Raul Urteaga

List of Publications by Year
in descending order

44 papers	691 citations	567281 15 h-index	580821 25 g-index
44 all docs	44 docs citations	44 times ranked	716 citing authors

#	Article	IF	Citations
1	Efficient approach for optical and morphological characterization of hybrid perovskite films based on reflectance and transmittance measurements. Journal Physics D: Applied Physics, 2022, 55, 115303.	2.8	1
2	Validity of Capillary Imbibition Models in Paper-Based Microfluidic Applications. Transport in Porous Media, 2022, 141, 359-378.	2.6	4
3	Digital holographic microscopy implementation for capillary filling measurements in nanoporous materials. Applied Optics, 2022, 61, 2506.	1.8	1
4	Time-temperature indicator based on the variation of the optical response of photonic crystals upon polymer infiltration. Sensors and Actuators A: Physical, 2022, 341, 113571.	4.1	2
5	Precise electroosmotic flow measurements on paper substrates. Electrophoresis, 2021, 42, 975-982.	2.4	4
6	Design and optimization of an opto-acoustic sensor based on porous silicon phoxonic crystals. Sensors and Actuators A: Physical, 2021, 331, 112915.	4.1	3
7	Normal incidence birefringence in nanoporous alumina. Optical Materials, 2021, 122, 111652.	3.6	0
8	Optical coherence tomography measurement of capillary filling in porous silicon. Journal of Applied Physics, 2020, 128, .	2.5	5
9	Precursor Film Spreading during Liquid Imbibition in Nanoporous Photonic Crystals. Physical Review Letters, 2020, 125, 234502.	7.8	13
10	Nondestructive high-throughput screening of nanopore geometry in porous membranes by imbibition. Applied Physics Letters, 2019, 115, .	3.3	11
11	Optical Losses in Hybrid Microcavity Based in Porous Semiconductors and its Application as Optic Chemical Sensor. Journal of Nano Research, 2019, 56, 158-167.	0.8	0
12	Spontaneous water adsorption-desorption oscillations in mesoporous thin films. Journal of Colloid and Interface Science, 2019, 537, 407-413.	9.4	11
13	Transverse solute dispersion in microfluidic paper-based analytical devices (Î¼PADs). Analyst, The, 2018, 143, 2259-2266.	3.5	21
14	A novel water hammer device designed to produce controlled bubble collapses. Experimental Thermal and Fluid Science, 2018, 92, 46-55.	2.7	7
15	Interferometric Technique To Determine the Dynamics of Polymeric Fluids under Strong Confinement. Macromolecules, 2018, 51, 8721-8728.	4.8	17
16	Design keys for paper-based concentration gradient generators. Journal of Chromatography A, 2018, 1561, 83-91.	3.7	14
17	Optical performance of hybrid porous siliconâ€“porous alumina multilayers. Journal of Applied Physics, 2018, 123, 183101.	2.5	9
18	Precise capillary flow for paper-based viscometry. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	35

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19	Transmittance correlation of porous silicon multilayers used as a chemical sensor platform. Sensors and Actuators B: Chemical, 2015, 213, 164-170.	7.8	10
20	Rational design of capillary-driven flows for paper-based microfluidics. Lab on A Chip, 2015, 15, 2173-2180.	6.0	137
21	Negative differential resistance in porous silicon devices at room temperature. Superlattices and Microstructures, 2015, 79, 45-53.	3.1	17
22	Nanoporous Anodic Alumina for Optofluidic Applications. Springer Series in Materials Science, 2015, , 249-269.	0.6	4
23	Asymmetric capillary filling of non-Newtonian power law fluids. Microfluidics and Nanofluidics, 2014, 17, 1079-1084.	2.2	22
24	Inverse Problem of Capillary Filling. Physical Review Letters, 2014, 112, 134502.	7.8	32
25	Switchable Electric Field Induced Diode Effect in Nanostructured Porous Silicon. IEEE Electron Device Letters, 2013, 34, 590-592.	3.9	2
26	Real-time study of protein adsorption kinetics in porous silicon. Colloids and Surfaces B: Biointerfaces, 2013, 111, 354-359.	5.0	9
27	Optofluidic Characterization of Nanoporous Membranes. Langmuir, 2013, 29, 2784-2789.	3.5	26
28	Current-voltage characteristics in macroporous silicon/SiOx/SnO2:F heterojunctions. Nanoscale Research Letters, 2012, 7, 419.	5.7	5
29	Structural properties of porous silicon/SnO2:F heterostructures. Thin Solid Films, 2012, 520, 4254-4258.	1.8	7
30	Capillary Filling in Nanostructured Porous Silicon. Langmuir, 2011, 27, 2067-2072.	3.5	50
31	Optimization of porous silicon multilayer as antireflection coatings for solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3069-3073.	6.2	37
32	Fano resonance in heavily doped porous silicon. Journal of Raman Spectroscopy, 2011, 42, 1405-1407.	2.5	5
33	Software PLL Based on Random Sampling. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2621-2629.	4.7	8
34	Innovative design for optical porous silicon gas sensor. Sensors and Actuators B: Chemical, 2010, 149, 189-193.	7.8	31
35	Analytical study of the acoustic field in a spherical resonator for single bubble sonoluminescence. Journal of the Acoustical Society of America, 2010, 127, 186-197.	1.1	7
36	Dynamics of sonoluminescing bubbles within a liquid hammer device. Physical Review E, 2009, 79, 016306.	2.1	7

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37	Enhanced photoconductivity and fine response tuning in nanostructured porous silicon microcavities. Journal of Physics: Conference Series, 2009, 167, 012005.	0.4	4
38	High-Frequency Digital Lock-In Amplifier Using Random Sampling. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 616-621.	4.7	48
39	Trapping an Intensely Bright, Stable Sonoluminescing Bubble. Physical Review Letters, 2008, 100, 074302.	7.8	18
40	Experimental study of transient paths to the extinction in sonoluminescence. Journal of the Acoustical Society of America, 2008, 124, 1490-1496.	1.1	7
41	Positional stability as the light emission limit in sonoluminescence with sulfuric acid. Physical Review E, 2007, 76, 056317.	2.1	15
42	Numerical and experimental study of dissociation in an air-water single-bubble sonoluminescence system. Physical Review E, 2005, 72, 046305.	2.1	16
43	Dynamics of the tuning process between singers. European Physical Journal B, 2004, 41, 569-573.	1.5	0
44	Implementation of a high-frequency digital lock-in amplifier. , 0, , .		9