

James F Gilchrist

List of Publications by Year in descending order

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38
papers

1,443
citations

567144

15
h-index

434063

31
g-index

38
all docs

38
docs citations

38
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of substrate thermal conductivity and vapor pressure in dropwise condensation. <i>Applied Thermal Engineering</i> , 2020, 178, 115529.	3.0	7
2	Chemical vs. mechanical microstructure evolution in drying colloid and polymer coatings. <i>Scientific Reports</i> , 2020, 10, 10264.	1.6	9
3	Effect of added surfactant on convective assembly of monosized microspheres. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	3
4	Frequency Response of Induced-Charge Electrophoretic Metallic Janus Particles. <i>Micromachines</i> , 2020, 11, 334.	1.4	13
5	Heterogeneity, suspension, and yielding in sparse microfibrillar cellulose gels 2: strain rate-dependent two-fluid behavior. <i>Rheologica Acta</i> , 2019, 58, 231-239.	1.1	6
6	Heterogeneity, suspension, and yielding in sparse microfibrillar cellulose gels 1. Bubble rheometer studies. <i>Rheologica Acta</i> , 2019, 58, 217-229.	1.1	13
7	The effect of inorganic and organic nucleating agents on the electrical breakdown strength of polyethylene. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46325.	1.3	14
8	Estimation of drying length during particle assembly by convective deposition. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 222-227.	5.0	12
9	Uniformly spaced nanoscale cracks in nanoparticle films deposited by convective assembly. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 80-87.	5.0	5
10	Nucleating agents for high-density polyethylene-A review. <i>Polymer Engineering and Science</i> , 2016, 56, 541-554.	1.5	64
11	Large-Area Nanoparticle Films by Continuous Automated Langmuir-Blodgett Assembly and Deposition. <i>Langmuir</i> , 2016, 32, 1220-1226.	1.6	46
12	Flow-induced alignment of (100) fcc thin film colloidal crystals. <i>Soft Matter</i> , 2015, 11, 7092-7100.	1.2	12
13	Effect of Ionic Strength and Surface Charge on Convective Deposition. <i>Langmuir</i> , 2015, 31, 12348-12353.	1.6	15
14	Spacing of Seeded and Spontaneous Streaks during Convective Deposition. <i>Langmuir</i> , 2015, 31, 10935-10938.	1.6	9
15	Microstructure of sheared monosized colloidal suspensions resulting from hydrodynamic and electrostatic interactions. <i>Journal of Chemical Physics</i> , 2014, 140, 204903.	1.2	18
16	Tracking the fate of seed particles in dispersion polymerization: Preparation and application of fluorescent polymer particles. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2635-2640.	1.3	5
17	Enhanced colloidal monolayer assembly via vibration-assisted convective deposition. <i>Applied Physics Letters</i> , 2013, 103, 181603.	1.5	37
18	Light Extraction Efficiency Enhancement of III-Nitride Light-Emitting Diodes by Using 2-D Close-Packed TiO_2 Microsphere Arrays. <i>Journal of Display Technology</i> , 2013, 9, 324-332.	1.3	86

#	ARTICLE	IF	CITATIONS
19	Fabrication of Macroporous Polymeric Membranes through Binary Convective Deposition. ACS Applied Materials & Interfaces, 2012, 4, 4532-4540.	4.0	13
20	Effect of Surface Nanotopography on Immunoaffinity Cell Capture in Microfluidic Devices. Langmuir, 2011, 27, 11229-11237.	1.6	33
21	Light Extraction Efficiency and Radiation Patterns of III-Nitride Light-Emitting Diodes With Colloidal Microlens Arrays With Various Aspect Ratios. IEEE Photonics Journal, 2011, 3, 489-499.	1.0	196
22	Matching Constituent Fluxes for Convective Deposition of Binary Suspensions. Langmuir, 2010, 26, 2401-2405.	1.6	24
23	Self-assembly of wires in acrylate monomer via nanoparticle dielectrophoresis. Journal Physics D: Applied Physics, 2010, 43, 045402.	1.3	10
24	Optimization of Light Extraction Efficiency of III-Nitride LEDs With Self-Assembled Colloidal-Based Microlenses. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1218-1225.	1.9	120
25	Transitions to vibro-fluidization in a deep granular bed. Powder Technology, 2009, 192, 33-39.	2.1	13
26	Light extraction efficiency enhancement of InGaN quantum wells light-emitting diodes with polydimethylsiloxane concave microstructures. Optics Express, 2009, 17, 13747.	1.7	125
27	Effect of Nanoparticle Concentration on the Convective Deposition of Binary Suspensions. Langmuir, 2009, 25, 6070-6075.	1.6	49
28	Enhancement of light extraction efficiency of InGaN quantum well light-emitting diodes with polydimethylsiloxane concave microstructures. , 2009, , .		5
29	The Use of Polydimethylsiloxane Concave Microstructures Arrays to Enhance Light Extraction Efficiency of InGaN Quantum Wells Light-Emitting Diodes. , 2009, , .		0
30	Investigation of the Deposition of Microsphere Monolayers for Fabrication of Microlens Arrays. Langmuir, 2008, 24, 12150-12157.	1.6	160
31	Optimization and Fabrication of III-Nitride Light-Emitting Diodes with Self-assembled Colloidal-based Convex Microlens Arrays. , 2008, , .		1
32	Size effects and light extraction efficiency optimization of III-nitride light emitting diodes with SiO ₂ / polystyrene microlens arrays. , 2008, , .		0
33	Comparison of numerical modeling and experiments of InGaN quantum wells light-emitting diodes with SiO ₂ / polystyrene microlens arrays. , 2008, , .		3
34	Enhancement of Light Extraction Efficiency of InGaN Quantum Wells LEDs Using SiO ₂ Microspheres. , 2007, , .		0
35	Suspension Mixing and Segregation in 1D, 2D, and 3D Flows. , 2007, , 1023.		0
36	Enhancement of light extraction efficiency of InGaN quantum wells light emitting diodes using SiO ₂ /polystyrene microlens arrays. Applied Physics Letters, 2007, 91, 221107.	1.5	136

#	ARTICLE	IF	CITATIONS
37	Phase Behavior and 3D Structure of Strongly Attractive Microsphere~Nanoparticle Mixtures. Langmuir, 2005, 21, 11040-11047.	1.6	32
38	Segregation-driven organization in chaotic granular flows. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11701-11706.	3.3	149