

Ilhan A Aksay

List of Publications by Year in descending order

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168
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168
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38757
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#	ARTICLE	IF	CITATIONS
1	Enhanced Fuel Decomposition in the Presence of Colloidal Functionalized Graphene Sheet-Supported Platinum Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 7637-7648.	2.5	8
2	Multifunctional Graphene-Based Additives for Enhanced Combustion of Cracked Hydrocarbon Fuels under Supercritical Conditions. <i>Combustion Science and Technology</i> , 2020, 192, 1420-1435.	1.2	7
3	Functionalized graphene sheet as a dispersible fuel additive for catalytic decomposition of methylcyclohexane. <i>Combustion and Flame</i> , 2020, 217, 212-221.	2.8	16
4	Influence of atmospheric species on the electrical properties of functionalized graphene sheets. <i>RSC Advances</i> , 2018, 8, 42073-42079.	1.7	2
5	Structure-Dependent Electrochemistry of Reduced Graphene Oxide Monolayers. <i>Journal of the Electrochemical Society</i> , 2016, 163, H491-H498.	1.3	14
6	Dehydrated Sucrose Nanoparticles as Spacers for Graphene-Ionic Liquid Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7167-7174.	3.2	7
7	Concentration Fluctuations and Capacitive Response in Dense Ionic Solutions. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2333-2338.	2.1	60
8	Intrinsic Catalytic Activity of Graphene Defects for the Co ^{II/III} (bpy) ₃ Dye-Sensitized Solar Cell Redox Mediator. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9134-9141.	4.0	12
9	Functionalization of Graphene Oxide by Tetrazine Derivatives: A Versatile Approach toward Covalent Bridges between Graphene Sheets. <i>Chemistry of Materials</i> , 2015, 27, 4298-4310.	3.2	43
10	Structural rearrangement and dispersion of functionalized graphene sheets in aqueous solutions. <i>Colloids and Interface Science Communications</i> , 2015, 8, 1-5.	2.0	20
11	Combined Effects of Functional Groups, Lattice Defects, and Edges in the Infrared Spectra of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18167-18176.	1.5	134
12	Anomalous Capacitance Maximum of the Glassy Carbon-Ionic Liquid Interface through Dilution with Organic Solvents. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2644-2648.	2.1	69
13	High-Rate Li ⁺ Storage Capacity of Surfactant-Templated Graphene-TiO ₂ Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1566-A1573.	1.3	1
14	Structural Design of Cathodes for Li-ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500124.	10.2	402
15	Four-Fold Increase in the Intrinsic Capacitance of Graphene through Functionalization and Lattice Disorder. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20369-20378.	1.5	46
16	Energetics of Defects on Graphene through Fluorination. <i>ChemSusChem</i> , 2014, 7, 1295-1300.	3.6	10
17	Graphene Materials and Their Use in Dye-Sensitized Solar Cells. <i>Chemical Reviews</i> , 2014, 114, 6323-6348.	23.0	378
18	High Selectivity of Porous Graphene Electrodes Solely Due to Transport and Pore Depletion Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22635-22642.	1.5	25

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19	Buckling of dielectric elastomeric plates for soft, electrically active microfluidic pumps. <i>Soft Matter</i> , 2014, 10, 4789-4794.	1.2	56
20	On the Electrochemical Response of Porous Functionalized Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16076-16086.	1.5	86
21	Electrochemical Sensing of Nitric Oxide with Functionalized Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12624-12630.	4.0	38
22	Dispersion Stability of Functionalized Graphene in Aqueous Sodium Dodecyl Sulfate Solutions. <i>Langmuir</i> , 2013, 29, 14831-14838.	1.6	83
23	The effect of degree of reduction on the electrical properties of functionalized graphene sheets. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	110
24	Supercapacitor Electrodes Produced through Evaporative Consolidation of Graphene Oxide-Water-Ionic Liquid Gels. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1653-A1660.	1.3	74
25	Adsorption of Sodium Dodecyl Sulfate on Functionalized Graphene Measured by Conductometric Titration. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7950-7958.	1.2	49
26	Directed Motion of Colloidal Particles in a Galvanic Microreactor. <i>Langmuir</i> , 2013, 29, 2498-2505.	1.6	4
27	Cementation of Colloidal Particles on Electrodes in a Galvanic Microreactor. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6346-6353.	4.0	2
28	PHONON-INDUCED ANISOTROPIC DISPERSION FORCES ON A METALLIC SUBSTRATE. <i>Nano LIFE</i> , 2012, 02, 1240001.	0.6	2
29	Enhanced Thermal Decomposition of Nitromethane on Functionalized Graphene Sheets: Ab Initio Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 19011-19016.	6.6	83
30	Dielectric elastomer actuators with elastomeric electrodes. <i>Applied Physics Letters</i> , 2012, 101, 091907.	1.5	111
31	Functionalized Graphene Sheets as a Versatile Replacement for Platinum in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2794-2800.	4.0	204
32	Autonomous colloidal crystallization in a galvanic microreactor. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	7
33	Strain-induced crystallization and mechanical properties of functionalized graphene sheet-filled natural rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 718-723.	2.4	94
34	Multifunctional elastomer nanocomposites with functionalized graphene single sheets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 910-916.	2.4	88
35	Multifunctional and Low-Density Inorganic Nanocomposites. <i>Jom</i> , 2012, 64, 226-233.	0.9	3
36	High Surface Area Tapes Produced with Functionalized Graphene. <i>ACS Nano</i> , 2011, 5, 5214-5222.	7.3	91

