Murat Barisik

List of Publications by Year
in descending order

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48 papers	1,426 citations	331670 21 h-index	330143 37 g-index
48 all docs	48 docs citations	48 times ranked	1314 citing authors

#	Article	IF	Citations
1	Thermal and hydrodynamic behavior of forced convection gaseous slip flow in a Kelvin cell metal foam. International Communications in Heat and Mass Transfer, 2022, 131, 105838.	5.6	8
2	Active heat transfer enhancement by interface-localized liquid dielectrophoresis using interdigitated electrodes. Carbon, 2022, 189, 339-348.	10.3	3
3	Local Heat Transfer Control using Liquid Dielectrophoresis at Graphene/Water Interfaces. International Journal of Heat and Mass Transfer, 2021, 166, 120801.	4.8	3
4	Size and roughness dependent temperature effects on surface charge of silica nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127407.	4.7	1
5	Parametrizing nonbonded interactions between silica and water from first principles. Applied Surface Science, 2020, 504, 144359.	6.1	7
6	Wetting of single crystalline and amorphous silicon surfaces: effective range of intermolecular forces for wetting. Molecular Simulation, 2020, 46, 224-234.	2.0	11
7	Size dependent influence of contact line pinning on wetting of nano-textured/patterned silica surfaces. Nanoscale, 2020, 12, 21376-21391.	5.6	11
8	Slip Effects on Ionic Current of Viscoelectric Electroviscous Flows through Different Length Nanofluidic Channels. Langmuir, 2020, 36, 9191-9203.	3.5	10
9	Pore Size and Porosity Dependent Zeta Potentials of Mesoporous Silica Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 19579-19587.	3.1	17
10	Roughness Effects on the Surface Charge Properties of Silica Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 7274-7286.	3.1	38
11	An extended Kozeny-Carman-Klinkenberg model for gas permeability in micro/nano-porous media. Physics of Fluids, 2019, 31, .	4.0	15
12	Pore connectivity effects on the internal surface electric charge of mesoporous silica. Colloid and Polymer Science, 2019, 297, 1365-1373.	2.1	9
13	Effect of nano-film thickness on thermal resistance at water/silicon interface. International Journal of Heat and Mass Transfer, 2019, 134, 634-640.	4.8	18
14	Internal surface electric charge characterization of mesoporous silica. Scientific Reports, 2019, 9, 137.	3.3	19
15	Electric Field Controlled Heat Transfer Through Silicon and Nano-confined Water. Nanoscale and Microscale Thermophysical Engineering, 2019, 23, 304-316.	2.6	9
16	Electric charge of nanopatterned silica surfaces. Physical Chemistry Chemical Physics, 2019, 21, 7576-7587.	2.8	20
17	Surface charge-dependent transport of water in graphene nano-channels. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	35
18	Numerical determination of interfacial heat transfer coefficient for an aligned dual scale porous medium. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2716-2733.	2.8	10

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19	Size dependent surface charge properties of silica nano-channels: double layer overlap and inlet/outlet effects. Physical Chemistry Chemical Physics, 2018, 20, 16719-16728.	2.8	14
20	Wetting of chemically heterogeneous striped surfaces: Molecular dynamics simulations. AIP Advances, 2018, 8, .	1.3	33
21	silika yÃ¼zeylerin Ä±slanma hareketlerinin molekÃ¼ler dinamik ile modellenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2018, 33, .	0.8	0
22	Electric field controlled transport of water in graphene nano-channels. Journal of Chemical Physics, 2017, 147, 164311.	3.0	36
23	Analytical solution of micro-/nanoscale convective liquid flows in tubes and slits. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	2
24	Atomic density effects on temperature characteristics and thermal transport at grain boundaries through a proper bin size selection. Journal of Chemical Physics, 2016, 144, 194707.	3.0	18
25	Interfacial thermal resistance between the graphene-coated copper and liquid water. International Journal of Heat and Mass Transfer, 2016, 97, 422-431.	4.8	44
26	The extended Graetz problem for micro-slit geometries; analytical coupling of rarefaction, axial conduction and viscous dissipation. International Journal of Thermal Sciences, 2016, 110, 261-269.	4.9	11
27	â€œLaw of the nano-wallâ€•in nano-channel gas flows. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	21
28	Interface Resistance and Thermal Transport in Nano-Confined Liquids. , 2016, , 1-25.		0
29	Near-surface viscosity effects on capillary rise of water in nanotubes. Physical Review E, 2015, 92, 053009.	2.1	62
30	Analytical solution of thermally developing microtube heat transfer including axial conduction, viscous dissipation, and rarefaction effects. International Communications in Heat and Mass Transfer, 2015, 67, 81-88.	5.6	25
31	Molecular free paths in nanoscale gas flows. Microfluidics and Nanofluidics, 2015, 18, 1365-1371.	2.2	30
32	Molecular Dynamics Studies on Nanoscale Gas Transport. , 2015, , 2307-2315.		1
33	Scale effects in gas nano flows. Physics of Fluids, 2014, 26, .	4.0	48
34	Temperature dependence of thermal resistance at the water/silicon interface. International Journal of Thermal Sciences, 2014, 77, 47-54.	4.9	89
35	Molecular dynamics simulations of Kapitza length for argon-silicon and water-silicon interfaces. International Journal of Precision Engineering and Manufacturing, 2014, 15, 323-329.	2.2	45
36	Size Dependent Surface Charge Properties of Silica Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 1836-1842.	3.1	216

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37	Surface Charge of a Nanoparticle Interacting with a Flat Substrate. Journal of Physical Chemistry C, 2014, 118, 10927-10935.	3.1	35
38	Molecular Dynamics Studies on Nanoscale Gas Transport. , 2014, , 1-9.		0
39	Pressure dependence of Kapitza resistance at gold/water and silicon/water interfaces. Journal of Chemical Physics, 2013, 139, 244702.	3.0	73
40	Wetting characterisation of silicon (1,0,0) surface. Molecular Simulation, 2013, 39, 700-709.	2.0	75
41	Heat Conduction and Interface Thermal Resistance in Liquid Argon Filled Silver and Graphite Nanochannels. , 2012, , .		0
42	Surfaceâ€“gas interaction effects on nanoscale gas flows. Microfluidics and Nanofluidics, 2012, 13, 789-798.	2.2	43
43	Molecular dynamics modeling of thermal resistance at argon-graphite and argon-silver interfaces. International Journal of Thermal Sciences, 2012, 59, 29-37.	4.9	43
44	Boundary treatment effects on molecular dynamics simulations of interface thermal resistance. Journal of Computational Physics, 2012, 231, 7881-7892.	3.8	54
45	Equilibrium molecular dynamics studies on nanoscale-confined fluids. Microfluidics and Nanofluidics, 2011, 11, 269-282.	2.2	77
46	Molecular dynamics simulations of shear-driven gas flows in nano-channels. Microfluidics and Nanofluidics, 2011, 11, 611-622.	2.2	54
47	MD Simulations of Nano-Scale Gas Flows: A Case Study of Couette Flow at Knâ€‰=â€‰10. AIP Conference Proceedings, 2011, , .	0.4	4
48	Smart Wall Model for Molecular Dynamics Simulations of Nanoscale Gas Flows. Communications in Computational Physics, 2010, 7, 977-993.	1.7	29