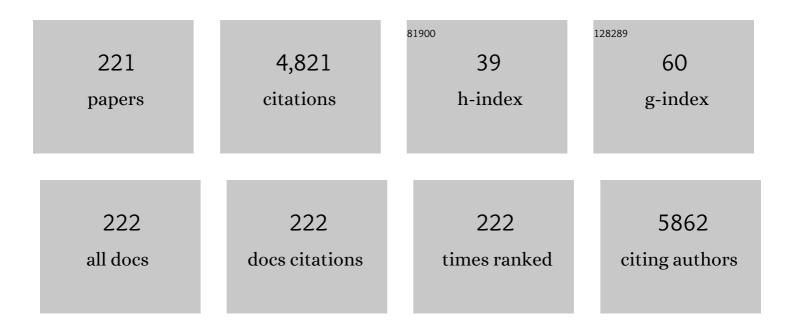
Sushanta K Mitra

List of Publications by Year in descending order

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<u> Slishanta K Μίτρα</u>

#	Article	IF	CITATIONS
1	Chemical Stabilization behind Cardamom Pickering Emulsion Using Nanocellulose. Polysaccharides, 2022, 3, 200-216.	4.8	6
2	Liquid–Liquid Encapsulation of Ferrofluid Using Magnetic Field. Advanced Materials Interfaces, 2022, 9, .	3.7	6
3	Probing Liquid Drop Induced Deformation on Soft Solids Using Dual-Wavelength Reflection Interference Contrast Microscopy. Langmuir, 2022, 38, 7750-7758.	3.5	5
4	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
5	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
6	Microparticle Suspensions and Bacteria-Laden Droplets: Are They the Same in Terms of Wetting Signature?. Langmuir, 2021, 37, 1588-1595.	3.5	6
7	Wetting, Adhesion, and Droplet Impact on Face Masks. Langmuir, 2021, 37, 2810-2815.	3.5	23
8	Determining the Composition of 100 Nano-Liter Fuel Mixture in a Silicon Micro-Cuvette Using Ultraviolet Absorption Spectroscopy. Journal of Microelectromechanical Systems, 2021, 30, 315-321.	2.5	1
9	Synthesis of Shape-Controllable Anisotropic Microparticles and "Walnut-like―Microparticles via Emulsion Interfacial Polymerization. Langmuir, 2021, 37, 6007-6015.	3.5	3
10	Reflected Laser Interferometry: A Versatile Tool to Probe Condensation of Low-Surface-Tension Droplets. Langmuir, 2021, 37, 8073-8082.	3.5	6
11	A novel method for fabrication of paper-based microfluidic devices using BSA-ink. International Journal of Biological Macromolecules, 2021, 193, 1617-1622.	7.5	5
12	Reduced Pressure Drop in Viscoelastic Polydimethylsiloxane Wall Channels. Langmuir, 2021, , .	3.5	2
13	Dip-and-Fold Device: A Paper-Based Testing Platform for Rapid Assessment of Insecticides in Water Samples. ACS Applied Bio Materials, 2021, 4, 8456-8465.	4.6	1
14	Toward Unveiling the Anomalies Associated with the Spontaneous Spreading of Droplets. Langmuir, 2021, 37, 14833-14845.	3.5	6
15	Nanotechnology for a Sustainable Future: Addressing Global Challenges with the International Network4Sustainable Nanotechnology. ACS Nano, 2021, 15, 18608-18623.	14.6	76
16	Encapsulation with an interfacial liquid layer: Robust and efficient liquid-liquid wrapping. Journal of Colloid and Interface Science, 2020, 558, 334-344.	9.4	11
17	Numerical Understanding of Free Surface Vortex Driven by Rotational Field Inside Viscous Liquid. Heat Transfer Engineering, 2020, 41, 1382-1396.	1.9	6
18	Wettability of nanostructured hexagonal boron nitride surfaces: molecular dynamics insights on the effect of wetting anisotropy. Physical Chemistry Chemical Physics, 2020, 22, 2488-2497.	2.8	20