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37	Intrinsic Capacitance and Redox Activity of Functionalized Graphene Sheets. Journal of Physical Chemistry C, 2011, 115, 20326-20334.	1.5	47
38	Stabilization of Electrocatalytic Metal Nanoparticles at Metal~Metal Oxide~Graphene Triple Junction Points. Journal of the American Chemical Society, 2011, 133, 2541-2547.	6.6	391
39	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. Physical Chemistry Chemical Physics, 2011, 13, 7660.	1.3	347
40	Local Voltage Drop in a Single Functionalized Graphene Sheet Characterized by Kelvin Probe Force Microscopy. Nano Letters, 2011, 11, 3543-3549.	4.5	79
41	Hierarchically Porous Graphene as a Lithium~Air Battery Electrode. Nano Letters, 2011, 11, 5071-5078.	4.5	943
42	Graphene~Polypyrrole Nanocomposite as a Highly Efficient and Low Cost Electrically Switched Ion Exchanger for Removing ClO ₄ ⁻ from Wastewater. ACS Applied Materials & Interfaces, 2011, 3, 3633-3637.	4.0	109
43	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. Chemistry of Materials, 2011, 23, 1079-1081.	3.2	366
44	Factors Controlling the Size of Graphene Oxide Sheets Produced <i>via</i> the Graphite Oxide Route. ACS Nano, 2011, 5, 4073-4083.	7.3	235
45	Potential Distribution in Functionalized Graphene Devices Probed by Kelvin Probe Force Microscopy. AIP Conference Proceedings, 2011, , .	0.3	1
46	Structure and Energetics of Thin Film Water. Journal of Physical Chemistry C, 2011, 115, 4624-4635.	1.5	33
47	Functionalized Graphene as a Catalytic Counter Electrode in Dye-Sensitized Solar Cells. ACS Nano, 2010, 4, 6203-6211.	7.3	1,040
48	Nitrogen-doped graphene and its electrochemical applications. Journal of Materials Chemistry, 2010, 20, 7491.	6.7	1,040
49	Electrochemical Performance of Graphene as Effected by Electrode Porosity and Graphene Functionalization. Electroanalysis, 2010, 22, 2834-2841.	1.5	94
50	Constraint of DNA on Functionalized Graphene Improves its Biostability and Specificity. Small, 2010, 6, 1205-1209.	5.2	342
51	Nanobiosensors: Constraint of DNA on Functionalized Graphene Improves its Biostability and Specificity Small 11/2010. Small, 2010, 6, n/a-n/a.	5.2	2
52	Sensitive Immunosensor for Cancer Biomarker Based on Dual Signal Amplification Strategy of Graphene Sheets and Multienzyme Functionalized Carbon Nanospheres. Analytical Chemistry, 2010, 82, 2989-2995.	3.2	438
53	Ternary Self-Assembly of Ordered Metal Oxide~Graphene Nanocomposites for Electrochemical Energy Storage. ACS Nano, 2010, 4, 1587-1595.	7.3	795
54	Tuning of structural color using a dielectric actuator and multifunctional compliant electrodes. Applied Optics, 2010, 49, 6689.	2.1	37

