

# Ilhan A Aksay

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

|                    |                          |                |                 |
|--------------------|--------------------------|----------------|-----------------|
| 165<br>papers      | 28,472<br>citations      | 63<br>h-index  | 168<br>g-index  |
| 168<br>ext. papers | 29,981<br>ext. citations | 6.3<br>avg, IF | 6.86<br>L-index |

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 165 | Multifunctional Graphene-Based Additives for Enhanced Combustion of Cracked Hydrocarbon Fuels under Supercritical Conditions. <i>Combustion Science and Technology</i> , <b>2020</b> , 192, 1420-1435    | 1.5  | 3         |
| 164 | Functionalized graphene sheet as a dispersible fuel additive for catalytic decomposition of methylcyclohexane. <i>Combustion and Flame</i> , <b>2020</b> , 217, 212-221                                  | 5.3  | 8         |
| 163 | Enhanced Fuel Decomposition in the Presence of Colloidal Functionalized Graphene Sheet-Supported Platinum Nanoparticles. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7637-7648                | 6.1  | 2         |
| 162 | Influence of atmospheric species on the electrical properties of functionalized graphene sheets.. <i>RSC Advances</i> , <b>2018</b> , 8, 42073-42079   | 3.7  | 1         |
| 161 | Concentration Fluctuations and Capacitive Response in Dense Ionic Solutions. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2333-8  | 6.4  | 51        |
| 160 | Intrinsic Catalytic Activity of Graphene Defects for the Co(II/III)(bpy) <sub>3</sub> Dye-Sensitized Solar Cell Redox Mediator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9134-41 | 9.5  | 11        |
| 159 | Structure-Dependent Electrochemistry of Reduced Graphene Oxide Monolayers. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H491-H498  | 3.9  | 13        |
| 158 | Dehydrated Sucrose Nanoparticles as Spacers for Graphene/Ionic Liquid Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 7167-7174                           | 8.3  | 6         |
| 157 | Combined Effects of Functional Groups, Lattice Defects, and Edges in the Infrared Spectra of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18167-18176                     | 3.8  | 97        |
| 156 | Anomalous Capacitance Maximum of the Glassy Carbon-Ionic Liquid Interface through Dilution with Organic Solvents. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2644-8                 | 6.4  | 49        |
| 155 | High-Rate Li <sup>+</sup> Storage Capacity of Surfactant-Templated Graphene-TiO <sub>2</sub> Nanocomposites. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1566-A1573              | 3.9  | 0         |
| 154 | Structural Design of Cathodes for Li-S Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500124  | 21.8 | 342       |
| 153 | Four-Fold Increase in the Intrinsic Capacitance of Graphene through Functionalization and Lattice Disorder. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20369-20378                      | 3.8  | 38        |
| 152 | Functionalization of Graphene Oxide by Tetrazine Derivatives: A Versatile Approach toward Covalent Bridges between Graphene Sheets. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4298-4310          | 9.6  | 30        |
| 151 | Structural rearrangement and dispersion of functionalized graphene sheets in aqueous solutions. <i>Colloids and Interface Science Communications</i> , <b>2015</b> , 8, 1-5                              | 5.4  | 15        |
| 150 | Graphene materials and their use in dye-sensitized solar cells. <i>Chemical Reviews</i> , <b>2014</b> , 114, 6323-48   | 68.1 | 331       |
| 149 | High Selectivity of Porous Graphene Electrodes Solely Due to Transport and Pore Depletion Effects. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22635-22642                               | 3.8  | 22        |

