

Sushanta K Mitra

List of Publications by Year in descending order

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221
papers

4,821
citations

81900

39
h-index

128289

60
g-index

222
all docs

222
docs citations

222
times ranked

5862
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization and characterization of biomolecule immobilization on silicon substrates using (3-aminopropyl)triethoxysilane (APTES) and glutaraldehyde linker. Applied Surface Science, 2014, 305, 522-530.	6.1	247
2	Reservoir-on-a-Chip (ROC): A new paradigm in reservoir engineering. Lab on A Chip, 2011, 11, 3785.	6.0	170
3	Effect of dynamic contact angle in a volume of fluid (VOF) model for a microfluidic capillary flow. Journal of Colloid and Interface Science, 2009, 339, 461-480.	9.4	137
4	Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 14944.	6.7	136
5	The progressive routes for carbon capture and sequestration. Energy Science and Engineering, 2016, 4, 99-122.	4.0	136
6	Understanding the micro structure of Berea Sandstone by the simultaneous use of micro-computed tomography (micro-CT) and focused ion beam-scanning electron microscopy (FIB-SEM). Micron, 2011, 42, 412-418.	2.2	123
7	Absolute permeability and Knudsen diffusivity measurements in PEMFC gas diffusion layers and micro porous layers. Journal of Power Sources, 2012, 206, 153-160.	7.8	119
8	Numerical simulation of flow through microchannels with designed roughness. Microfluidics and Nanofluidics, 2006, 2, 215-221.	2.2	115
9	Starch-based films enriched with nanocellulose-stabilized Pickering emulsions containing different essential oils for possible applications in food packaging. Food Packaging and Shelf Life, 2021, 27, 100615.	7.5	94
10	Investigation of water and CO ₂ (carbon dioxide) flooding using micro-CT (micro-computed) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 T 5209-5216.	8.8	89
11	Characterisation of PMMA microfluidic channels and devices fabricated by hot embossing and sealed by direct bonding. Current Applied Physics, 2009, 9, 1199-1202.	2.4	84
12	Exploring new scaling regimes for streaming potential and electroviscous effects in a nanocapillary with overlapping Electric Double Layers. Analytica Chimica Acta, 2013, 804, 159-166.	5.4	78
13	Nanotechnology for a Sustainable Future: Addressing Global Challenges with the International Network4Sustainable Nanotechnology. ACS Nano, 2021, 15, 18608-18623.	14.6	76
14	Focused ion beam-scanning electron microscopy on solid-oxide fuel-cell electrode: Image analysis and computing effective transport properties. Journal of Power Sources, 2011, 196, 3592-3603.	7.8	75
15	Experimental and numerical investigation of capillary flow in SU8 and PDMS microchannels with integrated pillars. Microfluidics and Nanofluidics, 2009, 7, 451-465.	2.2	69
16	Under-water superoleophobicity of fish scales. Scientific Reports, 2014, 4, 7454.	3.3	69
17	Early regimes of capillary filling. Physical Review E, 2012, 86, 067301.	2.1	66
18	Multi scale characterization of coal structure for mass transport. Fuel, 2015, 159, 315-323.	6.4	64

