

Raul Urteaga

List of Publications by Year in descending order

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44
papers

691
citations

567281

15
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580821

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44
docs citations

44
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of capillary-driven flows for paper-based microfluidics. <i>Lab on A Chip</i> , 2015, 15, 2173-2180.	6.0	137
2	Capillary Filling in Nanostructured Porous Silicon. <i>Langmuir</i> , 2011, 27, 2067-2072.	3.5	50
3	High-Frequency Digital Lock-In Amplifier Using Random Sampling. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008, 57, 616-621.	4.7	48
4	Optimization of porous silicon multilayer as antireflection coatings for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3069-3073.	6.2	37
5	Precise capillary flow for paper-based viscometry. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	35
6	Inverse Problem of Capillary Filling. <i>Physical Review Letters</i> , 2014, 112, 134502.	7.8	32
7	Innovative design for optical porous silicon gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 189-193.	7.8	31
8	Optofluidic Characterization of Nanoporous Membranes. <i>Langmuir</i> , 2013, 29, 2784-2789.	3.5	26
9	Asymmetric capillary filling of non-Newtonian power law fluids. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 1079-1084.	2.2	22
10	Transverse solute dispersion in microfluidic paper-based analytical devices (μ PADs). <i>Analyst</i> , The, 2018, 143, 2259-2266.	3.5	21
11	Trapping an Intensely Bright, Stable Sonoluminescing Bubble. <i>Physical Review Letters</i> , 2008, 100, 074302.	7.8	18
12	Negative differential resistance in porous silicon devices at room temperature. <i>Superlattices and Microstructures</i> , 2015, 79, 45-53.	3.1	17
13	Interferometric Technique To Determine the Dynamics of Polymeric Fluids under Strong Confinement. <i>Macromolecules</i> , 2018, 51, 8721-8728.	4.8	17
14	Numerical and experimental study of dissociation in an air-water single-bubble sonoluminescence system. <i>Physical Review E</i> , 2005, 72, 046305.	2.1	16
15	Positional stability as the light emission limit in sonoluminescence with sulfuric acid. <i>Physical Review E</i> , 2007, 76, 056317.	2.1	15
16	Design keys for paper-based concentration gradient generators. <i>Journal of Chromatography A</i> , 2018, 1561, 83-91.	3.7	14
17	Precursor Film Spreading during Liquid Imbibition in Nanoporous Photonic Crystals. <i>Physical Review Letters</i> , 2020, 125, 234502.	7.8	13
18	Nondestructive high-throughput screening of nanopore geometry in porous membranes by imbibition. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	11

#	ARTICLE	IF	CITATIONS
19	Spontaneous water adsorption-desorption oscillations in mesoporous thin films. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 407-413.	9.4	11
20	Transmittance correlation of porous silicon multilayers used as a chemical sensor platform. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 164-170.	7.8	10
21	Implementation of a high-frequency digital lock-in amplifier. , 0, , .		9
22	Real-time study of protein adsorption kinetics in porous silicon. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 354-359.	5.0	9
23	Optical performance of hybrid porous silicon-porous alumina multilayers. <i>Journal of Applied Physics</i> , 2018, 123, 183101.	2.5	9
24	Software PLL Based on Random Sampling. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 2621-2629.	4.7	8
25	Experimental study of transient paths to the extinction in sonoluminescence. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 1490-1496.	1.1	7
26	Dynamics of sonoluminescing bubbles within a liquid hammer device. <i>Physical Review E</i> , 2009, 79, 016306.	2.1	7
27	Analytical study of the acoustic field in a spherical resonator for single bubble sonoluminescence. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 186-197.	1.1	7
28	Structural properties of porous silicon/SnO ₂ :F heterostructures. <i>Thin Solid Films</i> , 2012, 520, 4254-4258.	1.8	7
29	A novel water hammer device designed to produce controlled bubble collapses. <i>Experimental Thermal and Fluid Science</i> , 2018, 92, 46-55.	2.7	7
30	Fano resonance in heavily doped porous silicon. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1405-1407.	2.5	5
31	Current-voltage characteristics in macroporous silicon/SiO _x /SnO ₂ :F heterojunctions. <i>Nanoscale Research Letters</i> , 2012, 7, 419.	5.7	5
32	Optical coherence tomography measurement of capillary filling in porous silicon. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	5
33	Enhanced photoconductivity and fine response tuning in nanostructured porous silicon microcavities. <i>Journal of Physics: Conference Series</i> , 2009, 167, 012005.	0.4	4
34	Precise electroosmotic flow measurements on paper substrates. <i>Electrophoresis</i> , 2021, 42, 975-982.	2.4	4
35	Nanoporous Anodic Alumina for Optofluidic Applications. <i>Springer Series in Materials Science</i> , 2015, , 249-269.	0.6	4
36	Validity of Capillary Imbibition Models in Paper-Based Microfluidic Applications. <i>Transport in Porous Media</i> , 2022, 141, 359-378.	2.6	4

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37	Design and optimization of an opto-acoustic sensor based on porous silicon phoxonic crystals. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112915.	4.1	3
38	Switchable Electric Field Induced Diode Effect in Nanostructured Porous Silicon. <i>IEEE Electron Device Letters</i> , 2013, 34, 590-592.	3.9	2
39	Time-temperature indicator based on the variation of the optical response of photonic crystals upon polymer infiltration. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113571.	4.1	2
40	Efficient approach for optical and morphological characterization of hybrid perovskite films based on reflectance and transmittance measurements. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 115303.	2.8	1
41	Digital holographic microscopy implementation for capillary filling measurements in nanoporous materials. <i>Applied Optics</i> , 2022, 61, 2506.	1.8	1
42	Dynamics of the tuning process between singers. <i>European Physical Journal B</i> , 2004, 41, 569-573.	1.5	0
43	Optical Losses in Hybrid Microcavity Based in Porous Semiconductors and its Application as Optic Chemical Sensor. <i>Journal of Nano Research</i> , 2019, 56, 158-167.	0.8	0
44	Normal incidence birefringence in nanoporous alumina. <i>Optical Materials</i> , 2021, 122, 111652.	3.6	0