#	Article	IF	CITATIONS
19	Quantifying Water Friction in Misaligned Graphene Channels under Ångström Confinements. ACS Applied Materials & Interfaces, 2020, 12, 35757-35764.	8.0	10
20	Viscoelastic tribopairs in dry and lubricated sliding friction. Soft Matter, 2020, 16, 7447-7457.	2.7	7
21	On the wetting translucency of hexagonal boron nitride. Physical Chemistry Chemical Physics, 2020, 22, 7710-7718.	2.8	19
22	Precursor-Film-Mediated Thermocapillary Motion of Low-Surface-Tension Microdroplets. Langmuir, 2020, 36, 5096-5105.	3.5	6
23	Friction and Adhesion of Microparticle Suspensions on Repellent Surfaces. Langmuir, 2020, 36, 13689-13697.	3.5	6
24	Nano as a Rosetta Stone: The Global Roles and Opportunities for Nanoscience and Nanotechnology. ACS Nano, 2019, 13, 10853-10855.	14.6	16
25	Editors' Choice—Artificial Intelligence Based Mobile Application for Water Quality Monitoring. Journal of the Electrochemical Society, 2019, 166, B3031-B3035.	2.9	29
26	The Waterloo Institute for Nanotechnology: Societal Impact and a Sustainable Future. ACS Nano, 2019, 13, 12247-12253.	14.6	1
27	Lateral migration of viscoelastic droplets in a viscoelastic confined flow: role of discrete phase viscoelasticity. Soft Matter, 2019, 15, 9003-9010.	2.7	12
28	Proposition of an optical arrangement for interface reconstruction between stratified liquids. Chemical Engineering Science, 2018, 183, 75-85.	3.8	1
29	Vortex Formation and Subsequent Air Entrainment inside a Liquid Pool. Industrial & Engineering Chemistry Research, 2018, 57, 6538-6552.	3.7	14
30	Structure and function of natural proteins for water transport: general discussion. Faraday Discussions, 2018, 209, 83-95.	3.2	4
31	Anomalous Wetting of Underliquid Systems: Oil Drops in Water and Water Drops in Oil. Langmuir, 2018, 34, 11695-11705.	3.5	21
32	Applications to water transport systems: general discussion. Faraday Discussions, 2018, 209, 389-414.	3.2	4
33	Wetting of Water Drops on a PMMA Substrate in Viscous Medium. , 2018, , .		0
34	Wetting characteristics of underwater micro-patterned surfaces. RSC Advances, 2017, 7, 9064-9072.	3.6	27
35	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. RSC Advances, 2017, 7, 15027-15040.	3.6	43
36	Bending and growth of entrained air filament under converging and asymmetric rotational fields. Physics of Fluids, 2017, 29, .	4.0	18

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37	Air entrainment driven by a converging rotational field in a viscous liquid. Physics of Fluids, 2017, 29, .	4.0	14
38	Simultaneous dropwise and filmwise condensation on hydrophilic microstructured surfaces. International Journal of Heat and Mass Transfer, 2017, 114, 187-197.	4.8	51
39	Development of Dual-Phobic Surfaces: Superamphiphobicity in Air and Oleophobicity Underwater. ACS Sustainable Chemistry and Engineering, 2017, 5, 6716-6726.	6.7	21
40	Proposition of stair climb of a drop using chemical wettability gradient. Physics of Fluids, 2017, 29, .	4.0	6
41	DipTest: A litmus test for E. coli detection in water. PLoS ONE, 2017, 12, e0183234.	2.5	20
42	Electrochemistry of single nanoparticles: general discussion. Faraday Discussions, 2016, 193, 387-413.	3.2	13
43	Towards the Understanding of Transformation of Annular to Droplet-Annular Gas-Liquid Flow. , 2016, , .		Ο
44	Physical understanding of gas-liquid annular flow and its transition to dispersed droplets. Physics of Fluids, 2016, 28, .	4.0	28
45	Underwater Wetting Behavior on Micro-Patterned Surfaces. , 2016, , .		Ο
46	Droplet migration during condensation on chemically patterned micropillars. RSC Advances, 2016, 6, 36698-36704.	3.6	29
47	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
48	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
49	The progressive routes for carbon capture and sequestration. Energy Science and Engineering, 2016, 4, 99-122.	4.0	136
50	Understanding the Early Regime of Drop Spreading. Langmuir, 2016, 32, 8843-8848.	3.5	46
51	Fishing, trapping and killing of Escherichia coli (E. coli) in potable water. Environmental Science: Water Research and Technology, 2016, 2, 931-941.	2.4	5
52	Microbiologically Induced Calcite Precipitation Mediated by Sporosarcina pasteurii . Journal of Visualized Experiments, 2016, , .	0.3	26
53	Rapid Water Quality Monitoring for Microbial Contamination. Electrochemical Society Interface, 2016, 25, 73-78.	0.4	4
54	Reactions at the nanoscale: general discussion. Faraday Discussions, 2016, 193, 265-292.	3.2	1

