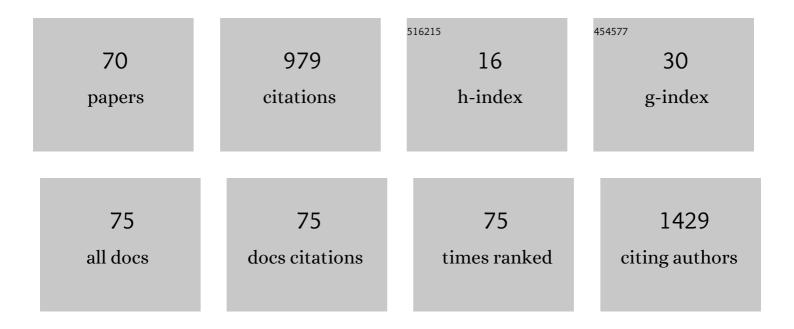
Brian S Mitchell

List of Publications by Year in descending order

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RDIAN S MITCHELL

| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | Cytotoxicity of surface-functionalized silicon and germanium nanoparticles: the dominant role of surface charges. Nanoscale, 2013, 5, 4870. | 2.8 | 161 |
| 2 | Mechanochemical Synthesis of Blue Luminescent Alkyl/Alkenylâ€Passivated Silicon Nanoparticles. Advanced Materials, 2007, 19, 3984-3988. | 11.1 | 137 |
| 3 | Magnetic properties of perovskite-derived air-synthesizedRBaCo2O5+Î′(R=Laî—,Ho)compounds. Physical Review B, 2005, 71, . | 1.1 | 81 |
| 4 | Nucleation and crystallization in calcium aluminate glasses. Journal of Non-Crystalline Solids, 1999, 255, 199-207. | 1.5 | 47 |
| 5 | Structure and interfacial properties of nanocrystalline aluminum/mullite composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 326, 317-323. | 2.6 | 42 |
| 6 | Silicon nanoparticles with chemically tailored surfaces. Applied Organometallic Chemistry, 2010, 24, 236-240. | 1.7 | 36 |
| 7 | Crystal growth kinetics of nanocrystalline aluminum prepared by mechanical attrition in nylon media. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 124-128. | 2.6 | 33 |
| 8 | Phase identification in calcia-alumina fibers crystallized from amorphous precursors. Journal of Non-Crystalline Solids, 1993, 152, 143-149. | 1.5 | 25 |
| 9 | Infrared Studies of Calcia-Alumina Fibers. Journal of the American Ceramic Society, 1996, 79, 2469-2473. | 1.9 | 24 |
| 10 | Hydration and proton conduction in Nafion/ceramic nanocomposite membranes produced by solidâ€state processing of powders from mechanical attrition. Journal of Applied Polymer Science, 2009, 113, 243-250. | 1.3 | 23 |
| 11 | Preparation of Micrometer- to Sub-micrometer-Sized Nanostructured Silica Particles Using High-Energy Ball Milling. Journal of the American Ceramic Society, 2004, 87, 1280-1286. | 1.9 | 21 |
| 12 | A Method for Determining Crystallization Kinetic Parameters from one Nonisothermal Calorimetric Experiment. Journal of Materials Research, 2000, 15, 1000-1007. | 1.2 | 20 |
| 13 | The use of polymeric milling media in the reduction of contamination during mechanical attrition. Journal of Materials Research, 2002, 17, 2997-2999. | 1.2 | 20 |
| 14 | Infrared studies of preparation effects in calcium aluminate glasses. Journal of Non-Crystalline Solids, 1998, 224, 184-190. | 1.5 | 18 |
| 15 | Crystallization kinetics of amorphous silicon carbide derived from polymeric precursors. Thermochimica Acta, 1999, 337, 155-161. | 1.2 | 17 |
| 16 | Thermal expansion behavior and microstructure in bulk nanocrystalline selenium by thermomechanical analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 270, 237-243. | 2.6 | 17 |
| 17 | Catalyzed self-aldol reaction of valeraldehyde via a mechanochemical method. Journal of Molecular Catalysis A, 2009, 304, 117-120. | 4.8 | 16 |
| 18 | Mechanochemical synthesis of functionalized silicon nanoparticles with terminal chlorine groups. Journal of Materials Research, 2011, 26, 1052-1060. | 1.2 | 16 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Mild Two-Step Method to Construct DNA-Conjugated Silicon Nanoparticles: Scaffolds for the Detection of MicroRNA-21. Bioconjugate Chemistry, 2014, 25, 1739-1743. | 1.8 | 16 |
| 20 | A fractionation process of mechanochemically synthesized blue-green luminescent alkyl-passivated silicon nanoparticles. Chemical Engineering Journal, 2011, 172, 591-600. | 6.6 | 14 |
| 21 | THE PRODUCTION OF BaO-TiO2 FIBERS VIA INVISCID MELT-SPINNING (IMS). Chemical Engineering Communications, 1991, 106, 87-92. | 1.5 | 13 |
| 22 | Mullite Decomposition Kinetics and Melt Stabilization in the Temperature Range 1900—2000°C. Journal of the American Ceramic Society, 2000, 83, 761-767. | 1.9 | 12 |
| 23 | Solidâ€state blending of poly(ethylene terephthalate) with polystyrene: Extent of compatibilization and its dependence on blend composition. Polymer Engineering and Science, 2008, 48, 649-655. | 1.5 | 12 |
| 24 | The production of mullite fibers via inviscid melt-spinning (IMS). Materials Letters, 1998, 37, 359-365. | 1.3 | 11 |
| 25 | Tuning Carbon Content and Morphology of FeCo/Graphitic Carbon Core–Shell Nanoparticles using a Saltâ€Matrixâ€Assisted CVD Process. Particle and Particle Systems Characterization, 2014, 31, 474-480. | 1.2 | 11 |
| 26 | Introduction of new reinforcement for cementitious materials—Calcia/alumina (CA) fibers formed by the inviscid melt-spinning (IMS) process. Cement and Concrete Composites, 1993, 15, 165-172. | 4.6 | 10 |
| 27 | Synchrotron infrared microspectroscopy characterization of heterogeneities in solid-state blended polymers. Materials Letters, 2007, 61, 2151-2155. | 1.3 | 9 |
| 28 | Water-soluble PEGylated silicon nanoparticles and their assembly into swellable nanoparticle aggregates. Journal of Nanoparticle Research, 2015, 17, 1. | 0.8 | 9 |
| 29 | Silicon nanoparticles synthesised through reactive high-energy ball milling: enhancement of optical properties from the removal of iron impurities. Journal of Experimental Nanoscience, 2015, 10, 1214-1222. | 1.3 | 9 |
| 30 | Attenuation effects in aluminum and lead fibers formed by inviscid melt-spinning (IMS). Materials Letters, 1990, 10, 71-74. | 1.3 | 8 |
| 31 | Fourier Transform Infrared Studies of Propane Pyrolysis over Calcium Aluminate Melts. Journal of the American Ceramic Society, 1998, 81, 1045-1049. | 1.9 | 8 |
| 32 | Wetting properties of silicon films from alkyl-passivated particles produced by mechanochemical synthesis. Journal of Colloid and Interface Science, 2010, 348, 634-641. | 5.0 | 8 |
| 33 | Viscosity of eutectic calcia-alumina melts. Materials Chemistry and Physics, 1993, 34, 81-85. | 2.0 | 7 |
| 34 | Micro-Raman analysis of calcium aluminate fibers formed by inviscid melt spinning. Materials Letters, 2000, 45, 138-142. | 1.3 | 7 |
| 35 | Formation of Nanocrystalline Silicon Carbide Powder from Chlorineâ€Containing Polycarbosilane Precursors. Journal of the American Ceramic Society, 1999, 82, 2249-2251. | 1.9 | 7 |
| 36 | Solid state blending of poly(ethylene terephthalate) with polystyrene: Extent of PET amorphization and compositional effects on crystallizability. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1348-1359. | 2.4 | 7 |