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19	Experimental study of mass transport in PEMFCs: Through plane permeability and molecular diffusivity in GDLs. <i>Electrochimica Acta</i> , 2015, 167, 160-171.	5.2	64
20	Simulations of Droplet Coalescence in Simple Shear Flow. <i>Langmuir</i> , 2013, 29, 6201-6212.	3.5	63
21	Stochastic reconstruction using multiple correlation functions with different-phase-neighbor-based pixel selection. <i>Physical Review E</i> , 2014, 90, 023306.	2.1	58
22	Different regimes in vertical capillary filling. <i>Physical Review E</i> , 2013, 87, 063005.	2.1	57
23	Anodic Growth of Large-Diameter Multipodal TiO ₂ Nanotubes. <i>ACS Nano</i> , 2010, 4, 7421-7430.	14.6	56
24	Numerical investigation of fluid flow and heat transfer over louvered fins in compact heat exchanger. <i>International Journal of Thermal Sciences</i> , 2007, 46, 199-211.	4.9	55
25	Redefining electrical double layer thickness in narrow confinements: Effect of solvent polarization. <i>Physical Review E</i> , 2012, 85, 051508.	2.1	51
26	Simultaneous dropwise and filmwise condensation on hydrophilic microstructured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 187-197.	4.8	51
27	Contact Angle Hysteresis of Microbead Suspensions. <i>Langmuir</i> , 2010, 26, 17082-17089.	3.5	50
28	A generalized mathematical model to study gas transport in PEMFC porous media. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 70-79.	4.8	48
29	Analytical Study of Natural Convection in a Cavity With Volumetric Heat Generation. <i>Journal of Heat Transfer</i> , 2006, 128, 176-182.	2.1	47
30	Knudsen Diffusivity and Permeability of PEMFC Microporous Coated Gas Diffusion Layers for Different Polytetrafluoroethylene Loadings. <i>Journal of the Electrochemical Society</i> , 2013, 160, F81-F89.	2.9	47
31	Modeling of a Coal-Fired Natural Circulation Boiler. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2007, 129, 159-167.	2.3	46
32	Understanding the Early Regime of Drop Spreading. <i>Langmuir</i> , 2016, 32, 8843-8848.	3.5	46
33	Mobile Water Kit (MWK): a smartphone compatible low-cost water monitoring system for rapid detection of total coliform and E. coli. <i>Analytical Methods</i> , 2014, 6, 6236.	2.7	45
34	Rapid detection of fluoride in potable water using a novel fluorogenic compound 7-O-tert-butyl-diphenylsilyl-4-methylcoumarin. <i>Analytical Chemistry Research</i> , 2015, 6, 26-31.	2.0	45
35	Electric double layer force between charged surfaces: Effect of solvent polarization. <i>Journal of Chemical Physics</i> , 2013, 138, 114703.	3.0	44
36	Magneto-hydrodynamics in narrow fluidic channels in presence of spatially non-uniform magnetic fields: framework for combined magneto-hydrodynamic and magnetophoretic particle transport. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 799-807.	2.2	43

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37	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. RSC Advances, 2017, 7, 15027-15040.	3.6	43
38	On-chip porous media: Porosity and permeability measurements. Chemical Engineering Science, 2013, 99, 274-283.	3.8	42
39	Bioconversion of coal: new insights from a core flooding study. RSC Advances, 2014, 4, 22779.	3.6	40
40	Pore-scale interfacial dynamics and oil-water relative permeabilities of capillary driven counter-current flow in fractured porous media. Journal of Petroleum Science and Engineering, 2013, 103, 106-114.	4.2	37
41	Detection of Escherichia coli in potable water using personal glucose meters. Analytical Methods, 2014, 6, 6223.	2.7	36
42	Characterization of Rosewood and Cinnamon Cassia essential oil polymeric capsules: Stability, loading efficiency, release rate and antimicrobial properties. Food Control, 2021, 121, 107605.	5.5	36
43	Thickness dependent electronic structure of ultra-thin tetrahedral amorphous carbon (ta-C) films. Thin Solid Films, 2012, 520, 2909-2915.	1.8	35
44	Optical measurement of pore scale velocity field inside microporous media. Microfluidics and Nanofluidics, 2012, 12, 189-200.	2.2	34
45	A comprehensive theoretical model of capillary transport in rectangular microchannels. Microfluidics and Nanofluidics, 2012, 12, 53-63.	2.2	32
46	Measurement of pressure drop and flow resistance in microchannels with integrated micropillars. Microfluidics and Nanofluidics, 2013, 14, 711-721.	2.2	32
47	Modeling of combined electroosmotic and capillary flow in microchannels. Analytica Chimica Acta, 2010, 663, 117-126.	5.4	31
48	A hydrogel based rapid test method for detection of Escherichia coli (E. coli) in contaminated water samples. Analyst, The, 2016, 141, 2920-2929.	3.5	31
49	Analytical model for zeta potential of asphaltene. Fuel, 2013, 108, 543-549.	6.4	29
50	Multigrid hierarchical simulated annealing method for reconstructing heterogeneous media. Physical Review E, 2015, 92, 063303.	2.1	29
51	Droplet migration during condensation on chemically patterned micropillars. RSC Advances, 2016, 6, 36698-36704.	3.6	29
52	Editors' Choice "Artificial Intelligence Based Mobile Application for Water Quality Monitoring. Journal of the Electrochemical Society, 2019, 166, B3031-B3035.	2.9	29
53	Optical biosensors with an integrated Mach-Zehnder Interferometer for detection of Listeria monocytogenes. Biomedical Microdevices, 2014, 16, 509-520.	2.8	28
54	Physical understanding of gas-liquid annular flow and its transition to dispersed droplets. Physics of Fluids, 2016, 28, .	4.0	28

