Donald L Feke

List of Publications by Year
in descending order

54	1,011	394421 19	454955 30
papers	citations	h-index	g-index

54	54	54	867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of curing bath conditions on the morphology and structure of poly(high internal phase) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	2
2	Piezoresistive strain sensors based on psyllium-carbon nanostructure skeletons. Composites Part B: Engineering, 2021, 209, 108610.	12.0	12
3	Porous hollow fibers with controllable structures templated from high internal phase emulsions. Journal of Applied Polymer Science, 2021, 138, 50739.	2.6	1
4	A Compact Volume-Expandable Sorbent for Oil and Solvent Capture. ACS Applied Polymer Materials, 2021, 3, 494-503.	4.4	5
5	Porous hydrogels templated from soy-protein-stabilized high internal phase emulsions. Journal of Materials Science, 2020, 55, 17284-17301.	3.7	7
6	The Effect of Shear on the Evolution of Morphology in High Internal Phase Emulsions Used as Templates for Structural and Functional Polymer Foams. ACS Applied Polymer Materials, 2020, 2, 1579-1586.	4.4	12
7	Fluid transport in open-cell polymeric foams: effect of morphology and surface wettability. SN Applied Sciences, 2020, 2, 1.	2.9	3
8	Poly(HIPE) morphology, crosslink density, and mechanical properties influenced by surfactant concentration and composition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123913.	4.7	27
9	Modeling compressive behavior of open-cell polymerized high internal phase emulsions: effects of density and morphology. Soft Matter, 2018, 14, 1637-1646.	2.7	12
10	Rheological and kinetic study of the ultrasonic degradation of locust bean gum in aqueous saline and salt-free solutions. Ultrasonics Sonochemistry, 2015, 27, 334-338.	8.2	11
11	Rheological and kinetic study of the ultrasonic degradation of xanthan gum in aqueous solution: Effects of pyruvate group. Carbohydrate Polymers, 2015, 124, 216-221.	10.2	24
12	Rheological and kinetic study of the ultrasonic degradation of xanthan gum in aqueous solutions. Food Chemistry, 2015, 172, 808-813.	8.2	44
13	THERMOGRAVIMETRIC ANALYSIS OF THE KINETICS OF BOUND-RUBBER FORMATION ON SURFACE-MODIFIED SILICA. Rubber Chemistry and Technology, 2014, 87, 311-319.	1.2	5
14	THERMOGRAVIMETRIC ANALYSIS OF THE KINETICS OF THE REACTION OF ALKOXYSILANE WITH SILICA. Rubber Chemistry and Technology, 2014, 87, 443-450.	1.2	5
15	Method for probing the microstructure of particle beds using infiltration behavior. Powder Technology, 2013, 237, 427-431.	4.2	3
16	Chemorheology of Poly(high internal phase emulsions). Macromolecules, 2013, 46, 5393-5396.	4.8	17
17	The effect of dispersants on the tensile properties of carbon nanotube/vinyl ester composites. Polymer Composites, 2012, 33, 412-419.	4.6	7
18	Dispersion of particulate clusters via the rapid vaporization of interstitial liquid. Powder Technology, 2012, 215-216, 223-226.	4.2	0

