

Ali Beskok

List of Publications by Year in descending order

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88
papers

3,667
citations

117625

34
h-index

138484

58
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89
all docs

89
docs citations

89
times ranked

3769
citing authors

#	ARTICLE	IF	CITATIONS
1	A Microfluidic Dielectric Spectroscopy System for Characterization of Biological Cells in Physiological Media. <i>Sensors</i> , 2022, 22, 463.	3.8	4
2	DC electrokinetic motion of colloidal cylinder(s) in the vicinity of a conducting wall. <i>Electrophoresis</i> , 2022, 43, 1263-1274.	2.4	3
3	Surface wettability effects on evaporating meniscus in nanochannels. <i>International Communications in Heat and Mass Transfer</i> , 2022, 136, 106166.	5.6	4
4	Energy-Based Interface Detection for Phase Change Processes of Monatomic Fluids in Nanoconfinements. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8397-8403.	4.6	5
5	Rapid and Sensitive Detection of Nanomolecules by an AC Electrothermal Flow Facilitated Impedance Immunosensor. <i>Analytical Chemistry</i> , 2020, 92, 7762-7769.	6.5	13
6	Water desalination performance of h-BN and optimized charged graphene membranes. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	14
7	Self-Similar Response of Electrode Polarization for Binary Electrolytes in Parallel Plate Capacitor Systems. <i>Analytical Chemistry</i> , 2019, 91, 11231-11239.	6.5	3
8	An extended Kozeny-Carman-Klinkenberg model for gas permeability in micro/nano-porous media. <i>Physics of Fluids</i> , 2019, 31, .	4.0	15
9	The role of water models on the prediction of slip length of water in graphene nanochannels. <i>Journal of Chemical Physics</i> , 2019, 151, 174705.	3.0	25
10	Characterization of Temperature Rise in Alternating Current Electrothermal Flow Using Thermoreflectance Method. <i>Analytical Chemistry</i> , 2019, 91, 12492-12500.	6.5	15
11	Molecular and Continuum Perspectives on Intermediate and Flow Reversal Regimes in Electroosmotic Transport. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14024-14035.	3.1	22
12	Charged nanoporous graphene membranes for water desalination. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9483-9494.	2.8	34
13	Gold nanostructure microelectrode arrays for <i>in vitro</i> recording and stimulation from neuronal networks. <i>Nanotechnology</i> , 2019, 30, 235501.	2.6	13
14	Atomic Scale Interfacial Transport at an Extended Evaporating Meniscus. <i>Langmuir</i> , 2019, 35, 4491-4497.	3.5	22
15	Quantification of Cell Death Using an Impedance-Based Microfluidic Device. <i>Analytical Chemistry</i> , 2019, 91, 4140-4148.	6.5	27
16	Effects of electrode size and surface morphology on electrode polarization in physiological buffers. <i>Electrophoresis</i> , 2019, 40, 766-775.	2.4	12
17	A first look at the performance of nano-grooved heat pipes. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 280-287.	4.8	22
18	Molecular diffusion replaces capillary pumping in phase-change-driven nanopumps. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	11

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19	Self-Similar Interfacial Impedance of Electrodes in High Conductivity Media: II. Disk Electrodes. <i>Analytical Chemistry</i> , 2019, 91, 2455-2463.	6.5	4
20	Molecular and Continuum Transport Perspectives on Electroosmotic Slip Flows. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9699-9709.	3.1	37
21	Changes in the dielectric spectra of murine colon during neoplastic progression. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 035003.	1.2	7
22	Electrical Impedance Measurements of Biological Cells in Response to External Stimuli. <i>Analytical Chemistry</i> , 2018, 90, 4320-4327.	6.5	36
23	Surface charge-dependent transport of water in graphene nano-channels. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	35
24	Saltwater transport through pristine and positively charged graphene membranes. <i>Journal of Chemical Physics</i> , 2018, 149, 024704.	3.0	17
25	Dielectrophoresis assisted loading and unloading of microwells for impedance spectroscopy. <i>Electrophoresis</i> , 2017, 38, 1466-1474.	2.4	22
26	Enhancement of dielectrophoresis using fractal gold nanostructured electrodes. <i>Electrophoresis</i> , 2017, 38, 1458-1465.	2.4	19
27	Temperature profiles and heat fluxes observed in molecular dynamics simulations of force-driven liquid flows. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10317-10325.	2.8	12
28	Electric field controlled transport of water in graphene nano-channels. <i>Journal of Chemical Physics</i> , 2017, 147, 164311.	3.0	36
29	Self-Similar Interfacial Impedance of Electrodes in High Conductivity Media. <i>Analytical Chemistry</i> , 2017, 89, 12533-12540.	6.5	13
30	Pressure-driven water flow through hydrophilic alumina nanomembranes. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	15
31	Accuracy of the Maxwell-Wagner and the Bruggeman-Hanai mixture models for single cell dielectric spectroscopy. <i>IET Nanobiotechnology</i> , 2017, 11, 874-882.	3.8	16
32	Platinum black electrodeposited thread based electrodes for dielectrophoretic assembly of microparticles. <i>Biomicrofluidics</i> , 2016, 10, 033101.	2.4	16
33	A phenomenological continuum model for force-driven nano-channel liquid flows. <i>Journal of Chemical Physics</i> , 2016, 145, 184109.	3.0	38
34	Scale effects in nano-channel liquid flows. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	38
35	Rough Gold Electrodes for Decreasing Impedance at the Electrolyte/Electrode Interface. <i>Electrochimica Acta</i> , 2016, 205, 215-225.	5.2	28
36	Law of the nano-wall in nano-channel gas flows. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	21