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55	Characterization of Nanometer-Scale Porosity in Reservoir Carbonate Rock by Focused Ion Beam Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 171-178.	0.4	27
56	Wetting characteristics of underwater micro-patterned surfaces. <i>RSC Advances</i> , 2017, 7, 9064-9072.	3.6	27
57	Experimental investigation of use of horizontal wells in waterflooding. <i>Journal of Petroleum Science and Engineering</i> , 2007, 56, 303-310.	4.2	26
58	Study on the use of dielectrophoresis and electrothermal forces to produce on-chip micromixers and microconcentrators. <i>Biomicrofluidics</i> , 2012, 6, 034118.	2.4	26
59	Effect of Temperature on Morphologies of Evaporation-Triggered Asphaltene Nanoaggregates. <i>Langmuir</i> , 2014, 30, 800-804.	3.5	26
60	Filling of charged cylindrical capillaries. <i>Physical Review E</i> , 2014, 90, 043011.	2.1	26
61	Microbiologically Induced Calcite Precipitation Mediated by <i>Sporosarcina pasteurii</i> . <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	26
62	Under-water superoleophobic Glass: Unexplored role of the surfactant-rich solvent. <i>Scientific Reports</i> , 2013, 3, 1862.	3.3	25
63	Simulations of Janus droplets at equilibrium and in shear. <i>Physics of Fluids</i> , 2014, 26, .	4.0	25
64	The Critical Conditions for Coalescence in Phase Field Simulations of Colliding Droplets in Shear. <i>Langmuir</i> , 2014, 30, 14416-14426.	3.5	25
65	Amphiphobic surfaces from functionalized TiO ₂ nanotube arrays. <i>RSC Advances</i> , 2014, 4, 33587-33598.	3.6	25
66	Ring stains in the presence of electrokinetic interactions. <i>Physical Review E</i> , 2012, 85, 046311.	2.1	24
67	Finite reservoir effect on capillary flow of microbead suspension in rectangular microchannels. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 561-569.	9.4	23
68	Wetting, Adhesion, and Droplet Impact on Face Masks. <i>Langmuir</i> , 2021, 37, 2810-2815.	3.5	23
69	Numerical simulation of electroosmotic effect in serpentine channels. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 261-269.	2.2	22
70	New Laboratory Core Flooding Experimental System. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13497-13505.	3.7	21
71	Water-alternate-emulsion (WAE): A new technique for enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2014, 121, 167-173.	4.2	21
72	Development of Dual-Phobic Surfaces: Superamphiphobicity in Air and Oleophobicity Underwater. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6716-6726.	6.7	21

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73	Anomalous Wetting of Underliquid Systems: Oil Drops in Water and Water Drops in Oil. <i>Langmuir</i> , 2018, 34, 11695-11705.	3.5	21
74	Particle Deposition onto Janus and Patchy Spherical Collectors. <i>Langmuir</i> , 2011, 27, 8787-8797.	3.5	20
75	Dynamics of liquid droplets in an evaporating drop: liquid droplet "coffee stain" effect. <i>RSC Advances</i> , 2012, 2, 8390.	3.6	20
76	Inertial rise in short capillary tubes. <i>RSC Advances</i> , 2014, 4, 14781.	3.6	20
77	DipTest: A litmus test for E. coli detection in water. <i>PLoS ONE</i> , 2017, 12, e0183234.	2.5	20
78	Wettability of nanostructured hexagonal boron nitride surfaces: molecular dynamics insights on the effect of wetting anisotropy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2488-2497.	2.8	20
79	A PREDICTIVE MODEL FOR DROPLET SIZE DISTRIBUTION IN SPRAYS. <i>Atomization and Sprays</i> , 1999, 9, 29-50.	0.8	20
80	Numerical Study of Capillary Flow in Microchannels With Alternate Hydrophilic-Hydrophobic Bottom Wall. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2009, 131, .	1.5	19
81	Drop deposition on under-liquid low energy surfaces. <i>Soft Matter</i> , 2013, 9, 7437.	2.7	19
82	On the wetting translucency of hexagonal boron nitride. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7710-7718.	2.8	19
83	Investigation of natural circulation in cavities with uniform heat generation for different Prandtl number fluids. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1465-1474.	4.8	18
84	Oxygen plasma assisted end-opening and field emission enhancement in vertically aligned multiwall carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2012, 134, 425-429.	4.0	18
85	Bending and growth of entrained air filament under converging and asymmetric rotational fields. <i>Physics of Fluids</i> , 2017, 29, .	4.0	18
86	Lattice Boltzmann simulations of pinched flow fractionation. <i>Chemical Engineering Science</i> , 2012, 75, 106-119.	3.8	17
87	Electric double-layer interactions in a wedge geometry: Change in contact angle for drops and bubbles. <i>Physical Review E</i> , 2013, 88, 033021.	2.1	17
88	Electro-osmotic flows through topographically complicated porous media: Role of electropermeability tensor. <i>Physical Review E</i> , 2013, 87, .	2.1	17
89	Determination of Charge on Asphaltene Nanoaggregates in Air Using Electrostatic Force Microscopy. <i>Langmuir</i> , 2015, 31, 679-684.	3.5	17
90	A comparative study of the growth, microstructural and electrical properties of multiwall CNTs grown by thermal and microwave plasma enhanced CVD methods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 29-36.	2.7	16

