources Science and Technology</i> , 2019, 28, 085017.	1.3	22
13	A Quantum Chemistry Approach Based on the Analogy with π -System in Polymers for a Rapid Estimation of the Resonance Wavelength of Nanoparticle Systems. <i>Nanomaterials</i> , 2019, 9, 929.	1.9	10
14	Application of gold nanoparticles embedded in the amyloids fibrils as enhancers in the laser induced breakdown spectroscopy for the metal quantification in microdroplets. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 115-122.	1.5	29
15	Nanoparticle-Enhanced Laser Induced Breakdown Spectroscopy for the noninvasive analysis of transparent samples and gemstones. <i>Talanta</i> , 2018, 182, 253-258.	2.9	54
16	Stand-off laser induced breakdown spectroscopy on meteorites: calibration-free approach. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 147, 87-92.	1.5	27
17	Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy (NELIBS), a first review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 105-112.	1.5	143
18	On the growth mechanism of nanoparticles in plasma during pulsed laser ablation in liquids. <i>Plasma Sources Science and Technology</i> , 2017, 26, 045002.	1.3	31

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19	High productive and continuous nanoparticle fabrication by laser ablation of a wire-target in a liquid jet. <i>Applied Surface Science</i> , 2017, 403, 487-499.	3.1	48
20	Study of the Effect of Water Pressure on Plasma and Cavitation Bubble Induced by Pulsed Laser Ablation in Liquid of Silver and Missed Variations of Observable Nanoparticle Features. <i>ChemPhysChem</i> , 2017, 18, 1165-1174.	1.0	26
21	Fundamental Study and Analytical Applications of Nanoparticle-Enhanced Laser-Induced Breakdown Spectroscopy (NELIBS) of Metals, Semiconductors and Insulators. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017, , 505-506.	0.2	0
22	Double pulse laser induced breakdown spectroscopy of a solid in water: Effect of hydrostatic pressure on laser induced plasma, cavitation bubble and emission spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 133, 63-71.	1.5	28
23	Pulsed laser ablation of wire-shaped target in a thin water jet: effects of plasma features and bubble dynamics on the PLAL process. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 185204.	1.3	22
24	On the stability of gold nanoparticles synthesized by laser ablation in liquids. <i>Journal of Colloid and Interface Science</i> , 2017, 489, 47-56.	5.0	45
25	Perspective on the use of nanoparticles to improve LIBS analytical performance: nanoparticle enhanced laser induced breakdown spectroscopy (NELIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1566-1573.	1.6	82
26	Nanoparticle Enhanced Laser-Induced Breakdown Spectroscopy for Microdrop Analysis at subppm Level. <i>Analytical Chemistry</i> , 2016, 88, 5251-5257.	3.2	109
27	Reply to Comment on "Nanoparticle Enhanced Laser-Induced Breakdown Spectroscopy for Microdrop Analysis at subppm Level". <i>Analytical Chemistry</i> , 2016, 88, 9871-9872.	3.2	2
28	Silver and gold nanoparticles produced by pulsed laser ablation in liquid to investigate their interaction with Ubiquitin. <i>Applied Surface Science</i> , 2016, 374, 297-304.	3.1	40
29	Mechanisms and processes of pulsed laser ablation in liquids during nanoparticle production. <i>Applied Surface Science</i> , 2015, 348, 4-9.	3.1	201
30	Amyloid Transition of Ubiquitin on Silver Nanoparticles Produced by Pulsed Laser Ablation in Liquid as a Function of Stabilizer and Single-Point Mutations. <i>Chemistry - A European Journal</i> , 2014, 20, 10745-10751.	1.7	24
31	Elemental Composition Analysis of Plants and Composts Used for Soil Remediation by Laser-Induced Breakdown Spectroscopy. <i>Clean - Soil, Air, Water</i> , 2014, 42, 791-798.	0.7	19
32	Multi-methodological investigation of kunzite, hiddenite, alexandrite, elbaite and topaz, based on laser-induced breakdown spectroscopy and conventional analytical techniques for supporting mineralogical characterization. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 127-140.	0.3	34
33	Laser Induced Breakdown Spectroscopy of meteorites as a probe of the early solar system. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 68-75.	1.5	21
34	Plasma processes and emission spectra in laser induced plasmas: A point of view. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 180-188.	1.5	42
35	Laser-induced breakdown spectroscopy of archaeological findings with calibration-free inverse method: Comparison with classical laser-induced breakdown spectroscopy and conventional techniques. <i>Analytica Chimica Acta</i> , 2014, 813, 15-24.	2.6	59
36	Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy: Effect of nanoparticles deposited on sample surface on laser ablation and plasma emission. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 19-27.	1.5	111