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55	A graphene-based electrochemical sensor for sensitive detection of paracetamol. <i>Talanta</i> , 2010, 81, 754-759.	2.9	549
56	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. <i>Electrochemistry Communications</i> , 2009, 11, 954-957.	2.3	615
57	Thermodynamics of densification of powder compact. <i>Ceramics International</i> , 2009, 35, 2667-2674.	2.3	15
58	Glucose Oxidase-“graphene”-chitosan modified electrode for direct electrochemistry and glucose sensing. <i>Biosensors and Bioelectronics</i> , 2009, 25, 901-905.	5.3	1,140
59	Self-Assembled TiO ₂ -Graphene Hybrid Nanostructures for Enhanced Li-Ion Insertion. <i>ACS Nano</i> , 2009, 3, 907-914.	7.3	1,596
60	Effect of Surface Polarity on the Structure and Dynamics of Water in Nanoscale Confinement. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1438-1446.	1.2	143
61	Glucose biosensor based on immobilization of glucose oxidase in platinum nanoparticles/graphene/chitosan nanocomposite film. <i>Talanta</i> , 2009, 80, 403-406.	2.9	416
62	Functionalized Graphene Sheet Colloids for Enhanced Fuel/Propellant Combustion. <i>ACS Nano</i> , 2009, 3, 3945-3954.	7.3	221
63	Evolution from Surface-Influenced to Bulk-Like Dynamics in Nanoscopically Confined Water. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7973-7976.	1.2	97
64	Dissolution dynamics of thin films measured by optical reflectance. <i>Journal of Chemical Physics</i> , 2009, 131, 244710.	1.2	6
65	Raman Spectra of Graphite Oxide and Functionalized Graphene Sheets. <i>Nano Letters</i> , 2008, 8, 36-41.	4.5	3,995
66	Inhibition and Promotion of Copper Corrosion by CTAB in a Microreactor System. <i>Langmuir</i> , 2008, 24, 14269-14275.	1.6	33
67	Bending Properties of Single Functionalized Graphene Sheets Probed by Atomic Force Microscopy. <i>ACS Nano</i> , 2008, 2, 2577-2584.	7.3	187
68	Tip-Induced Orientational Order of Surfactant Micelles on Gold. <i>Langmuir</i> , 2008, 24, 626-631.	1.6	12
69	Orientational Order of Molecular Assemblies on Rough Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14902-14906.	1.5	23
70	Surfactant Aggregates at Rough Solid-Liquid Interfaces. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8708-8712.	1.2	37
71	Non-Peptide Polymeric Silicatein I± Mimic for Neutral pH Catalysis in the Formation of Silica. <i>Macromolecules</i> , 2007, 40, 5710-5717.	2.2	21
72	Electric-Field-Induced Orientation of Surfactant-Templated Nanoscopic Silica. <i>Langmuir</i> , 2007, 23, 8156-8162.	1.6	7

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73	Intercalation and Stitching of Graphite Oxide with Diaminoalkanes. <i>Langmuir</i> , 2007, 23, 10644-10649.	1.6	234
74	Single Sheet Functionalized Graphene by Oxidation and Thermal Expansion of Graphite. <i>Chemistry of Materials</i> , 2007, 19, 4396-4404.	3.2	3,276
75	Self-Healing of Surfactant Surface Micelles on Millisecond Time Scales. <i>Journal of the American Chemical Society</i> , 2006, 128, 12378-12379.	6.6	37
76	Silica Monoliths Templated on L3Liquid Crystal. <i>Langmuir</i> , 2006, 22, 325-331.	1.6	7
77	Anisotropic Adsorption of Molecular Assemblies on Crystalline Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16624-16632.	1.2	34
78	Oxygen-Driven Unzipping of Graphitic Materials. <i>Physical Review Letters</i> , 2006, 96, 176101.	2.9	524
79	The Stability of L3Sponge Phase in Acidic Solutions. <i>Langmuir</i> , 2006, 22, 4060-4064.	1.6	12
80	Functionalized Single Graphene Sheets Derived from Splitting Graphite Oxide. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8535-8539.	1.2	3,173
81	Solvothermal removal of the organic template from L 3 (sponge) templated silica monoliths. <i>Journal of Nanoparticle Research</i> , 2006, 8, 603-614.	0.8	15
82	Microchannel Molding: A Soft Lithography-inspired Approach to Micrometer-scale Patterning. <i>Journal of Materials Research</i> , 2005, 20, 1995-2003.	1.2	30
83	Use of dielectric functions in the theory of dispersion forces. <i>Physical Review B</i> , 2005, 71, .	1.1	44
84	Inhibition of Aluminum Oxyhydroxide Precipitation with Citric Acid. <i>Langmuir</i> , 2005, 21, 11690-11695.	1.6	13
85	Topographical Evolution of Lead Zirconate Titanate (PZT) Thin Films Patterned by Micromolding in Capillaries. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4261-4268.	1.2	59
86	Patterning Proteins and Cells Using Two-Dimensional Arrays of Colloids. <i>Langmuir</i> , 2003, 19, 513-518.	1.6	36
87	Detection of water-ice transition using a lead zirconate titanate/brass transducer. <i>Journal of Applied Physics</i> , 2002, 92, 106-111.	1.1	12
88	Template-Directed Assembly of a de Novo Designed Protein. <i>Journal of the American Chemical Society</i> , 2002, 124, 6846-6848.	6.6	103
89	Effect of a Transverse Tensile Stress on the Electric Field Induced Domain Reorientation in Soft PZT: In Situ XRD Study. <i>Journal of the American Ceramic Society</i> , 2002, 85, 844-850.	1.9	42
90	Simultaneous liquid viscosity and density determination with piezoelectric unimorph cantilevers. <i>Journal of Applied Physics</i> , 2001, 89, 1497-1505.	1.1	167