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| 148 | Buckling of dielectric elastomeric plates for soft, electrically active microfluidic pumps. <i>Soft Matter</i> , <b>2014</b> , 10, 4789-94   | 3.6  | 48  |
| 147 | Energetics of defects on graphene through fluorination. <i>ChemSusChem</i> , <b>2014</b> , 7, 1295-300   | 8.3  | 9   |
| 146 | On the Electrochemical Response of Porous Functionalized Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 16076-16086  | 3.8  | 74  |
| 145 | Electrochemical sensing of nitric oxide with functionalized graphene electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 12624-30   | 9.5  | 33  |
| 144 | Dispersion stability of functionalized graphene in aqueous sodium dodecyl sulfate solutions. <i>Langmuir</i> , <b>2013</b> , 29, 14831-8   | 4    | 71  |
| 143 | The effect of degree of reduction on the electrical properties of functionalized graphene sheets. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 023114   | 3.4  | 98  |
| 142 | Supercapacitor Electrodes Produced through Evaporative Consolidation of Graphene Oxide-Water-Ionic Liquid Gels. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1653-A1660           | 3.9  | 54  |
| 141 | Adsorption of sodium dodecyl sulfate on functionalized graphene measured by conductometric titration. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 7950-8                                 | 3.4  | 45  |
| 140 | Directed motion of colloidal particles in a galvanic microreactor. <i>Langmuir</i> , <b>2013</b> , 29, 2498-505  | 4    | 2   |
| 139 | Cementation of colloidal particles on electrodes in a galvanic microreactor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6346-53  | 9.5  | 2   |
| 138 | Enhanced thermal decomposition of nitromethane on functionalized graphene sheets: ab initio molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19011-6 | 16.4 | 72  |
| 137 | Dielectric elastomer actuators with elastomeric electrodes. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 091907   | 3.4  | 95  |
| 136 | Functionalized graphene sheets as a versatile replacement for platinum in dye-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2794-800                          | 9.5  | 195 |
| 135 | Autonomous colloidal crystallization in a galvanic microreactor. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 074905   | 2.5  | 4   |
| 134 | Strain-induced crystallization and mechanical properties of functionalized graphene sheet-filled natural rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 718-723  | 2.6  | 81  |
| 133 | Multifunctional elastomer nanocomposites with functionalized graphene single sheets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 910-916                              | 2.6  | 73  |
| 132 | Multifunctional and Low-Density Inorganic Nanocomposites. <i>Jom</i> , <b>2012</b> , 64, 226-233   | 2.1  | 3   |
| 131 | PHONON-INDUCED ANISOTROPIC DISPERSION FORCES ON A METALLIC SUBSTRATE. <i>Nano LIFE</i> , <b>2012</b> , 02, 1240001   | 0.9  | 2   |

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|-----|--|------|-----|
| 130 | Stabilization of electrocatalytic metal nanoparticles at metal-metal oxide-graphene triple junction points. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2541-7  | 16.4 | 352 |
| 129 | Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7660-5   | 3.6  | 324 |
| 128 | Local voltage drop in a single functionalized graphene sheet characterized by Kelvin probe force microscopy. <i>Nano Letters</i> , <b>2011</b> , 11, 3543-9  | 11.5 | 75  |
| 127 | Hierarchically porous graphene as a lithium-air battery electrode. <i>Nano Letters</i> , <b>2011</b> , 11, 5071-8  | 11.5 | 871 |
| 126 | Graphene-polypyrrole nanocomposite as a highly efficient and low cost electrically switched ion exchanger for removing ClO <sub>2</sub> from wastewater. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 3633-7 | 9.5  | 89  |
| 125 | Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1079-1081  | 9.6  | 342 |
| 124 | Factors controlling the size of graphene oxide sheets produced via the graphite oxide route. <i>ACS Nano</i> , <b>2011</b> , 5, 4073-83  | 16.7 | 206 |
| 123 | Potential Distribution in Functionalized Graphene Devices Probed by Kelvin Probe Force Microscopy <b>2011</b> ,  |      | 1   |
| 122 | Structure and Energetics of Thin Film Water. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4624-4635   | 3.8  | 30  |
| 121 | High surface area tapes produced with functionalized graphene. <i>ACS Nano</i> , <b>2011</b> , 5, 5214-22  | 16.7 | 83  |
| 120 | Intrinsic Capacitance and Redox Activity of Functionalized Graphene Sheets. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20326-20334  | 3.8  | 41  |
| 119 | Sensitive immunosensor for cancer biomarker based on dual signal amplification strategy of graphene sheets and multienzyme functionalized carbon nanospheres. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2989-95            | 7.8  | 404 |
| 118 | Ternary self-assembly of ordered metal oxide-graphene nanocomposites for electrochemical energy storage. <i>ACS Nano</i> , <b>2010</b> , 4, 1587-95  | 16.7 | 731 |
| 117 | Tuning of structural color using a dielectric actuator and multifunctional compliant electrodes. <i>Applied Optics</i> , <b>2010</b> , 49, 6689-96   | 0.2  | 35  |
| 116 | A graphene-based electrochemical sensor for sensitive detection of paracetamol. <i>Talanta</i> , <b>2010</b> , 81, 7540-2  | 16.7 | 443 |
| 115 | Functionalized graphene as a catalytic counter electrode in dye-sensitized solar cells. <i>ACS Nano</i> , <b>2010</b> , 4, 6203-11   | 16.7 | 984 |
| 114 | Nitrogen-doped graphene and its electrochemical applications. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7491   |      | 934 |
| 113 | Electrochemical Performance of Graphene as Effected by Electrode Porosity and Graphene Functionalization. <i>Electroanalysis</i> , <b>2010</b> , 22, 2834-2841   | 3    | 87  |