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#	Article	IF	CITATIONS
55	Simulations of charged droplet collisions in shear flow. Chemical Engineering Journal, 2016, 302, 314-322.	12.7	10
56	Kinetic Modeling of the Biogenic Production of Coalbed Methane. Energy & Fuels, 2016, , .	5.1	9
57	Capillary Flow. , 2016, , 437-447.		0
58	Mobile Water Kit 2.0: A Field Deployable Solution for E. coli Detection in Potable Water. ECS Transactions, 2016, 75, 315-318.	0.5	0
59	Hollow fiber concentrator for water quality monitoring: role of surfactant based elution fluids. RSC Advances, 2015, 5, 62439-62448.	3.6	3
60	Symmetric drop coalescence on an under-liquid substrate. Physical Review E, 2015, 92, 033013.	2.1	10
61	Multigrid hierarchical simulated annealing method for reconstructing heterogeneous media. Physical Review E, 2015, 92, 063303.	2.1	29
62	Methane sensing at room temperature using photothermal cantilever deflection spectroscopy. Sensors and Actuators B: Chemical, 2015, 221, 564-569.	7.8	15
63	Multi scale characterization of coal structure for mass transport. Fuel, 2015, 159, 315-323.	6.4	64
64	Experimental study of mass transport in PEMFCs: Through plane permeability and molecular diffusivity in GDLs. Electrochimica Acta, 2015, 167, 160-171.	5.2	64
65	Needle-free drop deposition: the role of elastic membranes. RSC Advances, 2015, 5, 82374-82380.	3.6	8
66	Computation of streaming potential in porous media: Modified permeability tensor. Journal of Computational Physics, 2015, 300, 53-69.	3.8	5
67	Stochastic Reconstruction and Transport Simulation of PEFC Catalyst Layers. ECS Transactions, 2015, 69, 105-120.	0.5	7
68	Rapid detection of fluoride in potable water using a novel fluorogenic compound 7-O-tert-butyldiphenylsilyl-4-methylcoumarin. Analytical Chemistry Research, 2015, 6, 26-31.	2.0	45
69	Determination of Charge on Asphaltene Nanoaggregates in Air Using Electrostatic Force Microscopy. Langmuir, 2015, 31, 679-684.	3.5	17
70	Interfacial rheological and wetting properties of deamidated barley proteins. Food Hydrocolloids, 2015, 43, 400-409.	10.7	14
71	The Wetting Behavior of TiO2 Nanotube Arrays With Perfluorinated Surface Functionalization. , 2014, , .		2