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37	Nanoparticle-Enhanced Laser-Induced Breakdown Spectroscopy of Metallic Samples. <i>Analytical Chemistry</i> , 2013, 85, 10180-10187.	3.2	175
38	Collinear double pulse laser ablation in water for the production of silver nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20868.	1.3	48
39	Cavitation dynamics of laser ablation of bulk and wire-shaped metals in water during nanoparticles production. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3083-3092.	1.3	155
40	Laser-induced plasma analysis of copper alloys based on Local Thermodynamic Equilibrium: An alternative approach to plasma temperature determination and archeometric applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 38-45.	1.5	52
41	Effects of the background environment on formation, evolution and emission spectra of laser-induced plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 78, 1-19.	1.5	102
42	A Laser Induced Breakdown Spectroscopy application based on Local Thermodynamic Equilibrium assumption for the elemental analysis of alexandrite gemstone and copper-based alloys. <i>Chemical Physics</i> , 2012, 398, 233-238.	0.9	47
43	Monitoring of Cr, Cu, Pb, V and Zn in polluted soils by laser induced breakdown spectroscopy (LIBS). <i>Journal of Environmental Monitoring</i> , 2011, 13, 1422.	2.1	71
44	Laser Ablation of Graphite in Water in a Range of Pressure from 1 to 146 atm Using Single and Double Pulse Techniques for the Production of Carbon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5123-5130.	1.5	103
45	Carbon-Based Nanostructures Obtained in Water by Ultrashort Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5160-5164.	1.5	33
46	Local Thermodynamic Equilibrium in Laser-Induced Breakdown Spectroscopy: Beyond the McWhirter criterion. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 86-95.	1.5	514
47	The role of continuum radiation in laser induced plasma spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 385-394.	1.5	92
48	Laser Induced Breakdown Spectroscopy for Elemental Analysis in Environmental, Cultural Heritage and Space Applications: A Review of Methods and Results. <i>Sensors</i> , 2010, 10, 7434-7468.	2.1	235
49	Laser Induced Breakdown Spectroscopy applications to meteorites: Chemical analysis and composition profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7329-7339.	1.6	62
50	Heavy metal concentrations in soils as determined by laser-induced breakdown spectroscopy (LIBS), with special emphasis on chromium. <i>Environmental Research</i> , 2009, 109, 413-420.	3.7	184
51	Spatial distribution of hydrogen and other emitters in aluminum laser-induced plasma in air and consequences on spatially integrated Laser-Induced Breakdown Spectroscopy measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 980-987.	1.5	69
52	Laser Induced Breakdown Spectroscopy methodology for the analysis of copper-based-alloys used in ancient artworks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 585-590.	1.5	62
53	Experimental and theoretical comparison of single-pulse and double-pulse laser induced breakdown spectroscopy on metallic samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 805-816.	1.5	144
54	Femtosecond/Nanosecond dual-pulse orthogonal geometry plasma plume reheating for compositional analysis of ancient copper-based-alloy artworks. <i>Journal of Physics: Conference Series</i> , 2007, 59, 585-590.	0.3	3

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55	ns- and fs-LIBS of copper-based-alloys: A different approach. Applied Surface Science, 2007, 253, 7677-7681.	3.1	48
56	Optical emission spectroscopy investigation of an ultra-short laser induced titanium plasma reheated by a ns laser pulse. Applied Surface Science, 2007, 253, 7792-7797.	3.1	20
57	Spectroscopic investigation of laser-water interaction beyond the breakdown threshold energy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 87-93.	1.5	12
58	From single pulse to double pulse ns-Laser Induced Breakdown Spectroscopy under water: Elemental analysis of aqueous solutions and submerged solid samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 721-738.	1.5	193
59	Laser induced breakdown spectroscopy on meteorites. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1606-1611.	1.5	121
60	Elemental chemical analysis of submerged targets by double-pulse laser-induced breakdown spectroscopy. Analytical and Bioanalytical Chemistry, 2006, 385, 303-311.	1.9	68
61	Double-pulse LIBS in bulk water and on submerged bronze samples. Applied Surface Science, 2005, 247, 157-162.	3.1	100
62	Early stage emission spectroscopy study of metallic titanium plasma induced in air by femtosecond- and nanosecond-laser pulses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 935-947.	1.5	60
63	Experimental investigation and modelling of double pulse laser induced plasma spectroscopy under water. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 975-985.	1.5	92
64	Analytical function for lidar geometrical compression form-factor calculations. Applied Optics, 2005, 44, 1323.	2.1	64
65	Double pulse laser produced plasma on metallic target in seawater: basic aspects and analytical approach. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1431-1438.	1.5	114
66	Single Pulse-Laser Induced Breakdown Spectroscopy in aqueous solution. Applied Physics A: Materials Science and Processing, 2004, 79, 1035-1038.	1.1	102
67	Lidar system for depolarization ratio measurements: development and preliminary results. , 2003, 5059, 212.		1
68	Development of a Ti:Sapphire DIAL system for pollutant monitoring and meteorological applications. Optics and Lasers in Engineering, 2002, 37, 233-244.	2.0	6
69	<title>First results obtained with a lidar fluorescence sensor system</title>. , 2000, , .		3