

Donald L Feke

List of Publications by Year in descending order

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54
papers

1,011
citations

394421

19
h-index

454955

30
g-index

54
all docs

54
docs citations

54
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	A formulation of the short-range repulsion between spherical colloidal particles. <i>The Journal of Physical Chemistry</i> , 1984, 88, 5735-5739.	2.9	95
2	Fractionation of mixed particulate solids according to compressibility using ultrasonic standing wave fields. <i>Chemical Engineering Science</i> , 1995, 50, 3275-3284.	3.8	68
3	Analysis of the kinetics of agglomerate erosion in simple shear flows. <i>Chemical Engineering Science</i> , 2005, 60, 6564-6573.	3.8	60
4	Comparison of the Surface Charge Behavior of Commercial Silicon Nitride and Silicon Carbide Powders. <i>Journal of the American Ceramic Society</i> , 1988, 71, 1086-1093.	3.8	54
5	Analysis of dispersion of carbon black in polymeric melts and its effect on compound properties. <i>Polymer Engineering and Science</i> , 1992, 32, 130-135.	3.1	53
6	Fractionation of suspensions using synchronized ultrasonic and flow fields. <i>AIChE Journal</i> , 1993, 39, 197-206.	3.6	47
7	Prediction of the dispersion of particle clusters in the nano-scale—Part I: Steady shearing responses. <i>Chemical Engineering Science</i> , 2006, 61, 473-488.	3.8	45
8	Rheological and kinetic study of the ultrasonic degradation of xanthan gum in aqueous solutions. <i>Food Chemistry</i> , 2015, 172, 808-813.	8.2	44
9	Droplet transport and coalescence kinetics in emulsions subjected to acoustic fields. <i>Ultrasonics</i> , 2007, 46, 289-302.	3.9	42
10	Separation devices based on forced coincidence response of fluid-filled pipes. <i>Journal of the Acoustical Society of America</i> , 1992, 91, 3152-3156.	1.1	37
11	Filtration of particulate suspensions in acoustically driven porous media. <i>AIChE Journal</i> , 1998, 44, 1005-1014.	3.6	33
12	Acoustically driven collection of suspended particles within porous media. <i>Ultrasonics</i> , 1997, 35, 131-139.	3.9	30
13	Poly(HIPE) morphology, crosslink density, and mechanical properties influenced by surfactant concentration and composition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123913.	4.7	27
14	Transport analysis and model for the performance of an ultrasonically enhanced filtration process. <i>Chemical Engineering Science</i> , 2005, 60, 3233-3238.	3.8	26
15	Steric Stabilization of Nonaqueous Silicon Slips: I, Control of Particle Agglomeration and Packing. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2879-2885.	3.8	24
16	Rheological and kinetic study of the ultrasonic degradation of xanthan gum in aqueous solution: Effects of pyruvate group. <i>Carbohydrate Polymers</i> , 2015, 124, 216-221.	10.2	24
17	Influence of Powder Surface Treatment on the Dispersion Behavior of Silica into Polymeric Materials. <i>Rubber Chemistry and Technology</i> , 2002, 75, 725-737.	1.2	23
18	Retention and Viability Characteristics of Mammalian Cells in an Acoustically Driven Polymer Mesh. <i>Biotechnology Progress</i> , 2008, 20, 384-387.	2.6	23

