Tae Gon Kang

List of Publications by Year
in descending order

42 papers	1,193 citations	516561 16 h-index	377752 34 g-index
44 all docs	44 docs citations	44 times ranked	1226 citing authors

#	Article	IF	Citations
1	Facile Preparation of Nanoparticles by Intramolecular Cross-Linking of Isocyanate Functionalized Copolymers. Macromolecules, 2009, 42, 5629-5635.	2.2	166
2	Colored particle tracking method for mixing analysis of chaotic micromixers. Journal of Micromechanics and Microengineering, 2004, 14, 891-899.	1.5	125
3	Facile access to internally functionalized dendrimers through efficient and orthogonal click reactions. Chemical Communications, 2010, 46, 1556.	2.2	94
4	Chaotic mixing induced by a magnetic chain in a rotating magnetic field. Physical Review E, 2007, 76, 066303.	0.8	87
5	Numerical and experimental study of a rotating magnetic particle chain in a viscous fluid. Physical Review E, 2012, 86, 041503.	0.8	87
6	Passive and Active Mixing in Microfluidic Devices. Macromolecular Symposia, 2009, 279, 201-209.	0.4	65
7	Chaotic mixing using periodic and aperiodic sequences of mixing protocols in a micromixer. Microfluidics and Nanofluidics, 2008, 4, 589-599.	1.0	63
8	The mapping method as a toolbox to analyze, design, and optimize micromixers. Microfluidics and Nanofluidics, 2008, 5, 313-325.	1.0	56
9	A chaotic serpentine mixer efficient in the creeping flow regime: from design concept to optimization. Microfluidics and Nanofluidics, 2009, 7, 783.	1.0	52
10	Improved serpentine laminating micromixer with enhanced local advection. Microfluidics and Nanofluidics, 2008, 4, 513-523.	1.0	51
11	A direct simulation method for flows with suspended paramagnetic particles. Journal of Computational Physics, 2008, 227, 4441-4458.	1.9	50
12	Chaotic advection using passive and externally actuated particles in a serpentine channel flow. Chemical Engineering Science, 2007, 62, 6677-6686.	1.9	29
13	Dynamics of magnetic chains in a shear flow under the influence of a uniform magnetic field. Physics of Fluids, 2012, 24, .	1.6	28
14	Analysis and optimization of lowâ€pressure drop static mixers. AICHE Journal, 2009, 55, 2208-2216.	1.8	26
15	The Effect of Inertia on the Flow and Mixing Characteristics of a Chaotic Serpentine Mixer. Micromachines, 2014, 5, 1270-1286.	1.4	18
16	Direct simulation of the dynamics of two spherical particles actuated magnetically in a viscous fluid. Computers and Fluids, 2013, 86, 569-581.	1.3	17
17	Experimental and numerical investigation of injection molding with microrib patterns. Polymer Engineering and Science, 2010, 50, 1186-1198.	1.5	16
18	Particle size effect on the magneto-rheological behavior of powder injection molding feedstock. Materials Characterization, 2014, 94, 19-25.	1.9	15

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19	Rheological modeling of strontium ferrite feedstock for magnetic powder injection molding. Powder Technology, 2014, 262, 198-202.	2.1	15
20	Chaotic mixing in a barrierâ€embedded partitioned pipe mixer. AICHE Journal, 2018, 64, 717-729.	1.8	15
21	Imbalance filling of multi-cavity tooling during powder injection molding. Powder Technology, 2014, 257, 124-131.	2.1	12
22	Design Optimization for a Microfluidic Crossflow Filtration System Incorporating a Micromixer. Micromachines, 2019, 10, 836.	1.4	11
23	Rheological behavior of magnetic powder mixtures for magnetic PIM. Korea Australia Rheology Journal, 2012, 24, 121-127.	0.7	10
24	Numerical Investigation of Hot Embossing Filling Characteristics. International Polymer Processing, 2007, 22, 266-275.	0.3	10
25	Threeâ€dimensional numerical analysis of injectionâ€compression molding process. Polymer Engineering and Science, 2012, 52, 901-911.	1.5	9
26	Fouling mitigation in crossflow filtration using chaotic advection: A numerical study. AICHE Journal, 2020, 66, e16792.	1.8	9
27	Magneto-rheological model for computational analysis of magnetic micro powder injection molding. Computational Materials Science, 2015, 100, 39-44.	1.4	8
28	Experimental and Numerical Analysis of Injection Molding of Ti-6Al-4V Powders for High-Performance Titanium Parts. Jom, 2018, 70, 621-625.	0.9	8
29	Numerical study on the mixing in a barrier-embedded partitioned pipe mixer (BPPM) for non-creeping flow conditions. Korea Australia Rheology Journal, 2018, 30, 227-238.	0.7	8
30	Numerical simulation of hot embossing filling stage using a viscoelastic constitutive model. Korea Australia Rheology Journal, 2011, 23, 139-146.	0.7	6
31	Numerical simulation and channel configuration design for a negative dielectrophoresis based high efficiency cell sorting platform. Journal of Mechanical Science and Technology, 2014, 28, 4673-4679.	0.7	5
32	Flow and mixing characteristics of a groove-embedded partitioned pipe mixer. Korea Australia Rheology Journal, 2020, 32, 319-329.	0.7	5
33	Magnetic interaction of Janus magnetic particles suspended in a viscous fluid. Physical Review E, 2016, 93, 022607.	0.8	4
34	Fouling Mitigation via Chaotic Advection in a Flat Membrane Module with a Patterned Surface. Membranes, 2021, 11, 724.	1.4	4
35	Flow and mixing analysis of a thixotropic fluid in a barrier-embedded partitioned pipe mixer (BPPM): A numerical study. International Journal of Heat and Mass Transfer, 2022, 184, 122310.	2.5	4
36	Numerical investigation of the dynamics of Janus magnetic particles in a rotating magnetic field. Korea Australia Rheology Journal, 2017, 29, 17-27.	0.7	3

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37	Modeling of magnetic particle orientation in magnetic powder injection molding. Journal Physics D: Applied Physics, 2018, 51, 115002.	1.3	2
38	Improved Serpentine Laminating Micromixer: Numerical Investigation and Experimental Verification. , 2007, , 725.		0
39	Visualization of turbid two-fluid flows inside microfluidic conduits. , 2007, , .		0
40	Numerical Study on Mixing in a Chaotic Serpentine Mixer Using a Mapping Method. , 2009, , .		0
41	Dynamics of Elliptic Magnetic Particles in Simple Shear Flow. , 2011, , .		0
42	Powder Injection Molding of Ti-6Al-4V Alloy for Defect-Free High Performance Titanium Parts with Low Carbon/Oxygen Contents. Key Engineering Materials, 2018, 770, 189-194.	0.4	0