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91	Hierarchical Structure~Ferroelectricity Relationships of Barium Titanate Particles. <i>Crystal Growth and Design</i> , 2001, 1, 401-419.	1.4	45
92	Barium Titanate Nanoparticles in Block Copolymer. <i>Langmuir</i> , 2001, 17, 7656-7663.	1.6	13
93	Continuous Crystalline Carbonate Apatite Thin Films. A Biomimetic Approach. <i>Journal of the American Chemical Society</i> , 2001, 123, 2196-2203.	6.6	178
94	Electromechanical Properties of a Ceramic <i>1</i>-Gradient Flextensional Actuator. <i>Journal of the American Ceramic Society</i> , 2001, 84, 996-1003.	1.9	41
95	Cure depth in photopolymerization: Experiments and theory. <i>Journal of Materials Research</i> , 2001, 16, 3536-3544.	1.2	243
96	Disordered mesoporous silicates formed by templation of a liquid crystal (L3). <i>Materials Research Society Symposia Proceedings</i> , 2000, 658, 751.	0.1	0
97	Synthesis of CaCO ₃ Thin Films via a Bioinspired Strategy: Cooperative Template-Inhibition. <i>Microscopy and Microanalysis</i> , 2000, 6, 1070-1071.	0.2	0
98	An Amorphous to Crystalline Transition in the Formation of CaCO ₃ Thin Films. <i>Microscopy and Microanalysis</i> , 2000, 6, 1072-1073.	0.2	0
99	Disorder~Order Transition in Mesoscopic Silica Thin Films. <i>Chemistry of Materials</i> , 2000, 12, 1536-1548.	3.2	50
100	SELF-ASSEMBLED CERAMICS PRODUCED BY COMPLEX-FLUID TEMPLATION. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 601-622.	4.8	108
101	Electromechanical Behavior of PZT~Brass Unimorphs. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1733-1740.	1.9	87
102	Nanocomposite Mullite/Mullite Powders by Spray Pyrolysis. <i>Journal of Nanoparticle Research</i> , 1999, 1, 127-130.	0.8	9
103	Surface Micellization Patterns of Quaternary Ammonium Surfactants on Mica. <i>Langmuir</i> , 1999, 15, 1685-1692.	1.6	168
104	Elastic and Yield Behavior of Strongly Flocculated Colloids. <i>Journal of the American Ceramic Society</i> , 1999, 82, 616-624.	1.9	140
105	Elastic Properties and Structure of Interpenetrating Boron Carbide/Aluminum Multiphase Composites. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1263-1268.	1.9	38
106	Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process. <i>Journal of the American Chemical Society</i> , 1998, 120, 11977-11985.	6.6	277
107	Optical transmission in highly concentrated dispersions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998, 15, 932.	0.8	37
108	Absorption length for photon propagation in highly dense colloidal dispersions. <i>Journal of Materials Research</i> , 1998, 13, 3463-3467.	1.2	9

