

Antoine Riaud

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

894
citations

430874

18
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Folding a focalized acoustical vortex on a flat holographic transducer: Miniaturized selective acoustical tweezers. <i>Science Advances</i> , 2019, 5, eaav1967.	10.3	135
2	Selective Manipulation of Microscopic Particles with Precursor Swirling Rayleigh Waves. <i>Physical Review Applied</i> , 2017, 7, .	3.8	76
3	Anisotropic Swirling Surface Acoustic Waves from Inverse Filtering for On-Chip Generation of Acoustic Vortices. <i>Physical Review Applied</i> , 2015, 4, .	3.8	61
4	On the influence of viscosity and caustics on acoustic streaming in sessile droplets: an experimental and a numerical study with a cost-effective method. <i>Journal of Fluid Mechanics</i> , 2017, 821, 384-420.	3.4	51
5	Experimental study of liquid/liquid second-dispersion process in constrictive microchannels. <i>Chemical Engineering Journal</i> , 2014, 254, 443-451.	12.7	49
6	Simulation of liquid mixing inside micro-droplets by a lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2015, 131, 118-128.	3.8	47
7	Pressure drop-based determination of dynamic interfacial tension of droplet generation process in T-junction microchannel. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 503-512.	2.2	46
8	Wafer-scale functional circuits based on two dimensional semiconductors with fabrication optimized by machine learning. <i>Nature Communications</i> , 2021, 12, 5953.	12.8	42
9	Lattice-Boltzmann method for the simulation of multiphase mass transfer and reaction of dilute species. <i>Physical Review E</i> , 2014, 89, 053308.	2.1	33
10	Numerical Study of Surfactant Dynamics during Emulsification in a T-Junction Microchannel. <i>Langmuir</i> , 2018, 34, 4980-4990.	3.5	33
11	Beckmann Rearrangement of Cyclohexanone Oxime to μ -Caprolactam in a Modified Catalytic System of Trifluoroacetic Acid. <i>Catalysis Letters</i> , 2014, 144, 151-157.	2.6	26
12	Cyclones and attractive streaming generated by acoustical vortices. <i>Physical Review E</i> , 2014, 90, 013008.	2.1	25
13	SAW Synthesis With IDTs Array and the Inverse Filter: Toward a Versatile SAW Toolbox for Microfluidics and Biological Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1601-1607.	3.0	24
14	Beyond the on/off chip trade-off: A reversibly sealed microfluidic platform for 3D tumor microtissue analysis. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 393-401.	7.8	22
15	Taming the degeneration of Bessel beams at an anisotropic-isotropic interface: Toward three-dimensional control of confined vortical waves. <i>Physical Review E</i> , 2015, 92, 063201.	2.1	21
16	MoS ₂ dual-gate transistors with electrostatically doped contacts. <i>Nano Research</i> , 2019, 12, 2515-2519.	10.4	21
17	Acoustic Radiation Force on Small Spheres Due to Transient Acoustic Fields. <i>Physical Review Applied</i> , 2021, 15, .	3.8	21
18	Development of Broadband High-Frequency Piezoelectric Micromachined Ultrasonic Transducer Array. <i>Sensors</i> , 2021, 21, 1823.	3.8	20

#	ARTICLE	IF	CITATIONS
19	Passive Transistor Logic Circuits Based on Wafer-Scale 2D Semiconductors. <i>Advanced Materials</i> , 2022, 34, .	21.0	20
20	A combined Lattice-Boltzmann method for the simulation of two-phase flows in microchannel. <i>Chemical Engineering Science</i> , 2013, 99, 238-249.	3.8	17
21	A facile pressure drop measurement system and its applications to gas-liquid microflows. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 715-724.	2.2	14
22	On-demand contact line pinning during droplet evaporation. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127983.	7.8	14
23	Tunable and Reversible Gelatin-Based Bonding for Microfluidic Cell Culture. <i>Advanced Engineering Materials</i> , 2019, 21, 1900145.	3.5	12
24	Mechanical Characterization of Cells and Microspheres Sorted by Acoustophoresis with In-Line Resistive Pulse Sensing. <i>Physical Review Applied</i> , 2020, 13, .	3.8	11
25	An asymmetric electrode for directional droplet motion on digital microfluidic platforms. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128763.	7.8	9
26	Smearing Observation of Picoliter Droplets Pinning on Bio-Inspired Negative Lotus Leaf Replicas. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 102-106.	2.0	8
27	Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization. <i>Micromachines</i> , 2019, 10, 265.	2.9	7
28	Charge transport and quantum confinement in MoS ₂ dual-gated transistors. <i>Journal of Semiconductors</i> , 2020, 41, 072904.	3.7	7
29	Observation of contact angle hysteresis due to inhomogeneous electric fields. <i>Communications Physics</i> , 2021, 4, .	5.3	7
30	Two-dimensional manipulation of droplets on a single-sided continuous optoelectrowetting digital microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132231.	7.8	5
31	2D large-scale EWOD devices with honeycomb electrodes for multiplexed multidirectional driving of micro-droplets. <i>AIP Advances</i> , 2020, 10, 055227.	1.3	3
32	Anti-lotus leaf effect: smearing millions of picoliter droplets on bio-inspired artificial lotus leaf. , 2019, , .		2
33	On the Dynamic Stability of Gold Electrodes Exposed to Alternative Voltages in Microfluidic Systems. <i>Journal of the Electrochemical Society</i> , 2022, 169, 031504.	2.9	2
34	Contactless generation and trapping of hydrodynamic knots in sessile droplets by acoustic screw dislocations. <i>Physics of Fluids</i> , 2022, 34, .	4.0	2
35	Optimization of the synthesis conditions of gold nanoparticle-polydimethylsiloxane composites for ultrasound generation. <i>Materials Advances</i> , 2022, 3, 2850-2857.	5.4	1
36	Anisotropic spreading of droplets on striped electrodes. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	10.1063/5.0093025.1., 2022,, .		0
38	10.1063/5.0093025.3., 2022,, .		0
39	10.1063/5.0093025.4., 2022,, .		0
40	10.1063/5.0093025.2., 2022,, .		0