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|-----|---|------|------|
| 112 | Constraint of DNA on functionalized graphene improves its biostability and specificity. <i>Small</i> , <b>2010</b> , 6, 1205-9  | 11   | 305  |
| 111 | Nanobiosensors: Constraint of DNA on Functionalized Graphene Improves its Biostability and Specificity <i>Small</i> 11/2010. <i>Small</i> , <b>2010</b> , 6, n/a-n/a                        | 11   | 2    |
| 110 | Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 954-957 | 5.1  | 562  |
| 109 | Thermodynamics of densification of powder compact. <i>Ceramics International</i> , <b>2009</b> , 35, 2667-2674  | 5.1  | 13   |
| 108 | Glucose oxidase-graphene-chitosan modified electrode for direct electrochemistry and glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 25, 901-5                        | 11.8 | 1026 |
| 107 | Self-assembled TiO <sub>2</sub> -graphene hybrid nanostructures for enhanced Li-ion insertion. <i>ACS Nano</i> , <b>2009</b> , 3, 907-14  | 16.7 | 1517 |
| 106 | Effect of surface polarity on the structure and dynamics of water in nanoscale confinement. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1438-46                             | 3.4  | 126  |
| 105 | Glucose biosensor based on immobilization of glucose oxidase in platinum nanoparticles/graphene/chitosan nanocomposite film. <i>Talanta</i> , <b>2009</b> , 80, 403-6                       | 6.2  | 368  |
| 104 | Functionalized graphene sheet colloids for enhanced fuel/propellant combustion. <i>ACS Nano</i> , <b>2009</b> , 3, 3945-54  | 16.7 | 185  |
| 103 | Evolution from surface-influenced to bulk-like dynamics in nanoscopically confined water. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 7973-6                                | 3.4  | 88   |
| 102 | Dissolution dynamics of thin films measured by optical reflectance. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 244710  | 3.9  | 5    |
| 101 | Inhibition and promotion of copper corrosion by CTAB in a microreactor system. <i>Langmuir</i> , <b>2008</b> , 24, 14269-75   | 4    | 31   |
| 100 | Bending properties of single functionalized graphene sheets probed by atomic force microscopy. <i>ACS Nano</i> , <b>2008</b> , 2, 2577-84   | 16.7 | 167  |
| 99  | Tip-induced orientational order of surfactant micelles on gold. <i>Langmuir</i> , <b>2008</b> , 24, 626-31  | 4    | 11   |
| 98  | Orientational Order of Molecular Assemblies on Rough Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14902-14906  | 3.8  | 21   |
| 97  | Raman spectra of graphite oxide and functionalized graphene sheets. <i>Nano Letters</i> , <b>2008</b> , 8, 36-41  | 11.5 | 3540 |
| 96  | Non-Peptide Polymeric Silicatein Mimic for Neutral pH Catalysis in the Formation of Silica. <i>Macromolecules</i> , <b>2007</b> , 40, 5710-5717   | 5.5  | 20   |
| 95  | Electric-field-induced orientation of surfactant-templated nanoscopic silica. <i>Langmuir</i> , <b>2007</b> , 23, 8156-624  |      | 4    |

