

Tae Gon Kang

List of Publications by Year in descending order

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42
papers

1,193
citations

516215

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377514

34
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all docs

44
docs citations

44
times ranked

1226
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow and mixing analysis of a thixotropic fluid in a barrier-embedded partitioned pipe mixer (BPPM): A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122310.	2.5	4
2	Fouling Mitigation via Chaotic Advection in a Flat Membrane Module with a Patterned Surface. <i>Membranes</i> , 2021, 11, 724.	1.4	4
3	Fouling mitigation in crossflow filtration using chaotic advection: A numerical study. <i>AIChE Journal</i> , 2020, 66, e16792.	1.8	9
4	Flow and mixing characteristics of a groove-embedded partitioned pipe mixer. <i>Korea Australia Rheology Journal</i> , 2020, 32, 319-329.	0.7	5
5	Design Optimization for a Microfluidic Crossflow Filtration System Incorporating a Micromixer. <i>Micromachines</i> , 2019, 10, 836.	1.4	11
6	Experimental and Numerical Analysis of Injection Molding of Ti-6Al-4V Powders for High-Performance Titanium Parts. <i>Jom</i> , 2018, 70, 621-625.	0.9	8
7	Modeling of magnetic particle orientation in magnetic powder injection molding. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 115002.	1.3	2
8	Chaotic mixing in a barrier-embedded partitioned pipe mixer. <i>AIChE Journal</i> , 2018, 64, 717-729.	1.8	15
9	Numerical study on the mixing in a barrier-embedded partitioned pipe mixer (BPPM) for non-creeping flow conditions. <i>Korea Australia Rheology Journal</i> , 2018, 30, 227-238.	0.7	8
10	Powder Injection Molding of Ti-6Al-4V Alloy for Defect-Free High Performance Titanium Parts with Low Carbon/Oxygen Contents. <i>Key Engineering Materials</i> , 2018, 770, 189-194.	0.4	0
11	Numerical investigation of the dynamics of Janus magnetic particles in a rotating magnetic field. <i>Korea Australia Rheology Journal</i> , 2017, 29, 17-27.	0.7	3
12	Magnetic interaction of Janus magnetic particles suspended in a viscous fluid. <i>Physical Review E</i> , 2016, 93, 022607.	0.8	4
13	Magneto-rheological model for computational analysis of magnetic micro powder injection molding. <i>Computational Materials Science</i> , 2015, 100, 39-44.	1.4	8
14	The Effect of Inertia on the Flow and Mixing Characteristics of a Chaotic Serpentine Mixer. <i>Micromachines</i> , 2014, 5, 1270-1286.	1.4	18
15	Numerical simulation and channel configuration design for a negative dielectrophoresis based high efficiency cell sorting platform. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4673-4679.	0.7	5
16	Particle size effect on the magneto-rheological behavior of powder injection molding feedstock. <i>Materials Characterization</i> , 2014, 94, 19-25.	1.9	15
17	Imbalance filling of multi-cavity tooling during powder injection molding. <i>Powder Technology</i> , 2014, 257, 124-131.	2.1	12
18	Rheological modeling of strontium ferrite feedstock for magnetic powder injection molding. <i>Powder Technology</i> , 2014, 262, 198-202.	2.1	15

#	ARTICLE	IF	CITATIONS
19	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
20	Numerical and experimental study of a rotating magnetic particle chain in a viscous fluid. Physical Review E, 2012, 86, 041503.	0.8	87
21	Dynamics of magnetic chains in a shear flow under the influence of a uniform magnetic field. Physics of Fluids, 2012, 24, .	1.6	28
22	Three-dimensional numerical analysis of injection-compression molding process. Polymer Engineering and Science, 2012, 52, 901-911.	1.5	9
23	Rheological behavior of magnetic powder mixtures for magnetic PIM. Korea Australia Rheology Journal, 2012, 24, 121-127.	0.7	10
24	Dynamics of Elliptic Magnetic Particles in Simple Shear Flow. , 2011, , .		0
25	Numerical simulation of hot embossing filling stage using a viscoelastic constitutive model. Korea Australia Rheology Journal, 2011, 23, 139-146.	0.7	6
26	Experimental and numerical investigation of injection molding with microrib patterns. Polymer Engineering and Science, 2010, 50, 1186-1198.	1.5	16
27	Facile access to internally functionalized dendrimers through efficient and orthogonal click reactions. Chemical Communications, 2010, 46, 1556.	2.2	94
28	Analysis and optimization of low-pressure drop static mixers. AIChE Journal, 2009, 55, 2208-2216.	1.8	26
29	A chaotic serpentine mixer efficient in the creeping flow regime: from design concept to optimization. Microfluidics and Nanofluidics, 2009, 7, 783.	1.0	52
30	Facile Preparation of Nanoparticles by Intramolecular Cross-Linking of Isocyanate Functionalized Copolymers. Macromolecules, 2009, 42, 5629-5635.	2.2	166
31	Passive and Active Mixing in Microfluidic Devices. Macromolecular Symposia, 2009, 279, 201-209.	0.4	65
32	Numerical Study on Mixing in a Chaotic Serpentine Mixer Using a Mapping Method. , 2009, , .		0
33	Chaotic mixing using periodic and aperiodic sequences of mixing protocols in a micromixer. Microfluidics and Nanofluidics, 2008, 4, 589-599.	1.0	63
34	Improved serpentine laminating micromixer with enhanced local advection. Microfluidics and Nanofluidics, 2008, 4, 513-523.	1.0	51
35	The mapping method as a toolbox to analyze, design, and optimize micromixers. Microfluidics and Nanofluidics, 2008, 5, 313-325.	1.0	56
36	A direct simulation method for flows with suspended paramagnetic particles. Journal of Computational Physics, 2008, 227, 4441-4458.	1.9	50

#	ARTICLE	IF	CITATIONS
37	Improved Serpentine Laminating Micromixer: Numerical Investigation and Experimental Verification. , 2007, , 725.		0
38	Visualization of turbid two-fluid flows inside microfluidic conduits. , 2007, , .		0
39	Chaotic mixing induced by a magnetic chain in a rotating magnetic field. Physical Review E, 2007, 76, 066303.	0.8	87
40	Chaotic advection using passive and externally actuated particles in a serpentine channel flow. Chemical Engineering Science, 2007, 62, 6677-6686.	1.9	29
41	Numerical Investigation of Hot Embossing Filling Characteristics. International Polymer Processing, 2007, 22, 266-275.	0.3	10
42	Colored particle tracking method for mixing analysis of chaotic micromixers. Journal of Micromechanics and Microengineering, 2004, 14, 891-899.	1.5	125