72 Capillary Imbibition Dynamics in Porous Media. , 2014, , .

#	Article	IF	CITATIONS
73	Design of a self-tuning controller for local water quality adjustment. , 2014, , .		1
74	Simulations of Janus droplets at equilibrium and in shear. Physics of Fluids, 2014, 26, .	4.0	25
75	Needle-free drop deposition technique for contact angle measurements of superhydrophobic surfaces. Journal of Applied Physics, 2014, 116, .	2.5	5
76	Challenges and Opportunities for Capillary Based Biofunctionalization of Microcantilever Arrays. Journal of the Electrochemical Society, 2014, 161, B3167-B3172.	2.9	1
77	Stochastic reconstruction using multiple correlation functions with different-phase-neighbor-based pixel selection. Physical Review E, 2014, 90, 023306.	2.1	58
78	The Critical Conditions for Coalescence in Phase Field Simulations of Colliding Droplets in Shear. Langmuir, 2014, 30, 14416-14426.	3.5	25
79	Asphaltene migration and separation in presence of aggregation in electroosmotic–electrophoretic microchannel transport. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 23-32.	4.7	6
80	Effect of Temperature on Morphologies of Evaporation-Triggered Asphaltene Nanoaggregates. Langmuir, 2014, 30, 800-804.	3.5	26
81	Filling of charged cylindrical capillaries. Physical Review E, 2014, 90, 043011.	2.1	26
82	Bioconversion of coal: new insights from a core flooding study. RSC Advances, 2014, 4, 22779.	3.6	40
83	Inertial rise in short capillary tubes. RSC Advances, 2014, 4, 14781.	3.6	20
84	Mobile Water Kit (MWK): a smartphone compatible low-cost water monitoring system for rapid detection of total coliform and E. coli. Analytical Methods, 2014, 6, 6236.	2.7	45
85	New Laboratory Core Flooding Experimental System. Industrial & Engineering Chemistry Research, 2014, 53, 13497-13505.	3.7	21
86	Amphiphobic surfaces from functionalized TiO ₂ nanotube arrays. RSC Advances, 2014, 4, 33587-33598.	3.6	25
87	Water-alternate-emulsion (WAE): A new technique for enhanced oil recovery. Journal of Petroleum Science and Engineering, 2014, 121, 167-173.	4.2	21
88	Detection of Escherichia coli in potable water using personal glucose meters. Analytical Methods, 2014, 6, 6223.	2.7	36
89	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
90	Optical biosensors with an integrated Mach-Zehnder Interferometer for detection of Listeria monocytogenes. Biomedical Microdevices, 2014, 16, 509-520.	2.8	28

#	Article	IF	CITATIONS
91	Under-water superoleophobicity of fish scales. Scientific Reports, 2014, 4, 7454.	3.3	69
92	Surface Modification, Methods. , 2014, , 1-9.		0
93	Analytical model for zeta potential of asphaltene. Fuel, 2013, 108, 543-549.	6.4	29
94	Micro-spot with integrated pillars (MSIP) for detection of dengue virus NS1. Biomedical Microdevices, 2013, 15, 959-971.	2.8	11
95	Contact angle hysteresis of bovine serum albumin (BSA) solution/metal (Au-Cr) coated glass substrate. Colloid and Polymer Science, 2013, 291, 375-381.	2.1	11
96	On-chip porous media: Porosity and permeability measurements. Chemical Engineering Science, 2013, 99, 274-283.	3.8	42
97	Electric double-layer interactions in a wedge geometry: Change in contact angle for drops and bubbles. Physical Review E, 2013, 88, 033021.	2.1	17
98	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
99	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
100	Analysis, design and fabrication of optical waveguides for Mach–Zehnder Interferometry. Optics Communications, 2013, 311, 338-345.	2.1	10
101	A generalized mathematical model to study gas transport in PEMFC porous media. International Journal of Heat and Mass Transfer, 2013, 58, 70-79.	4.8	48
102	Electro-osmotic flows through topographically complicated porous media: Role of electropermeability tensor. Physical Review E, 2013, 87, .	2.1	17
103	Simulations of Droplet Coalescence in Simple Shear Flow. Langmuir, 2013, 29, 6201-6212.	3.5	63
104	Contribution of interfacial electrostriction in surface tension. Journal of Colloid and Interface Science, 2013, 400, 130-134.	9.4	3
105	Different regimes in vertical capillary filling. Physical Review E, 2013, 87, 063005.	2.1	57
106	Drop deposition on under-liquid low energy surfaces. Soft Matter, 2013, 9, 7437.	2.7	19
107	Measurement of pressure drop and flow resistance in microchannels with integrated micropillars. Microfluidics and Nanofluidics, 2013, 14, 711-721.	2.2	32
108	Knudsen Diffusivity and Permeability of PEMFC Microporous Coated Gas Diffusion Layers for Different Polytetrafluoroethylene Loadings. Journal of the Electrochemical Society, 2013, 160, F81-F89.	2.9	47

