Ali Borhan

List of Publications by Year
in descending order

32	569	567144 15	610775 24
papers	citations	h-index	g-index

33	33	33	712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of Hierarchical Surface Roughness on Droplet Contact Angle. Langmuir, 2015, 31, 6752-6762.	1.6	95
2	Effect of surfactants on the motion of drops through circular tubes. Physics of Fluids A, Fluid Dynamics, 1992, 4, 2628-2640.	1.6	55
3	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. Angewandte Chemie - International Edition, 2017, 56, 7817-7821.	7.2	55
4	Chiral diffusion of rotary nanomotors. Physical Review E, 2013, 87, 050301.	0.8	29
5	Locomotion of microorganisms near a no-slip boundary in a viscoelastic fluid. Physical Review E, 2014, 90, 043002.	0.8	29
6	A general flux-based analysis for spherical electrocatalytic nanomotors. Physics of Fluids, 2015, 27, .	1.6	28
7	Conducting Polymer Microcups for Organic Bioelectronics and Drug Delivery Applications. Advanced Materials, 2017, 29, 1702576.	11.1	28
8	Self-electrophoresis of spheroidal electrocatalytic swimmers. Physics of Fluids, 2015, 27, .	1.6	25
9	Stability of the shape of a surfactant-laden drop translating at low Reynolds number. Physics of Fluids, 2000, 12, 773-784.	1.6	22
10	THERMOCAPILLARY MIGRATION OF SLIGHTLY DEFORMED DROPLETS. Particulate Science and Technology, 1990, 8, 191-198.	1.1	21
11	A Volume-Corrected Wenzel Model. ACS Omega, 2020, 5, 8875-8884.	1.6	21
12	Nanomotor mechanisms and motive force distributions from nanorotor trajectories. Physical Review E, 2013, 88, 062317.	0.8	20
13	Effect of a planar interface on time-averaged locomotion of a spherical squirmer in a viscoelastic fluid. Physics of Fluids, 2017, 29, .	1.6	17
14	Three-Dimensional Simulations of Reactive Gas Uptake in Single Airway Bifurcations. Annals of Biomedical Engineering, 2007, 35, 235-249.	1.3	16
15	Coarse-Grained Interaction of a Fluid withÂaÂPhysically-Patterned Solid Surface: Application to Nanodroplet Wetting. Journal of Low Temperature Physics, 2009, 157, 277-295.	0.6	16
16	Kinematic matrix theory and universalities in self-propellers and active swimmers. Physical Review E, 2014, 89, 062304.	0.8	16
17	Chemically Controlled Spatiotemporal Oscillations of Colloidal Assemblies. Angewandte Chemie, 2017, 129, 7925-7929.	1.6	12
18	Effect of Gravity on the Configuration of Droplets on Two-Dimensional Physically Patterned Surfaces. Langmuir, 2016, 32, 3858-3866.	1.6	11

#	Article	IF	Citations
19	Confined drop motion in viscoelastic two-phase systems. Physics of Fluids, 2009, 21, .	1.6	9
20	Photothermal Atomic Force Microscopy Coupled with Infrared Spectroscopy (AFM-IR) Analysis of High Extinction Coefficient Materials: A Case Study with Silica and Silicate Glasses. Analytical Chemistry, 2022, 94, 5231-5239.	3.2	8
21	Shear-induced unidirectional deposition of bacterial cellulose microfibrils using rising bubble stream cultivation. Carbohydrate Polymers, 2021, 255, 117328.	5.1	7
22	Flow and residence time distribution in small-scale dual-layer depth filter capsules. Journal of Membrane Science, 2021, 617, 118625.	4.1	7
23	An Axisymmetric Single-Path Model for Gas Transport in the Conducting Airways. Journal of Biomechanical Engineering, 2006, 128, 69-75.	0.6	6
24	Quantitative interpretation of protein breakthrough curves in small-scale depth filter modules for bioprocessing. Journal of Membrane Science, 2021, 627, 119217.	4.1	6
25	Ozone uptake during inspiratory flow in a model of the larynx, trachea and primary bronchial bifurcation. Chemical Engineering Science, 2009, 64, 4640-4648.	1.9	4
26	Comparison of Axisymmetric and Three-Dimensional Models for Gas Uptake in a Single Bifurcation During Steady Expiration. Journal of Biomechanical Engineering, 2008, 130, 011013.	0.6	3
27	An approximate analytical approach to estimate the diffusivity of toxic chemicals in polymer barrier materials from the time evolution of sessile drop profiles. Polymer Bulletin, 2019, 76, 339-364.	1.7	1
28	A patient-specific model of reactive air pollutant uptake in proximal airways of the lung: Effect of tracheal deviation. Applied Mathematical Modelling, 2021, 91, 58-73.	2.2	1
29	Prediction of hot spots of ozone flux in a Rhesus monkey lung during steady inspiratory flow. , 2012, , .		0
30	Coalescence of viscous drops translating through a capillary tube. Heat and Mass Transfer, 2014, 50, 341-350.	1.2	0
31	Neural Devices: Conducting Polymer Microcups for Organic Bioelectronics and Drug Delivery Applications (Adv. Mater. 39/2017). Advanced Materials, 2017, 29, .	11.1	0
32	Scaleâ€up issues for commercial depth filters in bioprocessing. Biotechnology and Bioengineering, 2022, , .	1.7	0