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109	Self-Assembly Structures of Nonionic Surfactants at Graphite/Solution Interfaces. Langmuir, 1997, 13, 4349-4356.	1.6	173
110	Porphyrin Amphiphiles as Templates for the Nucleation of Calcium Carbonate. Journal of the American Chemical Society, 1997, 119, 5449-5450.	6.6	82
111	Nanoscale Patterning of Barium Titanate on Block Copolymers. Langmuir, 1997, 13, 3866-3870.	1.6	34
112	Scaling Analysis for the Axial Displacement and Pressure of Flexensional Transducers. Journal of the American Ceramic Society, 1997, 80, 1073-1078.	1.9	34
113	Structure Evolution in Hydrothermally Processed (<100oC) BaTiO ₃ Films. Journal of the American Ceramic Society, 1996, 79, 239-247.	1.9	110
114	Heteroflocculation in Binary Colloidal Suspensions: Monte Carlo Simulations. Journal of the American Ceramic Society, 1996, 79, 2587-2591.	1.9	8
115	Mullite Phase Separation in Nanocomposite Powders. Proceedings Annual Meeting Electron Microscopy Society of America, 1996, 54, 232-233.	0.0	0
116	Processing of Silicon Carbide-Mullite-Alumina Nanocomposites. Journal of the American Ceramic Society, 1995, 78, 479-486.	1.9	62
117	Elimination of an isolated pore: Effect of grain size. Journal of Materials Research, 1995, 10, 1000-1015.	1.2	18
118	The breakup of the intermediate gold aggregates. Proceedings Annual Meeting Electron Microscopy Society of America, 1995, 53, 196-197.	0.0	2
119	Sedimentation in flocculating colloidal suspensions. Journal of Materials Research, 1994, 9, 451-461.	1.2	44
120	Equilibrium-State Density Profiles of Centrifuged Cakes. Journal of the American Ceramic Society, 1994, 77, 540-546.	1.9	24
121	Size dependence of the ferroelectric transition of smallBaTiO ₃ particles: Effect of depolarization. Physical Review B, 1994, 50, 15575-15585.	1.1	174
122	Hydrothermal Processing of BaTiO ₃ /Polymer Films. Materials Research Society Symposia Proceedings, 1994, 346, 63.	0.1	7
123	Equilibrium-State Density Profiles of Centrifuged Cakes of Flocculated Suspensions. Materials Research Society Symposia Proceedings, 1992, 289, 251.	0.1	3
124	Consolidation Behavior of Flocculated Alumina Suspensions. Journal of the American Ceramic Society, 1992, 75, 3305-3314.	1.9	188
125	Nacre of Abalone Shell: a Natural Multifunctional Nanolaminated Ceramic-Polymer Composite Material. Results and Problems in Cell Differentiation, 1992, 19, 1-26.	0.2	51
126	Dispersion of Small Ceramic Particles (Al ₂ O ₃) with <i>Azotobacter vinelandii</i> . Applied and Environmental Microbiology, 1992, 58, 3130-3135.	1.4	2

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127	A study on the formation of hydrothermally prepared BaTiO ₃ particles. Proceedings Annual Meeting Electron Microscopy Society of America, 1992, 50, 304-305.	0.0	1
128	Structure-Mechanical Property Relationships In A Biological Ceramic-Polymer Composite: Nacre. Materials Research Society Symposia Proceedings, 1991, 255, 171.	0.1	12
129	Imaging Of Hierarchically Structured Materials. Materials Research Society Symposia Proceedings, 1991, 255, 293.	0.1	9
130	A Hierarchically Structured Model Composite: A Tem Study of the Hard Tissue of Red Abalone. Materials Research Society Symposia Proceedings, 1991, 255, 9.	0.1	8
131	Clustering of binary colloidal suspensions: Experiment. Journal of Colloid and Interface Science, 1991, 142, 357-368.	5.0	35
132	Symposium for Mullite Processing, Structure, and Properties. Journal of the American Ceramic Society, 1991, 74, 2341-2341.	1.9	24
133	Mullite for Structural, Electronic, and Optical Applications. Journal of the American Ceramic Society, 1991, 74, 2343-2358.	1.9	600
134	Mullitization of Diphasic Aluminosilicate Gels. Journal of the American Ceramic Society, 1991, 74, 2388-2392.	1.9	123
135	Clustering of binary colloidal suspensions: Theory. Journal of Colloid and Interface Science, 1991, 142, 369-377.	5.0	18
136	Aggregation of colloidal particles with a finite interparticle attraction energy. Journal of Statistical Physics, 1991, 62, 961-984.	0.5	43
137	Mechanical Properties of Colloidal Gels Subject to Particle Rearrangement. Materials Research Society Symposia Proceedings, 1990, 195, 477.	0.1	4
138	Quantitative Analysis of Hierarchical Pores in Powder Compact. Journal of the Ceramic Society of Japan, 1990, 98, 126-135.	1.3	20
139	Sintering with Rigid Inclusions: Pair Interactions. Journal of the American Ceramic Society, 1990, 73, 54-60.	1.9	31
140	Simultaneous momentum, heat and mass transfer with chemical reaction in a disordered porous medium: application to binder removal from a ceramic green body. Chemical Engineering Science, 1990, 45, 1719-1731.	1.9	90
141	Fractal colloidal aggregates with finite interparticle interactions: Energy dependence of the fractal dimension. Physical Review A, 1990, 41, 3206-3213.	1.0	72
142	Theory of oxygen diffusion in the YBa ₂ Cu ₃ O _{7-δ} superconducting compound. Physical Review B, 1990, 42, 4244-4254.	1.1	41
143	Scaling behavior of the elastic properties of colloidal gels. Physical Review A, 1990, 42, 4772-4779.	1.0	736
144	The stability of binary charged colloidal crystals. Journal of Chemical Physics, 1989, 90, 4506-4512.	1.2	17