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37	10.1063/1.4946015.1., 2016, , .		0
38	Differential dielectric responses of chondrocyte and Jurkat cells in electromanipulation buffers. Electrophoresis, 2015, 36, 1499-1506.	2.4	18
39	Confined chemiluminescence detection of nanomolar levels of H ₂ O ₂ in a paper-based plastic disposable microfluidic device using a smartphone. Analyst, The, 2015, 140, 5006-5011.	3.5	49
40	Flexible Bioimpedance Sensor for Label-Free Detection of Cell Viability and Biomass. IEEE Transactions on Nanobioscience, 2015, 14, 700-706.	3.3	18
41	Molecular free paths in nanoscale gas flows. Microfluidics and Nanofluidics, 2015, 18, 1365-1371.	2.2	30
42	Molecular Dynamics Studies on Nanoscale Gas Transport. , 2015, , 2307-2315.		1
43	Scale effects in gas nano flows. Physics of Fluids, 2014, 26, .	4.0	48
44	Temperature dependence of thermal resistance at the water/silicon interface. International Journal of Thermal Sciences, 2014, 77, 47-54.	4.9	89
45	Size Dependent Surface Charge Properties of Silica Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 1836-1842.	3.1	216
46	Surface Charge of a Nanoparticle Interacting with a Flat Substrate. Journal of Physical Chemistry C, 2014, 118, 10927-10935.	3.1	35
47	Biological Compatibility of Electromanipulation Media. Biophysical Journal, 2014, 106, 811a-812a.	0.5	2
48	Dielectric characterization of costal cartilage chondrocytes. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 146-152.	2.4	17
49	Induced-charge electro-osmosis of polymer-containing fluid around a metallic rod. Microfluidics and Nanofluidics, 2014, 16, 247-255.	2.2	20
50	A separability parameter for dielectrophoretic cell separation. Electrophoresis, 2013, 34, 1051-1058.	2.4	10
51	Wetting characterisation of silicon (1,0,0) surface. Molecular Simulation, 2013, 39, 700-709.	2.0	75
52	Micro-PIV measurements of induced-charge electro-osmosis around a metal rod. Microfluidics and Nanofluidics, 2013, 14, 153-162.	2.2	24
53	Microfluidic impedance spectroscopy as a tool for quantitative biology and biotechnology. Biomicrofluidics, 2012, 6, 34103.	2.4	57
54	Surface-gas interaction effects on nanoscale gas flows. Microfluidics and Nanofluidics, 2012, 13, 789-798.	2.2	43