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19	Effects of Solids Loading and Dispersion Schedule on the State of Aqueous Alumina/Zirconia Dispersions. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2693-2698.	3.8	21
20	Prediction of the dispersion of particle clusters in the nano-scale—Part II, unsteady shearing responses. <i>Chemical Engineering Science</i> , 2006, 61, 4944-4956.	3.8	17
21	Chemorheology of Poly(high internal phase emulsions). <i>Macromolecules</i> , 2013, 46, 5393-5396.	4.8	17
22	Rupture of inhomogeneous spherical clusters by simple flows. <i>Chemical Engineering Science</i> , 1991, 46, 2153-2156.	3.8	14
23	Investigating dispersion mechanisms in partially infiltrated agglomerates: Interstitial fluid effects. <i>Powder Technology</i> , 2005, 156, 111-119.	4.2	14
24	Modeling compressive behavior of open-cell polymerized high internal phase emulsions: effects of density and morphology. <i>Soft Matter</i> , 2018, 14, 1637-1646.	2.7	12
25	The Effect of Shear on the Evolution of Morphology in High Internal Phase Emulsions Used as Templates for Structural and Functional Polymer Foams. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1579-1586.	4.4	12
26	Piezoresistive strain sensors based on psyllium-carbon nanostructure skeletons. <i>Composites Part B: Engineering</i> , 2021, 209, 108610.	12.0	12
27	Development of multilayered cell—hydrogel composites using an acoustic focusing technique. <i>Biotechnology Progress</i> , 2010, 26, 600-605.	2.6	11
28	Rheological and kinetic study of the ultrasonic degradation of locust bean gum in aqueous saline and salt-free solutions. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 334-338.	8.2	11
29	Single fiber model of particle retention in an acoustically driven porous mesh. <i>Ultrasonics</i> , 2003, 41, 65-74.	3.9	10
30	Steric Stabilization of Nonaqueous Silicon Slips: II, Pressure Casting of Powder Compacts. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2886-2891.	3.8	9
31	Simulation of the Breakup of Dense Agglomerates in Simple Shear Flows. <i>Rubber Chemistry and Technology</i> , 1992, 65, 805-821.	1.2	8
32	Counteracting Flow Electrophoresis: A Technique for Separating Biochemicals or Charged Macromolecules. <i>Biotechnology Progress</i> , 1994, 10, 246-252.	2.6	8
33	Assessment of the dispersibility of surfactant-treated titanium dioxide powders for compounding with polyethylene. <i>Polymer Composites</i> , 1995, 16, 489-494.	4.6	7
34	Control of particle cluster dispersion using responsive polymeric additives. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 160-168.	9.4	7
35	The effect of dispersants on the tensile properties of carbon nanotube/vinyl ester composites. <i>Polymer Composites</i> , 2012, 33, 412-419.	4.6	7
36	Porous hydrogels templated from soy-protein-stabilized high internal phase emulsions. <i>Journal of Materials Science</i> , 2020, 55, 17284-17301.	3.7	7

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37	The Influence of Interstitial Liquids on the Cohesive Strength of Carbon-Black Agglomerates. Rubber Chemistry and Technology, 1989, 62, 928-938.	1.2	5
38	Characterization of TiO ₂ Smoke Prepared Using Gas-Phase Hydrolysis of TiCl ₄ . Particle and Particle Systems Characterization, 2005, 22, 276-281.	2.3	5
39	THERMOGRAVIMETRIC ANALYSIS OF THE KINETICS OF BOUND-RUBBER FORMATION ON SURFACE-MODIFIED SILICA. Rubber Chemistry and Technology, 2014, 87, 311-319.	1.2	5
40	THERMOGRAVIMETRIC ANALYSIS OF THE KINETICS OF THE REACTION OF ALKOXYSILANE WITH SILICA. Rubber Chemistry and Technology, 2014, 87, 443-450.	1.2	5
41	A Compact Volume-Expandable Sorbent for Oil and Solvent Capture. ACS Applied Polymer Materials, 2021, 3, 494-503.	4.4	5
42	Operating Characteristics of Acoustically Driven Filtration Processes for Particulate Suspensions. Separation Science and Technology, 2000, 35, 1363-1375.	2.5	4
43	Single-collector experiments and modeling of acoustically aided mesh filtration. AIChE Journal, 2005, 51, 1590-1598.	3.6	4
44	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
45	Method for probing the microstructure of particle beds using infiltration behavior. Powder Technology, 2013, 237, 427-431.	4.2	3
46	Fluid transport in open-cell polymeric foams: effect of morphology and surface wettability. SN Applied Sciences, 2020, 2, 1.	2.9	3
47	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
48	Characterization of Sub-Micron Perovskite Suspensions Formed Through Cavitation Processing. Particle and Particle Systems Characterization, 2006, 23, 480-483.	2.3	2
49	Model for the hydrodynamic dispersion of agglomerates incorporating thermoresponsive additives. Journal of Polymer Engineering, 2011, 31, .	1.4	2
50	Effect of curing bath conditions on the morphology and structure of poly(high internal phase) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.6	2
51	Temperature Controlled Dispersion of Poly(N-Isopropyl Acrylamide) Treated Silica Clusters. Rubber Chemistry and Technology, 2008, 81, 809-820.	1.2	1
52	Porous hollow fibers with controllable structures templated from high internal phase emulsions. Journal of Applied Polymer Science, 2021, 138, 50739.	2.6	1
53	Modeling Powder Dispersion. Materials and Processing Report, 1988, 2, 5-6.	0.0	0
54	Dispersion of particulate clusters via the rapid vaporization of interstitial liquid. Powder Technology, 2012, 215-216, 223-226.	4.2	0