

Joontaek Park

List of Publications by Year in descending order

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17
papers

241
citations

933447

10
h-index

940533

16
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17
all docs

17
docs citations

17
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhomogeneous distribution of a rigid fibre undergoing rectilinear flow between parallel walls at high Peclet numbers. <i>Journal of Fluid Mechanics</i> , 2009, 630, 267-298.	3.4	26
2	Stochastic simulation of entangled polymeric liquids in fast flows: Microstructure modification. <i>Journal of Rheology</i> , 2012, 56, 1057-1081.	2.6	23
3	Synthesis and characterization of elution behavior of nonspherical gold nanoparticles in asymmetrical flow field-flow fractionation (AsFFFF). <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	23
4	Numerical Study on the Temperature-Dependent Viscosity Effect on the Strand Shape in Extrusion-Based Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 46.	2.2	22
5	A cloud of rigid fibres sedimenting in a viscous fluid. <i>Journal of Fluid Mechanics</i> , 2010, 648, 351-362.	3.4	21
6	Shape-based separation of micro-/nanoparticles in liquid phases. <i>Biomicrofluidics</i> , 2018, 12, 051503.	2.4	20
7	Cross-stream migration in dilute solutions of rigid polymers undergoing rectilinear flow near a wall. <i>Physical Review E</i> , 2007, 76, 040801.	2.1	18
8	Analysis of the Migration of Rigid Polymers and Nanorods in a Rotating Viscometric Flow. <i>Macromolecules</i> , 2010, 43, 2535-2543.	4.8	18
9	Theoretical analysis of the local orientation effect and the lift-induced hyperlayer mode of rodlike particles in field-flow fractionation. <i>Journal of Separation Science</i> , 2014, 37, 876-883.	2.5	17
10	Modeling and simulation of biopolymer networks: Classification of the cytoskeleton models according to multiple scales. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1207-1217.	2.7	12
11	The Effect of Weak Confinement on the Orientation of Nanorods under Shear Flows. <i>Nanomaterials</i> , 2018, 8, 130.	4.1	10
12	An Improved Model for the Steric-Entropic Effect on the Retention of Rod-like Particles in Field-Flow Fractionation: Discussion of Aspect Ratio-Based Separation. <i>Chromatography (Basel)</i> , 2015, 2, 472-487.	1.2	9
13	Polyaniline membranes for nanofiltration of solvent from dewaxed lube oil. <i>Separation Science and Technology</i> , 2019, 54, 795-802.	2.5	7
14	Direct numerical simulation of microbubble streaming in a microfluidic device: The effect of the bubble protrusion depth on the vortex pattern. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 2117-2123.	2.7	7
15	A model for the depletion layer prediction in a dilute suspension of rigid rod-like particles under shear flows in the entire range of Peclet numbers. <i>Chemical Engineering Science</i> , 2018, 189, 394-400.	3.8	3
16	The shape effect on the retention behaviors of ellipsoidal particles in field-flow fractionation: Theoretical model derivation considering the steric-entropic mode. <i>Journal of Chromatography A</i> , 2019, 1587, 189-196.	3.7	3
17	Computational Studies of DNA Separations in Micro-Fabricated Devices: Review of General Approaches and Recent Applications. <i>Advances in Chemical Engineering and Science</i> , 2017, 07, 362-392.	0.5	2