#	Article	IF	Citations
19	Model for the hydrodynamic dispersion of agglomerates incorporating thermoresponsive additives. Journal of Polymer Engineering, 2011, 31, .	1.4	2
20	Development of multilayered cellâ€hydrogel composites using an acoustic focusing technique. Biotechnology Progress, 2010, 26, 600-605.	2.6	11
21	Control of particle cluster dispersion using responsive polymeric additives. Journal of Colloid and Interface Science, 2008, 319, 160-168.	9.4	7
22	Retention and Viability Characteristics of Mammalian Cells in an Acoustically Driven Polymer Mesh. Biotechnology Progress, 2008, 20, 384-387.	2.6	23
23	Temperature Controlled Dispersion of Poly(N-Isopropyl Acrylamide) Treated Silica Clusters. Rubber Chemistry and Technology, 2008, 81, 809-820.	1.2	1
24	Droplet transport and coalescence kinetics in emulsions subjected to acoustic fields. Ultrasonics, 2007, 46, 289-302.	3.9	42
25	Characterization of Sub-Micron Perovskite Suspensions Formed Through Cavitation Processing. Particle and Particle Systems Characterization, 2006, 23, 480-483.	2.3	2
26	Prediction of the dispersion of particle clusters in the nano-scaleâ€”Part I: Steady shearing responses. Chemical Engineering Science, 2006, 61, 473-488.	3.8	45
27	Prediction of the dispersion of particle clusters in the nano-scaleâ€”Part II, unsteady shearing responses. Chemical Engineering Science, 2006, 61, 4944-4956.	3.8	17
28	Investigating dispersion mechanisms in partially infiltrated agglomerates: Interstitial fluid effects. Powder Technology, 2005, 156, 111-119.	4.2	14
29	Analysis of the kinetics of agglomerate erosion in simple shear flows. Chemical Engineering Science, 2005, 60, 6564-6573.	3.8	60
30	Transport analysis and model for the performance of an ultrasonically enhanced filtration process. Chemical Engineering Science, 2005, 60, 3233-3238.	3.8	26
31	Single-collector experiments and modeling of acoustically aided mesh filtration. AICHE Journal, 2005, 51, 1590-1598.	3.6	4
32	Characterization of TiO2 Smoke Prepared Using Gas-Phase Hydrolysis of TiCl4. Particle and Particle Systems Characterization, 2005, 22, 276-281.	2.3	5
33	Single fiber model of particle retention in an acoustically driven porous mesh. Ultrasonics, 2003, 41, 65-74.	3.9	10
34	Influence of Powder Surface Treatment on the Dispersion Behavior of Silica into Polymeric Materials. Rubber Chemistry and Technology, 2002, 75, 725-737.	1.2	23
35	Operating Characteristics of Acoustically Driven Filtration Processes for Particulate Suspensions. Separation Science and Technology, 2000, 35, 1363-1375.	2.5	4
36	Depletion Flocculation Strategy for the Fabrication of Ceramic Powder Coatings on Ceramic Fibers. Journal of the American Ceramic Society, 1999, 82, 2594-2600.	3.8	2

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37	Filtration of particulate suspensions in acoustically driven porous media. AICHE Journal, 1998, 44, 1005-1014.	3.6	33
38	On the use of acoustic contrast to distinguish between agglomerates of finely dispersed polymeric particles. Journal of the Acoustical Society of America, 1998, 104, 2189-2191.	1.1	3
39	Acoustically driven collection of suspended particles within porous media. Ultrasonics, 1997, 35, 131-139.	3.9	30
40	Fractionation of mixed particulate solids according to compressibility using ultrasonic standing wave fields. Chemical Engineering Science, 1995, 50, 3275-3284.	3.8	68
41	Assessment of the dispersibility of surfactant-treated titanium dioxide powders for compounding with polyethylene. Polymer Composites, 1995, 16, 489-494.	4.6	7
42	Effects of Solids Loading and Dispersion Schedule on the State of Aqueous Alumina/Zirconia Dispersions. Journal of the American Ceramic Society, 1994, 77, 2693-2698.	3.8	21
43	Counteracting Flow Electrophoresis: A Technique for Separating Biochemicals or Charged Macromolecules. Biotechnology Progress, 1994, 10, 246-252.	2.6	8
44	Fractionation of suspensions using synchronized ultrasonic and flow fields. AICHE Journal, 1993, 39, 197-206.	3.6	47
45	Separation devices based on forced coincidence response of fluidâ€filled pipes. Journal of the Acoustical Society of America, 1992, 91, 3152-3156.	1.1	37
46	Simulation of the Breakup of Dense Agglomerates in Simple Shear Flows. Rubber Chemistry and Technology, 1992, 65, 805-821.	1.2	8
47	Analysis of dispersion of carbon black in polymeric melts and its effect on compound properties. Polymer Engineering and Science, 1992, 32, 130-135.	3.1	53
48	Rupture of inhomogeneous spherical clusters by simple flows. Chemical Engineering Science, 1991, 46, 2153-2156.	3.8	14
49	Steric Stabilization of Nonaqueous Silicon Slips: I, Control of Particle Agglomeration and Packing. Journal of the American Ceramic Society, 1990, 73, 2879-2885.	3.8	24
50	Steric Stabilization of Nonaqueous Silicon Slips: II, Pressure Casting of Powder Compacts. Journal of the American Ceramic Society, 1990, 73, 2886-2891.	3.8	9
51	The Influence of Interstitial Liquids on the Cohesive Strength of Carbon-Black Agglomerates. Rubber Chemistry and Technology, 1989, 62, 928-938.	1.2	5
52	Comparison of the Surface Charge Behavior of Commercial Silicon Nitride and Silicon Carbide Powders. Journal of the American Ceramic Society, 1988, 71, 1086-1093.	3.8	54
53	Modeling Powder Dispersion. Materials and Processing Report, 1988, 2, 5-6.	0.0	0
54	A formulation of the short-range repulsion between spherical colloidal particles. The Journal of Physical Chemistry, 1984, 88, 5735-5739.	2.9	95