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91	Nano as a Rosetta Stone: The Global Roles and Opportunities for Nanoscience and Nanotechnology. ACS Nano, 2019, 13, 10853-10855.	14.6	16
92	On the Breakup of Viscous Liquid Sheets by Dual-Mode Linear Analysis. Journal of Propulsion and Power, 2001, 17, 728-735.	2.2	15
93	An investigation of convective transport in micro proton-exchange membrane fuel cells. Journal of Power Sources, 2006, 162, 985-991.	7.8	15
94	Effect of Scaling Parameters on Waterflood Performance with Horizontal and Vertical Wells. Energy & Fuels, 2008, 22, 402-409.	5.1	15
95	Structural and surface energy analysis of nitrogenated ta-C films. Thin Solid Films, 2011, 520, 294-301.	1.8	15
96	Methane sensing at room temperature using photothermal cantilever deflection spectroscopy. Sensors and Actuators B: Chemical, 2015, 221, 564-569.	7.8	15
97	Evaluation of the antimicrobial activity of Moringa oleifera seed extract as a sustainable solution for potable water. RSC Advances, 2016, 6, 25918-25926.	3.6	15
98	On the Derivation of Pressure Field Distribution at the Entrance of a Rectangular Capillary. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	14
99	Controlling heat transfer in micro electron beam welding using volumetric heating. International Journal of Heat and Mass Transfer, 2011, 54, 5545-5553.	4.8	14
100	Interfacial rheological and wetting properties of deamidated barley proteins. Food Hydrocolloids, 2015, 43, 400-409.	10.7	14
101	Air entrainment driven by a converging rotational field in a viscous liquid. Physics of Fluids, 2017, 29, .	4.0	14
102	Vortex Formation and Subsequent Air Entrainment inside a Liquid Pool. Industrial & Engineering Chemistry Research, 2018, 57, 6538-6552.	3.7	14
103	Electrochemistry of single nanoparticles: general discussion. Faraday Discussions, 2016, 193, 387-413.	3.2	13
104	Experimental and numerical investigation of one-dimensional waterflood in porous reservoir. Experimental Thermal and Fluid Science, 2007, 32, 355-361.	2.7	12
105	Lateral migration of viscoelastic droplets in a viscoelastic confined flow: role of discrete phase viscoelasticity. Soft Matter, 2019, 15, 9003-9010.	2.7	12
106	Experimental and Numerical Investigations of Waterflood Profiles with Different Well Configurations. Energy & Fuels, 2007, 21, 3353-3359.	5.1	11
107	Investigation of Combined Electro-Osmotic and Pressure-Driven Flow in Rough Microchannels. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	11
108	Ring stains in the presence of electromagnetohydrodynamic interactions. Physical Review E, 2012, 86, 056317.	2.1	11