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|----|---|------|------|
| 94 | Intercalation and stitching of graphite oxide with diaminoalkanes. <i>Langmuir</i> , <b>2007</b> , 23, 10644-9  | 4    | 222  |
| 93 | Single Sheet Functionalized Graphene by Oxidation and Thermal Expansion of Graphite. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4396-4404  | 9.6  | 2986 |
| 92 | Surfactant aggregates at rough solid-liquid interfaces. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8708-13   | 4    | 34   |
| 91 | Self-healing of surfactant surface micelles on millisecond time scales. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12378-9  | 16.4 | 36   |
| 90 | Silica monoliths templated on L3 liquid crystal. <i>Langmuir</i> , <b>2006</b> , 22, 325-31   | 4    | 5    |
| 89 | Anisotropic adsorption of molecular assemblies on crystalline surfaces. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16624-32  | 3.4  | 31   |
| 88 | Oxygen-driven unzipping of graphitic materials. <i>Physical Review Letters</i> , <b>2006</b> , 96, 176101   | 7.4  | 477  |
| 87 | The stability of L3 sponge phase in acidic solutions. <i>Langmuir</i> , <b>2006</b> , 22, 4060-4  | 4    | 12   |
| 86 | Functionalized single graphene sheets derived from splitting graphite oxide. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8535-9   | 3.4  | 2925 |
| 85 | Solvothermal removal of the organic template from L 3 (Sponge) templated silica monoliths. <i>Journal of Nanoparticle Research</i> , <b>2006</b> , 8, 603-614                                       | 2.3  | 11   |
| 84 | Inhibition of aluminum oxyhydroxide precipitation with citric acid. <i>Langmuir</i> , <b>2005</b> , 21, 11690-5   | 4    | 13   |
| 83 | Heteroflocculation in Binary Colloidal Suspensions: Monte Carlo Simulations. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 79, 2587-2591   | 3.8  | 7    |
| 82 | Scaling Analysis for the Axial Displacement and Pressure of Flextensional Transducers. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 1073-1078                                 | 3.8  | 30   |
| 81 | Microchannel molding: A soft lithography-inspired approach to micrometer-scale patterning. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 1995-2003                                       | 2.5  | 29   |
| 80 | Use of dielectric functions in the theory of dispersion forces. <i>Physical Review B</i> , <b>2005</b> , 71,  | 3.3  | 43   |
| 79 | Elastic and Yield Behavior of Strongly Flocculated Colloids. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 616-624   | 3.8  | 121  |
| 78 | Elastic Properties and Structure of Interpenetrating Boron Carbide/Aluminum Multiphase Composites. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 1263-1268                     | 3.8  | 32   |
| 77 | 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> , <b>2004</b> , 85, 844-850 | 3.8  | 34   |

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|----|---|-------|-----|
| 76 | Topographical Evolution of Lead Zirconate Titanate (PZT) Thin Films Patterned by Micromolding in Capillaries. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 4261-4268 | 3.4   | 53  |
| 75 | Patterning Proteins and Cells Using Two-Dimensional Arrays of Colloids. <i>Langmuir</i> , <b>2003</b> , 19, 513-518   | 4     | 36  |
| 74 | Detection of water-ice transition using a lead zirconate titanate/brass transducer. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 106-111                                   | 2.5   | 10  |
| 73 | Template-directed assembly of a de novo designed protein. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 6846-8   | 16.4  | 96  |
| 72 | Electromechanical Properties of a Ceramic d31-Gradient Flextensional Actuator. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 996-1003                          | 3.8   | 38  |
| 71 | Cure depth in photopolymerization: Experiments and theory. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 3536-3544   | 2.5   | 183 |
| 70 | Simultaneous liquid viscosity and density determination with piezoelectric unimorph cantilevers. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 1497-1505                    | 2.5   | 138 |
| 69 | Hierarchical StructurePiezoelectricity Relationships of Barium Titanate Particles. <i>Crystal Growth and Design</i> , <b>2001</b> , 1, 401-419                                      | 3.5   | 43  |
| 68 | Barium Titanate Nanoparticles in Block Copolymer. <i>Langmuir</i> , <b>2001</b> , 17, 7656-7663   | 4     | 13  |
| 67 | Continuous crystalline carbonate apatite thin films. A biomimetic approach. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2196-203                           | 16.4  | 154 |
| 66 | Disordered mesoporous silicates formed by templation of a liquid crystal (L3). <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 658, 751                      |       |     |
| 65 | Synthesis of CaCO <sub>3</sub> Thin Films via a Bioinspired Strategy: Cooperative Template-Inhibition. <i>Microscopy and Microanalysis</i> , <b>2000</b> , 6, 1070-1071             | 0.5   |     |
| 64 | An Amorphous to Crystalline Transition in the Formation of CaCO <sub>3</sub> Thin Films. <i>Microscopy and Microanalysis</i> , <b>2000</b> , 6, 1072-1073                           | 0.5   |     |
| 63 | DisorderOrder Transition in Mesoscopic Silica Thin Films. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1536-1548   | 9.6   | 43  |
| 62 | Self-assembled ceramics produced by complex-fluid templation. <i>Annual Review of Physical Chemistry</i> , <b>2000</b> , 51, 601-22   | 15.7  | 99  |
| 61 | Electromechanical Behavior of PZT-Brass Unimorphs. <i>Journal of the American Ceramic Society</i> , <b>1999</b> , 82, 1733-1740   | 3.8   | 78  |
| 60 | Nanocomposite Mullite/Mullite Powders by Spray Pyrolysis. <i>Journal of Nanoparticle Research</i> , <b>1999</b> , 1, 127-130  | 2.3   | 6   |
| 59 | Surface Micellization Patterns of Quaternary Ammonium Surfactants on Mica. <i>Langmuir</i> , <b>1999</b> , 15, 1685-1692  | 16.92 | 152 |



