

Maria Luisa Cordero

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

581
citations

840776

11
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of granular jets observed by high-speed X-ray radiography. <i>Nature Physics</i> , 2005, 1, 164-167.	16.7	115
2	Laser-Induced Force on a Microfluidic Drop: Origin and Magnitude. <i>Langmuir</i> , 2009, 25, 5127-5134.	3.5	81
3	Thermocapillary manipulation of droplets using holographic beam shaping: Microfluidic pin ball. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	75
4	Quantitative analysis of the dripping and jetting regimes in co-flowing capillary jets. <i>Physics of Fluids</i> , 2011, 23, .	4.0	58
5	Time-resolved temperature rise in a thin liquid film due to laser absorption. <i>Physical Review E</i> , 2009, 79, 011201.	2.1	51
6	Magnetotactic bacteria in a droplet self-assemble into a rotary motor. <i>Nature Communications</i> , 2019, 10, 5082.	12.8	41
7	Mixing via thermocapillary generation of flow patterns inside a microfluidic drop. <i>New Journal of Physics</i> , 2009, 11, 075033.	2.9	37
8	Bacteria driving droplets. <i>Soft Matter</i> , 2020, 16, 1359-1365.	2.7	25
9	Noble microfluidic system for bioceramic nanoparticles engineering. <i>Materials Science and Engineering C</i> , 2019, 102, 221-227.	7.3	19
10	Effects of preparation on catalytic, magnetic and hybrid micromotors on their functional features and application in gastric cancer biomarker detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127843.	7.8	19
11	Effect of confinement on the deformation of microfluidic drops. <i>Physical Review E</i> , 2014, 89, 033004.	2.1	18
12	Classical homogenization to analyse the dispersion relations of spoof plasmons with geometrical and compositional effects. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150472.	2.1	11
13	Peptide functionalized magneto-plasmonic nanoparticles obtained by microfluidics for inhibition of β^2 -amyloid aggregation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5091-5099.	5.8	11
14	Resonant frequency shifts induced by a large spherical object in an air-filled acoustic cavity. <i>Journal of the Acoustical Society of America</i> , 2007, 121, EL244.	1.1	6
15	Study of the interaction of folic acid-modified gold nanorods and fibrinogen through microfluidics: implications for protein adsorption, incorporation and viability of cancer cells. <i>Nanoscale</i> , 2021, 13, 17807-17821.	5.6	4
16	Measurement of the dispersion relation of a convectively unstable capillary jet under confinement. <i>Physics of Fluids</i> , 2015, 27, .	4.0	3
17	Perfect Brewster transmission through ultrathin perforated films. <i>Wave Motion</i> , 2020, 93, 102485.	2.0	3
18	Local details versus effective medium approximation: A study of diffusion in microfluidic random networks made from Voronoi tessellations. <i>Physical Review E</i> , 2020, 101, 023110.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Tuning the wavelength of spoof plasmons by adjusting the impedance contrast in an array of penetrable inclusions. Applied Physics Letters, 2015, 107, 084104.	3.3	2
20	Optical blocking of microfluidic droplets through laser-induced thermocapillarity. , 2009, , .		0
21	Generation and study of acoustic "spoof plasmons" in a metamaterial formed by an array of sound-soft inclusions. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0