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145	Reaction Sequencing During Processing of the 123 Superconductor. Journal of the American Ceramic Society, 1989, 72, 1977-1979.	1.9	27
146	Ceramic Processing using Inorganic Polymers. Materials Research Society Symposia Proceedings, 1989, 155, 155.	0.1	3
147	Removal of Processing Aids from Ceramic/Polymer Composites. Materials Research Society Symposia Proceedings, 1989, 155, 171.	0.1	0
148	Packing and Structure in Systems Containing Rod-Like Particles. Materials Research Society Symposia Proceedings, 1989, 155, 331.	0.1	0
149	Stability of a Binary Colloidal Suspension and its effect on Colloidal Processing. Materials Research Society Symposia Proceedings, 1989, 155, 73.	0.1	0
150	Mechanism of Twin Formation During the Tetragonal to Orthorhombic Transformation In YBa ₂ Cu ₃ O _{7-x} . Materials Research Society Symposia Proceedings, 1989, 169, 805.	0.1	0
151	Structure and formation of twins in the orthorhombic YBa ₂ Cu ₃ O _{7-x} . Physica C: Superconductivity and Its Applications, 1988, 152, 161-170.	0.6	54
152	Processing of Highly Concentrated Aqueous alpha-Alumina Suspensions Stabilized with Polyelectrolytes. Journal of the American Ceramic Society, 1988, 71, 1062-1067.	1.9	443
153	Stability of Aqueous alpha-Al ₂ O ₃ Suspensions with Poly(methacrylic acid) Polyelectrolyte. Journal of the American Ceramic Society, 1988, 71, 250-255.	1.9	571
154	Liquid Crystal-Like Phase Separation in Systems of Macroscopic Rods. Materials Research Society Symposia Proceedings, 1988, 134, 27.	0.1	0
155	Sintering Behavior of an Isolated Pore: Monte Carlo Simulation. Materials Research Society Symposia Proceedings, 1988, 138, 125.	0.1	0
156	Monte Carlo Simulation of Adsorption of Di-Block Copolymers. Materials Research Society Symposia Proceedings, 1988, 140, 431.	0.1	2
157	Phase diagrams of charged colloidal particles. Journal of Chemical Physics, 1987, 86, 5127-5132.	1.2	62
158	Reversible-growth model: Cluster-cluster aggregation with finite binding energies. Physical Review A, 1987, 36, 5015-5019.	1.0	107
159	Spinel Phase Formation During the 980oC Exothermic Reaction in the Kaolinite-to-Mullite Reaction Series. Journal of the American Ceramic Society, 1987, 70, 837-842.	1.9	166
160	Colloidal Consolidation and Sintering Behavior of CVD-Processed Mullite Powders. , 1987, , 611-622.		7
161	High Resolution Electron Microscopic Characterization of Interfaces in Ceramics. , 1985, , 167-178.		1
162	Work of Adhesion Measurements by a Periodic Cracking Technique. , 1981, , 641-649.		6

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163	Densities of SiO ₂ -Al ₂ O ₃ Melts. Journal of the American Ceramic Society, 1979, 62, 332-336.	1.9	79
164	Determination of Phase Diagrams using Diffusion Techniques. , 1975, , 433-444.		3
165	Decomposition of Mullite. Journal of the American Ceramic Society, 1972, 55, 98-101.	1.9	38