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109	Micro-spot with integrated pillars (MSIP) for detection of dengue virus NS1. <i>Biomedical Microdevices</i> , 2013, 15, 959-971.	2.8	11
110	Contact angle hysteresis of bovine serum albumin (BSA) solution/metal (Au-Cr) coated glass substrate. <i>Colloid and Polymer Science</i> , 2013, 291, 375-381.	2.1	11
111	Encapsulation with an interfacial liquid layer: Robust and efficient liquid-liquid wrapping. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 334-344.	9.4	11
112	Electroosmotic effect on flows in a serpentine microchannel with varying zeta potential. <i>Journal of Power Sources</i> , 2007, 164, 154-165.	7.8	10
113	Aerosol penetration in microchannels. <i>Journal of Aerosol Science</i> , 2011, 42, 321-328.	3.8	10
114	Analysis, design and fabrication of optical waveguides for Mach-Zehnder Interferometry. <i>Optics Communications</i> , 2013, 311, 338-345.	2.1	10
115	Symmetric drop coalescence on an under-liquid substrate. <i>Physical Review E</i> , 2015, 92, 033013.	2.1	10
116	Simulations of charged droplet collisions in shear flow. <i>Chemical Engineering Journal</i> , 2016, 302, 314-322.	12.7	10
117	Quantifying Water Friction in Misaligned Graphene Channels under Ångström Confinements. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35757-35764.	8.0	10
118	Particle transport in patterned cylindrical microchannels. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 41-51.	2.2	9
119	Kinetic Modeling of the Biogenic Production of Coalbed Methane. <i>Energy & Fuels</i> , 2016, , .	5.1	9
120	Estimation of permeability heterogeneity in limestone outcrop by pressure measurements: Experiments and numerical simulation. <i>Experimental Thermal and Fluid Science</i> , 2012, 40, 177-184.	2.7	8
121	Needle-free drop deposition: the role of elastic membranes. <i>RSC Advances</i> , 2015, 5, 82374-82380.	3.6	8
122	Stochastic Reconstruction and Transport Simulation of PEFC Catalyst Layers. <i>ECS Transactions</i> , 2015, 69, 105-120.	0.5	7
123	Viscoelastic tribopairs in dry and lubricated sliding friction. <i>Soft Matter</i> , 2020, 16, 7447-7457.	2.7	7
124	Parametric energy conversion of thermoacoustic vibrations. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	6
125	Part I: Development of new heat source model applicable to micro electron beam welding. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 429-434.	3.1	6
126	Modeling of Asphaltene Transport and Separation in the Presence of Finite Aggregation Effects in Pressure-Driven Microchannel Flow. <i>Energy & Fuels</i> , 2012, 26, 5851-5857.	5.1	6

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127	Asphaltene migration and separation in presence of aggregation in electroosmoticâ€“electrophoretic microchannel transport. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 23-32.	4.7	6
128	Proposition of stair climb of a drop using chemical wettability gradient. <i>Physics of Fluids</i> , 2017, 29, .	4.0	6
129	Numerical Understanding of Free Surface Vortex Driven by Rotational Field Inside Viscous Liquid. <i>Heat Transfer Engineering</i> , 2020, 41, 1382-1396.	1.9	6
130	Precursor-Film-Mediated Thermocapillary Motion of Low-Surface-Tension Microdroplets. <i>Langmuir</i> , 2020, 36, 5096-5105.	3.5	6
131	Microparticle Suspensions and Bacteria-Laden Droplets: Are They the Same in Terms of Wetting Signature?. <i>Langmuir</i> , 2021, 37, 1588-1595.	3.5	6
132	Reflected Laser Interferometry: A Versatile Tool to Probe Condensation of Low-Surface-Tension Droplets. <i>Langmuir</i> , 2021, 37, 8073-8082.	3.5	6
133	Friction and Adhesion of Microparticle Suspensions on Repellent Surfaces. <i>Langmuir</i> , 2020, 36, 13689-13697.	3.5	6
134	Chemical Stabilization behind Cardamom Pickering Emulsion Using Nanocellulose. <i>Polysaccharides</i> , 2022, 3, 200-216.	4.8	6
135	Toward Unveiling the Anomalies Associated with the Spontaneous Spreading of Droplets. <i>Langmuir</i> , 2021, 37, 14833-14845.	3.5	6
136	Liquidâ€“Liquid Encapsulation of Ferrofluid Using Magnetic Field. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
137	Patterned Microfluidic Channels Using Self-assembled Hydroxy-Phenyl Porphyrin Monolayer. , 2007, , .		5
138	Photonic Crystal Based Biosensor with Built-In Nanofluidics Channels. <i>ECS Transactions</i> , 2011, 35, 91-95.	0.5	5
139	Needle-free drop deposition technique for contact angle measurements of superhydrophobic surfaces. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	5
140	Computation of streaming potential in porous media: Modified permeability tensor. <i>Journal of Computational Physics</i> , 2015, 300, 53-69.	3.8	5
141	Fishing, trapping and killing of <i>Escherichia coli</i> (E. coli) in potable water. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 931-941.	2.4	5
142	A novel method for fabrication of paper-based microfluidic devices using BSA-ink. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1617-1622.	7.5	5
143	Probing Liquid Drop Induced Deformation on Soft Solids Using Dual-Wavelength Reflection Interference Contrast Microscopy. <i>Langmuir</i> , 2022, 38, 7750-7758.	3.5	5
144	Creeping Flow Through Microchannels With Integrated Micro-Pillars. , 2012, , .		4