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55	Boundary treatment effects on molecular dynamics simulations of interface thermal resistance. <i>Journal of Computational Physics</i> , 2012, 231, 7881-7892.	3.8	54
56	Probing nanoparticle interactions in cell culture media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 95, 96-102.	5.0	95
57	Equilibrium molecular dynamics studies on nanoscale-confined fluids. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 269-282.	2.2	77
58	Molecular dynamics simulations of shear-driven gas flows in nano-channels. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 611-622.	2.2	54
59	DC Electrokinetic Particle Transport in an L-Shaped Microchannel. <i>Langmuir</i> , 2010, 26, 2937-2944.	3.5	74
60	Heat transfer enhancement in a slot channel via a transversely oscillating adiabatic circular cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 626-634.	4.8	36
61	Dispersion state and toxicity of mwCNTs in cell culture medium with different T80 concentrations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 78, 36-43.	5.0	16
62	Viscous heating in nanoscale shear driven liquid flows. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 31-40.	2.2	58
63	A low-voltage nano-porous electroosmotic pump. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 465-470.	9.4	50
64	Acoustophoresis in shallow microchannels. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 407-414.	9.4	33
65	Modeling electrokinetic flows by the smoothed profile method. <i>Journal of Computational Physics</i> , 2010, 229, 3828-3847.	3.8	27
66	An algebraic factorisation scheme for spectral element solution of incompressible flow and scalar transport. <i>International Journal of Computational Fluid Dynamics</i> , 2010, 24, 95-108.	1.2	9
67	Numerical Modeling of Chaotic Mixing in Electroosmotically Stirred Continuous Flow Mixers. <i>Journal of Heat Transfer</i> , 2009, 131, .	2.1	11
68	Particle Trapping in High-Conductivity Media with Electrothermally Enhanced Negative Dielectrophoresis. <i>Analytical Chemistry</i> , 2009, 81, 2303-2310.	6.5	78
69	Zeta Potential of Selected Bacteria in Drinking Water When Dead, Starved, or Exposed to Minimal and Rich Culture Media. <i>Current Microbiology</i> , 2008, 56, 93-97.	2.2	120
70	Thermal interactions in nanoscale fluid flow: molecular dynamics simulations with solid-liquid interfaces. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 551-559.	2.2	92
71	Molecular dynamics simulations of thermal resistance at the liquid-solid interface. <i>Journal of Chemical Physics</i> , 2008, 129, 174701.	3.0	146
72	Alternating Current Electrokinetic Motion of Colloidal Particles on Interdigitated Microelectrodes. <i>Analytical Chemistry</i> , 2008, 80, 2832-2841.	6.5	46

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73	Flow past an oscillating circular cylinder in a channel with an upstream splitter plate. <i>Physics of Fluids</i> , 2008, 20, .	4.0	21
74	In situ analysis of bacterial capture in a microfluidic channel. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1467-1478.	2.6	8
75	Quantification of chaotic strength and mixing in a micro fluidic system. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 2197-2210.	2.6	42
76	Colloidal microstructures, transport, and impedance properties within interfacial microelectrodes. <i>Applied Physics Letters</i> , 2007, 90, 224102.	3.3	18
77	A microfluidic device for continuous capture and concentration of microorganisms from potable water. <i>Lab on A Chip</i> , 2007, 7, 1315.	6.0	47
78	Numerical Simulations of Peristaltic Mixing. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007, 129, 1361-1371.	1.5	12
79	Spectral element formulations on non-conforming grids: A comparative study of pointwise matching and integral projection methods. <i>Journal of Computational Physics</i> , 2006, 211, 300-325.	3.8	13
80	Generating fixed concentration arrays in a microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 199-207.	7.8	141
81	A phenomenological lubrication model for the entire Knudsen regime. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 873-884.	2.6	60
82	Microfluidic diffusion diluter: bulging of PDMS microchannels under pressure-driven flow*. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 412-418.	2.6	62
83	Rarefaction, Compressibility, and Viscous Heating in Gas Microfilters. <i>Journal of Thermophysics and Heat Transfer</i> , 2002, 16, 161-170.	1.6	18
84	Analytical Solution of Time Periodic Electroosmotic Flows: Analogies to Stokes' Second Problem. <i>Analytical Chemistry</i> , 2001, 73, 5097-5102.	6.5	174
85	Analytical Solution of Combined Electroosmotic/Pressure Driven Flows in Two-Dimensional Straight Channels: Finite Debye Layer Effects. <i>Analytical Chemistry</i> , 2001, 73, 1979-1986.	6.5	257
86	VALIDATION OF A NEW VELOCITY-SLIP MODEL FOR SEPARATED GAS MICROFLOWS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2001, 40, 451-471.	0.9	59
87	An Unstructured hp Finite-Element Scheme for Fluid Flow and Heat Transfer in Moving Domains. <i>Journal of Computational Physics</i> , 2001, 174, 492-509.	3.8	26
88	Simulation of heat and momentum transfer in complex microgeometries. <i>Journal of Thermophysics and Heat Transfer</i> , 1994, 8, 647-655.	1.6	205