

Pierre Joseph

List of Publications by Year in descending order

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37
papers

2,077
citations

471509

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330143

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docs citations

39
times ranked

2334
citing authors

#	ARTICLE	IF	CITATIONS
1	Slippage of Water Past Superhydrophobic Carbon Nanotube Forests in Microchannels. <i>Physical Review Letters</i> , 2006, 97, 156104.	7.8	396
2	Achieving large slip with superhydrophobic surfaces: Scaling laws for generic geometries. <i>Physics of Fluids</i> , 2007, 19, .	4.0	394
3	Second-order slip laws in microchannels for helium and nitrogen. <i>Physics of Fluids</i> , 2003, 15, 2613-2621.	4.0	313
4	Direct measurement of the apparent slip length. <i>Physical Review E</i> , 2005, 71, 035303.	2.1	244
5	Osmotic Flow through Fully Permeable Nanochannels. <i>Physical Review Letters</i> , 2014, 112, 244501.	7.8	85
6	Rheology of complex fluids by particle image velocimetry in microchannels. <i>Applied Physics Letters</i> , 2006, 89, 024104.	3.3	78
7	Comparison of methods for the fabrication and the characterization of polymer self-assemblies: what are the important parameters?. <i>Soft Matter</i> , 2016, 12, 2166-2176.	2.7	75
8	Capillary Filling in Closed End Nanochannels. <i>Langmuir</i> , 2010, 26, 13251-13255.	3.5	69
9	Amplification of electro-osmotic flows by wall slippage: direct measurements on OTS-surfaces. <i>Faraday Discussions</i> , 2010, 146, 113.	3.2	41
10	DNA separation and enrichment using electro-hydrodynamic bidirectional flows in viscoelastic liquids. <i>Lab on A Chip</i> , 2016, 16, 1243-1253.	6.0	38
11	Roles of gas in capillary filling of nanoslits. <i>Soft Matter</i> , 2012, 8, 10738.	2.7	36
12	Simple Synthetic Molecular Hydrogels from Self-Assembling Alkylgalactonamides as Scaffold for 3D Neuronal Cell Growth. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17004-17017.	8.0	30
13	Hybrid vesicles from lipids and block copolymers: Phase behavior from the micro- to the nano-scale. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 168, 18-28.	5.0	28
14	Sodium chloride precipitation reaction coefficient from crystallization experiment in a microfluidic device. <i>Journal of Crystal Growth</i> , 2017, 463, 201-210.	1.5	26
15	Ion Transport and Precipitation Kinetics as Key Aspects of Stress Generation on Pore Walls Induced by Salt Crystallization. <i>Physical Review Letters</i> , 2018, 120, 034502.	7.8	24
16	Filter-less submicron hydrodynamic size sorting. <i>Lab on A Chip</i> , 2016, 16, 720-733.	6.0	21
17	Wet spinning and radial self-assembly of a carbohydrate low molecular weight gelator into well organized hydrogel filaments. <i>Nanoscale</i> , 2019, 11, 15043-15056.	5.6	21
18	Control of evaporation by geometry in capillary structures. From confined pillar arrays in a gap radial gradient to phyllotaxy-inspired geometry. <i>Scientific Reports</i> , 2017, 7, 15110.	3.3	18

#	ARTICLE	IF	CITATIONS
19	Capillary Filling in Nanochannels—Modeling, Fabrication, and Experiments. <i>Heat Transfer Engineering</i> , 2011, 32, 624-635.	1.9	17
20	Evaporation with the formation of chains of liquid bridges. <i>Journal of Fluid Mechanics</i> , 2018, 837, 703-728.	3.4	16
21	Pore cross-talk in colloidal filtration. <i>Scientific Reports</i> , 2018, 8, 12460.	3.3	14
22	µLAS: Sizing of expanded trinucleotide repeats with femtomolar sensitivity in less than 5 minutes. <i>Scientific Reports</i> , 2019, 9, 23.	3.3	13
23	3D printing of a biocompatible low molecular weight supramolecular hydrogel by dimethylsulfoxide water solvent exchange. <i>Additive Manufacturing</i> , 2020, 33, 101162.	3.0	11
24	Fabrication and Experimental Characterization of Nanochannels. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	10
25	Microfluidics for minute DNA sample analysis: open challenges for genetic testing of cell-free circulating DNA in blood plasma. <i>Micro and Nano Engineering</i> , 2018, 1, 25-32.	2.9	8
26	Microfluidic characterization of biomimetic membrane mechanics with an on-chip micropipette. <i>Micro and Nano Engineering</i> , 2020, 8, 100064.	2.9	8
27	Wet spinning of a library of carbohydrate low molecular weight gels. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 333-343.	9.4	8
28	Transport of nano-objects in narrow channels: influence of Brownian diffusion, confinement and particle nature. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 234001.	1.8	6
29	Hydrogen Silsesquioxane-Based Nanofluidics. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601155.	3.7	5
30	Microstructure of the near-wall layer of filtration-induced colloidal assembly. <i>Soft Matter</i> , 2020, 16, 9726-9737.	2.7	5
31	Quasi-static drainage in a network of nanoslits of non-uniform depth designed by grayscale laser lithography. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	4
32	3-D process modelling of ancient storm-dominated deposits by an event-based approach: Application to Pleistocene-to-modern Gulf of Lions deposits. <i>Marine Geology</i> , 2013, 335, 177-199.	2.1	3
33	Nanofluidic fluorescence microscopy with integrated concentration gradient generation for one-shot parallel kinetic assays. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 338-342.	7.8	3
34	Multifunctional nanoassemblies target bacterial lipopolysaccharides for enhanced antimicrobial DNA delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111266.	5.0	3
35	Microbubbles for optofluidics: controlled defects in bubble crystals. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 549-560.	2.2	2
36	Direct observation of pore collapse and tensile stress generation on pore walls due to salt crystallization in a PDMS channel. <i>Soft Matter</i> , 2019, 15, 4562-4569.	2.7	2

#	ARTICLE	IF	CITATIONS
37	Accelerated Transport of Particles in Confined Channels with a High Roughness Amplitude. Langmuir, 2018, 34, 1394-1399.	3.5	1