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#	Article	IF	CITATIONS
109	On-Chip Power Generation: Microfluidic-Based Reactor for Catalytic Combustion of Methanol. , 2013, ,		0
110	Microfluidic Based Biosensor for Detection of Cardiac Markers. , 2013, , .		0
111	Microspot With Integrated Wells (MSIW) for the Detection of E.coli. , 2013, , .		0
112	Drop Deposition Technique on Low Energy Surface. , 2013, , .		0
113	Electric double layer force between charged surfaces: Effect of solvent polarization. Journal of Chemical Physics, 2013, 138, 114703.	3.0	44
114	Effect of Charge Distribution at the Three Phase Contact Line for an Electrolyte Drop. , 2013, , .		0
115	Under-water superoleophobic Glass: Unexplored role of the surfactant-rich solvent. Scientific Reports, 2013, 3, 1862.	3.3	25
116	Carbon Nanotube-Metal Contact. , 2012, , 388-391.		1
117	Part 2: Application of Kanaya–Okayama heat source in modelling micro electron beam welding. Science and Technology of Welding and Joining, 2012, 17, 435-440.	3.1	3
118	Parametric energy conversion of thermoacoustic vibrations. Applied Physics Letters, 2012, 100, .	3.3	6
119	Ring stains in the presence of electrokinetic interactions. Physical Review E, 2012, 85, 046311.	2.1	24
120	Publisher's Note: Redefining electrical double layer thickness in narrow confinements: Effect of solvent polarization [Phys. Rev. E85, 051508 (2012)]. Physical Review E, 2012, 86, .	2.1	0
121	Study on the use of dielectrophoresis and electrothermal forces to produce on-chip micromixers and microconcentrators. Biomicrofluidics, 2012, 6, 034118.	2.4	26
122	Creeping Flow Through Microchannels With Integrated Micro-Pillars. , 2012, , .		4
123	Experimental Investigation of the Flow Front Behind a Liquid-Air Interface for Capillary Flow. , 2012, , .		1
124	Statistical Analysis of Velocity Fields Obtained From Experimental Study of Micro-Porous Media. , 2012, , .		0
125	Simulations of Droplet Collisions in Shear Flow. , 2012, , .		1

