

Jason Riordon

List of Publications by Year in descending order

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42
papers

1,510
citations

331538

21
h-index

315616

38
g-index

43
all docs

43
docs citations

43
times ranked

1899
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Fluorescence from Arrays of Nanoholes in a Gold Film. <i>Journal of the American Chemical Society</i> , 2005, 127, 14936-14941.	6.6	203
2	Deep Learning with Microfluidics for Biotechnology. <i>Trends in Biotechnology</i> , 2019, 37, 310-324.	4.9	160
3	Microfluidics for sperm analysis and selection. <i>Nature Reviews Urology</i> , 2017, 14, 707-730.	1.9	144
4	Microfluidic and nanofluidic phase behaviour characterization for industrial CO ₂ , oil and gas. <i>Lab on A Chip</i> , 2017, 17, 2740-2759.	3.1	83
5	Deep learning for the classification of human sperm. <i>Computers in Biology and Medicine</i> , 2019, 111, 103342.	3.9	73
6	Fast Fluorescence-Based Microfluidic Method for Measuring Minimum Miscibility Pressure of CO ₂ in Crude Oils. <i>Analytical Chemistry</i> , 2015, 87, 3160-3164.	3.2	68
7	Capillary Condensation in 8 nm Deep Channels. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 497-503.	2.1	65
8	Surface Plasmon-Quantum Dot Coupling from Arrays of Nanoholes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8307-8313.	1.2	64
9	Deep learning-based selection of human sperm with high DNA integrity. <i>Communications Biology</i> , 2019, 2, 250.	2.0	64
10	Microfluidic Manufacturing of Polymeric Nanoparticles: Comparing Flow Control of Multiscale Structure in Single-Phase Staggered Herringbone and Two-Phase Reactors. <i>Langmuir</i> , 2016, 32, 12781-12789.	1.6	48
11	Exploring Anomalous Fluid Behavior at the Nanoscale: Direct Visualization and Quantification via Nanofluidic Devices. <i>Accounts of Chemical Research</i> , 2020, 53, 347-357.	7.6	43
12	Hollow core photonic crystal fiber as a reusable Raman biosensor. <i>Optics Express</i> , 2013, 21, 12340.	1.7	42
13	Machine learning for sperm selection. <i>Nature Reviews Urology</i> , 2021, 18, 387-403.	1.9	39
14	Microalgae on display: a microfluidic pixel-based irradiance assay for photosynthetic growth. <i>Lab on A Chip</i> , 2015, 15, 3116-3124.	3.1	36
15	Microfluidic Synthesis of Photoresponsive Spool-Like Block Copolymer Nanoparticles: Flow-Directed Formation and Light-Triggered Dissociation. <i>Chemistry of Materials</i> , 2015, 27, 8094-8104.	3.2	29
16	FertDish: microfluidic sperm selection-in-a-dish for intracytoplasmic sperm injection. <i>Lab on A Chip</i> , 2021, 21, 775-783.	3.1	29
17	When robotics met fluidics. <i>Lab on A Chip</i> , 2020, 20, 709-716.	3.1	27
18	Microfluidic cell volume sensor with tunable sensitivity. <i>Lab on A Chip</i> , 2012, 12, 3016.	3.1	25

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19	Direct Measurement of the Fluid Phase Diagram. <i>Analytical Chemistry</i> , 2016, 88, 6986-6989.	3.2	25
20	Hydrothermal disruption of algae cells for astaxanthin extraction. <i>Green Chemistry</i> , 2017, 19, 106-111.	4.6	25
21	Prediction of DNA Integrity from Morphological Parameters Using a Single Sperm DNA Fragmentation Index Assay. <i>Advanced Science</i> , 2019, 6, 1900712.	5.6	23
22	Self-assembled nanoparticle-stabilized photocatalytic reactors. <i>Nanoscale</i> , 2016, 8, 2107-2115.	2.8	22
23	A combined method for pore-scale optical and thermal characterization of SAGD. <i>Journal of Petroleum Science and Engineering</i> , 2016, 146, 866-873.	2.1	21
24	Two-dimensional planar swimming selects for high DNA integrity sperm. <i>Lab on A Chip</i> , 2019, 19, 2161-2167.	3.1	20
25	Selection of high-quality sperm with thousands of parallel channels. <i>Lab on A Chip</i> , 2021, 21, 2464-2475.	3.1	15
26	Quantifying the volume of single cells continuously using a microfluidic pressure-driven trap with media exchange. <i>Biomicrofluidics</i> , 2014, 8, 011101.	1.2	13
27	Breathable waveguides for combined light and CO2 delivery to microalgae. <i>Bioresource Technology</i> , 2016, 209, 391-396.	4.8	13
28	Using the fringing electric field in microfluidic volume sensors to enhance sensitivity and accuracy. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	12
29	The Full Pressure-Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13962-13967.	7.2	12
30	Using active microfluidic flow focusing to sort particles and cells based on high-resolution volume measurements. <i>Microelectronic Engineering</i> , 2014, 118, 35-40.	1.1	11
31	Accelerating Fluid Development on a Chip for Renewable Energy. <i>Energy & Fuels</i> , 2020, 34, 11219-11226.	2.5	10
32	Evaluation of a Microencapsulated Phase Change Slurry for Subsurface Energy Recovery. <i>Energy & Fuels</i> , 2021, 35, 10293-10302.	2.5	10
33	Periodic harvesting of microalgae from calcium alginate hydrogels for sustained high-density production. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2023-2031.	1.7	9
34	Deformation of microdroplets in crude oil for rapid screening of enhanced oil recovery additives. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 298-304.	2.1	9
35	Photoactive periodic media. <i>Applied Physics Letters</i> , 2009, 94, 111904.	1.5	6
36	The Full Pressure-Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. <i>Angewandte Chemie</i> , 2017, 129, 14150-14155.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Single-material multilayer with enhanced photoactivity. Applied Physics Letters, 2010, 97, 163104.	1.5	2
38	Hollow core photonic crystal fiber as a robust Raman biosensor. Proceedings of SPIE, 2013, , .	0.8	2
39	Local control of light polarization with low-temperature fiber optics. Optics Letters, 2007, 32, 1378.	1.7	1
40	Frontispiz: The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie, 2017, 129, .	1.6	1
41	BROADBAND PUMPâ€“PROBING INSIDE AN OPTICAL PARAMETRIC AMPLIFIER. Journal of Nonlinear Optical Physics and Materials, 2009, 18, 693-700.	1.1	0
42	Frontispiece: The Full Pressureâ€“Temperature Phase Envelope of a Mixture in 1000 Microfluidic Chambers. Angewandte Chemie - International Edition, 2017, 56, .	7.2	0