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145	Direct Simulation of Transport Properties from Three-Dimensional (3D) Reconstructed Solid-Oxide Fuel-Cell (SOFC) Electrode Microstructures. <i>Journal of Physics: Conference Series</i> , 2012, 362, 012001.	0.4	4
146	Rapid Water Quality Monitoring for Microbial Contamination. <i>Electrochemical Society Interface</i> , 2016, 25, 73-78.	0.4	4
147	Structure and function of natural proteins for water transport: general discussion. <i>Faraday Discussions</i> , 2018, 209, 83-95.	3.2	4
148	Applications to water transport systems: general discussion. <i>Faraday Discussions</i> , 2018, 209, 389-414.	3.2	4
149	An Investigation of Flashing-Driven Natural Circulation. <i>International Journal of Green Energy</i> , 2006, 3, 369-379.	3.8	3
150	Lattice-Boltzmann Method to Estimate Relative Permeabilities for Matrix-Fracture Interaction in Naturally Fractured Reservoirs. , 2010, , .		3
151	Modeling of Micro Welding Process Using Electron Beam Under High Peclet Number. , 2010, , .		3
152	Investigation of Interstitial Velocity Field Inside Micro-Porous Media. , 2010, , .		3
153	Part 2: Application of Kanayaâ€™Okayama heat source in modelling micro electron beam welding. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 435-440.	3.1	3
154	Contribution of interfacial electrostriction in surface tension. <i>Journal of Colloid and Interface Science</i> , 2013, 400, 130-134.	9.4	3
155	Hollow fiber concentrator for water quality monitoring: role of surfactant based elution fluids. <i>RSC Advances</i> , 2015, 5, 62439-62448.	3.6	3
156	Synthesis of Shape-Controllable Anisotropic Microparticles and â€™Walnut-likeâ€™ Microparticles via Emulsion Interfacial Polymerization. <i>Langmuir</i> , 2021, 37, 6007-6015.	3.5	3
157	Mass Transport Measurements in Porous Transport Layers of a PEM Fuel Cell. , 2011, , .		3
158	Analytical Study of Natural Convection in a Cavity With Volumetric Heat Generation. , 2004, , 303.		2
159	Fluid Flow and Heat Transfer Analysis of Automotive Radiator Using CFD Tools. , 2005, , 555.		2
160	Investigation of Three-Dimensional Flow in Microchannels With Patterned Surfaces. , 2007, , 527.		2
161	Modeling of Dielectrophoresis for Myoglobin Molecules in a Microchannel With Parallel Electrodes. , 2009, , .		2
162	Dielectrophoretic Mixing With Novel Electrode Geometry. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
163	The Wetting Behavior of TiO ₂ Nanotube Arrays With Perfluorinated Surface Functionalization. , 2014, , .		2
164	Reduced Pressure Drop in Viscoelastic Polydimethylsiloxane Wall Channels. Langmuir, 2021, , .	3.5	2
165	Performance Model for a Horizontal Tube Falling Film Evaporator in a Desalination Unit. , 2004, , 105.		1
166	Study of Natural Convection in Inclined Square Enclosures With Uniform Heat Generation. , 2007, , 1085.		1
167	Simulation of Flow Control in Microchannels Using Ferrofluid Plugs. , 2009, , .		1
168	A Generalized Analysis of Electroosmotically Driven Capillary Flow in Rectangular Microchannels. , 2009, , .		1
169	Mechanism of Cell Transport in a Microchannel With Binding Between Cell Surface and Immobilized Biomolecules. , 2009, , .		1
170	Fabrication of Dielectrophoretic Microfluidic Device. , 2009, , .		1
171	Design of an Experimental Setup to Study Mass Transport in Micro-Nano Capillaries and Porous Media. , 2010, , .		1
172	Modified multi-component gas transport formulation with phoretic effects. Microfluidics and Nanofluidics, 2011, 11, 725-742.	2.2	1
173	Microfluidics for Detection of Myoglobin in Blood Samples. ECS Transactions, 2011, 35, 57-64.	0.5	1
174	Carbon Nanotube-Metal Contact. , 2012, , 388-391.		1
175	Experimental Investigation of the Flow Front Behind a Liquid-Air Interface for Capillary Flow. , 2012, , .		1
176	Simulations of Droplet Collisions in Shear Flow. , 2012, , .		1
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