126 Characterization of Transport Properties in Porous Media of a PEM Fuel Cell., 2012,,.

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#	Article	IF	CITATIONS
127	Monte Carlo Simulations to Determine Effective Gas Diffusivity of an Actual Porous Medium Image Obtained From Focused Ion Beam Scanning Electron Microscopy. , 2012, , .		Ο
128	Modeling of Micro Electron Beam Welding With Melting and Evaporation. , 2012, , .		0
129	Direct Simulation of Transport Properties from Three-Dimensional (3D) Reconstructed Solid-Oxide Fuel-Cell (SOFC) Electrode Microstructures. Journal of Physics: Conference Series, 2012, 362, 012001.	0.4	4
130	Part I: Development of new heat source model applicable to micro electron beam welding. Science and Technology of Welding and Joining, 2012, 17, 429-434.	3.1	6
131	Characterization of Nanometer-Scale Porosity in Reservoir Carbonate Rock by Focused Ion Beam–Scanning Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 171-178.	0.4	27
132	Dynamics of liquid droplets in an evaporating drop: liquid droplet "coffee stain―effect. RSC Advances, 2012, 2, 8390.	3.6	20
133	Magnetohydrodynamics in narrow fluidic channels in presence of spatially non-uniform magnetic fields: framework for combined magnetohydrodynamic and magnetophoretic particle transport. Microfluidics and Nanofluidics, 2012, 13, 799-807.	2.2	43
134	Early regimes of capillary filling. Physical Review E, 2012, 86, 067301.	2.1	66
135	Redefining electrical double layer thickness in narrow confinements: Effect of solvent polarization. Physical Review E, 2012, 85, 051508.	2.1	51
136	Capacitive MEMS Switches. , 2012, , 363-374.		0
137	Modeling of Asphaltene Transport and Separation in the Presence of Finite Aggregation Effects in Pressure-Driven Microchannel Flow. Energy & Fuels, 2012, 26, 5851-5857.	5.1	6
138	Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 14944.	6.7	136
139	Ring stains in the presence of electromagnetohydrodynamic interactions. Physical Review E, 2012, 86, 056317.	2.1	11
140	Chitosan Nanoparticles. , 2012, , 427-433.		0
141	Lattice Boltzmann simulations of pinched flow fractionation. Chemical Engineering Science, 2012, 75, 106-119.	3.8	17
142	Estimation of permeability heterogeneity in limestone outcrop by pressure measurements: Experiments and numerical simulation. Experimental Thermal and Fluid Science, 2012, 40, 177-184.	2.7	8
143	Oxygen plasma assisted end-opening and field emission enhancement in vertically aligned multiwall carbon nanotubes. Materials Chemistry and Physics, 2012, 134, 425-429.	4.0	18
144	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

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145	Thickness dependent electronic structure of ultra-thin tetrahedral amorphous carbon (ta-C) films. Thin Solid Films, 2012, 520, 2909-2915.	1.8	35
146	Particle transport in patterned cylindrical microchannels. Microfluidics and Nanofluidics, 2012, 12, 41-51.	2.2	9
147	A comprehensive theoretical model of capillary transport in rectangular microchannels. Microfluidics and Nanofluidics, 2012, 12, 53-63.	2.2	32
148	Optical measurement of pore scale velocity field inside microporous media. Microfluidics and Nanofluidics, 2012, 12, 189-200.	2.2	34
149	Substrate Effects on the Growth of Multiwalled Carbon Nanotubes by Thermal Chemical Vapor Deposition. Advanced Science Letters, 2012, 7, 21-26.	0.2	1
150	Particle Deposition onto Janus and Patchy Spherical Collectors. Langmuir, 2011, 27, 8787-8797.	3.5	20
151	Reservoir-on-a-Chip (ROC): A new paradigm in reservoir engineering. Lab on A Chip, 2011, 11, 3785.	6.0	170
152	Aerosol penetration in microchannels. Journal of Aerosol Science, 2011, 42, 321-328.	3.8	10
153	Quantification of Microstructural and Transport Properties of Solid Oxide Fuel Cells From Three-Dimensional Physically Realistic Network Structures. , 2011, , .		0
154	Optical Measurement of the Relative Motion of a Spherical Particle in a Micro-Capillary. , 2011, , .		0
155	Structural and surface energy analysis of nitrogenated ta-C films. Thin Solid Films, 2011, 520, 294-301.	1.8	15
156	A comparative study of the growth, microstructural and electrical properties of multiwall CNTs grown by thermal and microwave plasma enhanced CVD methods. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 29-36.	2.7	16
157	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
158	Modified multi-component gas transport formulation with phoretic effects. Microfluidics and Nanofluidics, 2011, 11, 725-742.	2.2	1
159	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
160	Investigation of natural circulation in cavities with uniform heat generation for different Prandtl number fluids. International Journal of Heat and Mass Transfer, 2011, 54, 1465-1474.	4.8	18
161	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
162	Microfluidics for Detection of Myoglobin in Blood Samples. ECS Transactions, 2011, 35, 57-64.	0.5	1