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|----|---|------|-----|
| 58 | Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11977-11985 | 16.4 | 250 |
| 57 | Optical transmission in highly concentrated dispersions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1998</b> , 15, 932                           | 1.8  | 31  |
| 56 | Absorption length for photon propagation in highly dense colloidal dispersions. <i>Journal of Materials Research</i> , <b>1998</b> , 13, 3463-3467  | 2.5  | 6   |
| 55 | Self-Assembly Structures of Nonionic Surfactants at Graphite/Solution Interfaces. <i>Langmuir</i> , <b>1997</b> , 13, 4349-4356   | 4    | 168 |
| 54 | Porphyrim Amphiphiles as Templates for the Nucleation of Calcium Carbonate. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5449-5450  | 16.4 | 77  |
| 53 | Nanoscale Patterning of Barium Titanate on Block Copolymers. <i>Langmuir</i> , <b>1997</b> , 13, 3866-3870  | 4    | 31  |
| 52 | Structure Evolution in Hydrothermally Processed (. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 239-247   | 3.8  | 96  |
| 51 | Mullite Phase Separation in Nanocomposite Powders. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1996</b> , 54, 232-233   |      |     |
| 50 | Processing of Silicon Carbide-Mullite-Alumina Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 479-486  | 3.8  | 53  |
| 49 | Elimination of an isolated pore: Effect of grain size. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 1000-1015   | 2.5  | 16  |
| 48 | The breakup of the intermediate gold aggregates. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1995</b> , 53, 196-197   |      | 2   |
| 47 | Sedimentation in flocculating colloidal suspensions. <i>Journal of Materials Research</i> , <b>1994</b> , 9, 451-461  | 2.5  | 40  |
| 46 | Equilibrium-State Density Profiles of Centrifuged Cakes. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 540-546   | 3.8  | 21  |
| 45 | Size dependence of the ferroelectric transition of small BaTiO <sub>3</sub> particles: Effect of depolarization. <i>Physical Review B</i> , <b>1994</b> , 50, 15575-15585                           | 3.3  | 157 |
| 44 | Hydrothermal Processing of BaTiO <sub>3</sub> /Polymer Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 346, 63  |      | 6   |
| 43 | Equilibrium-State Density Profiles of Centrifuged Cakes of Flocculated Suspensions. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 289, 251                                 |      | 2   |
| 42 | Consolidation Behavior of Flocculated Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 3305-3314   | 3.8  | 170 |
| 41 | Dispersion of Small Ceramic Particles (Al <sub>2</sub> O <sub>3</sub> ) with <i>Azotobacter vinelandii</i> . <i>Applied and Environmental Microbiology</i> , <b>1992</b> , 58, 3130-5               | 4.8  | 2   |



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| 40 | Nacre of abalone shell: a natural multifunctional nanolaminated ceramic-polymer composite material. <i>Results and Problems in Cell Differentiation</i> , <b>1992</b> , 19, 1-26   | 1.4 | 42  |
| 39 | A study on the formation of hydrothermally prepared BaTiO <sub>3</sub> particles. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1992</b> , 50, 304-305   |     | 1   |
| 38 | Structure-Mechanical Property Relationships In A Biological Ceramic-Polymer Composite: Nacre. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 255, 171  |     | 9   |
| 37 | Imaging Of Hierarchically Structured Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 255, 293  |     | 7   |
| 36 | A Hierarchically Structured Model Composite: A Tem Study of the Hard Tissue of Red Abalone. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 255, 9  |     | 8   |
| 35 | Clustering of binary colloidal suspensions: Experiment. <i>Journal of Colloid and Interface Science</i> , <b>1991</b> , 142, 357-368   | 9.3 | 33  |
| 34 | Symposium for Mullite Processing, Structure, and Properties. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 2341-2341  | 3.8 | 22  |
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