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163	Photonic Crystal Based Biosensor with Built-In Nanofluidics Channels. ECS Transactions, 2011, 35, 91-95.	0.5	5
164	Mass Transport Measurements in Porous Transport Layers of a PEM Fuel Cell. , 2011, , .		3
165	Lattice-Boltzmann Method to Estimate Relative Permeabilities for Matrix-Fracture Interaction in Naturally Fractured Reservoirs. , 2010, , .		3
166	Modeling of Micro Welding Process Using Electron Beam Under High Peclet Number. , 2010, , .		3
167	Pore Scale Simulation of Two-Phase Fluid Flow in Berea Sandstone Core Using Lattice Boltzmann Method. , 2010, , .		0
168	Use of Micro-CT Images to Reconstruct Porous Media for Pore Network Model. , 2010, , .		0
169	Modeling of combined electroosmotic and capillary flow in microchannels. Analytica Chimica Acta, 2010, 663, 117-126.	5.4	31
170	Finite reservoir effect on capillary flow of microbead suspension in rectangular microchannels. Journal of Colloid and Interface Science, 2010, 351, 561-569.	9.4	23
171	Investigation of water and CO2 (carbon dioxide) flooding using micro-CT (micro-computed) Tj ETQq1 1 0.784314 5209-5216.	rgBT /Ov 8.8	erlock 10 Tf 89
172	Investigation of Interstitial Velocity Field Inside Micro-Porous Media. , 2010, , .		3
173	Investigation of Heat Transfer in Microchannels With Asymmetric and Periodic Slip at the Walls. , 2010, , .		0
174	Theoretical investigation of capillary flow under gravity with microbead suspension. , 2010, , .		0
175	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
176	Anodic Growth of Large-Diameter Multipodal TiO ₂ Nanotubes. ACS Nano, 2010, 4, 7421-7430.	14.6	56
177	Experimental and theoretical investigation of capillary flow with BSA and microbead suspensions. Proceedings of SPIE, 2010, , .	0.8	0
178	Contact Angle Hysteresis of Microbead Suspensions. Langmuir, 2010, 26, 17082-17089.	3.5	50
179	Design of an Experimental Setup to Study Mass Transport in Micro-Nano Capillaries and Porous Media. , 2010, , .		1
180	Numerical Modelling of Mass Transfer Through Micro and Nano Capillaries. , 2010, , .		0

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#	Article	IF	CITATIONS
181	Numerical Study of Capillary Flow in Microchannels With Alternate Hydrophilic-Hydrophobic Bottom Wall. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, .	1.5	19
182	Modeling of Dielectrophoresis for Myoglobin Molecules in a Microchannel With Parallel Electrodes. , 2009, , .		2
183	Simulation of Flow Control in Microchannels Using Ferrofluid Plugs. , 2009, , .		1
184	Dielectrophoretic Mixing With Novel Electrode Geometry. , 2009, , .		2
185	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
186	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
187	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
188	A Generalized Analysis of Electroosmotically Driven Capillary Flow in Rectangular Microchannels. , 2009, , .		1
189	Mechanism of Cell Transport in a Microchannel With Binding Between Cell Surface and Immobilized Biomolecules. , 2009, , .		1
190	Fabrication of Dielectrophoretic Microfluidic Device. , 2009, , .		1
191	Study of Natural Convection in Volumetrically Heated Enclosures for Different Aspect Ratios and Prandtl Numbers. , 2009, , .		0
192	Effect of Scaling Parameters on Waterflood Performance with Horizontal and Vertical Wells. Energy & Fuels, 2008, 22, 402-409.	5.1	15
193	Interfacial Flow Visualization in Microfluidic Channels. , 2008, , .		0
194	Simulating Selective Particle Seperation in a Dielectrophoretic Microchannel. , 2008, , .		0
195	Capillary Flow in Microchannel With Pillars. , 2008, , .		0
196	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
197	Experimental and Numerical Investigation of Flashing Driven Natural Circulation System. , 2008, , .		0

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#	Article	IF	CITATIONS
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