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| 37 | Functionalized silicon nanoparticles from reactive cavitation erosion of silicon wafers. Chemical Communications, 2015, 51, 1465-1468. | 2.2 | 7 |
| 38 | Crystallization and solidification studies in calcia-alumina fibres formed via inviscid melt spinning (IMS). Ceramics International, 1998, 24, 67-71. | 2.3 | 6 |
| 39 | A modified diffuse reflectance infrared Fourier transform spectroscopy cell for depth profiling of ceramic fibers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 467-473. | 2.0 | 6 |
| 40 | Chemical stability of inviscid melt-spun (IMS) fibers of calcia-alumina in aqueous media. Materials Chemistry and Physics, 1993, 34, 219-227. | 2.0 | 5 |
| 41 | Williamson ether synthesis: an efficient one-step route for surface modifications of silicon nanoparticles. Journal of Experimental Nanoscience, 2015, 10, 588-598. | 1.3 | 5 |
| 42 | Appendix 8: Electrical Conductivity of Selected Materials. , 0, , 893-899. | | 3 |
| 43 | Nanocrystallinity in heat-treated calcium aluminate fibers. Materials Letters, 2001, 48, 316-318. | 1.3 | 2 |
| 44 | Preparation and characterization of ball-milled Nafion® powders for membrane applications. Journal of Applied Polymer Science, 2004, 93, 2275-2281. | 1.3 | 2 |
| 45 | Effect of Lubricant on the Surface Structure of Aluminosilicate Fibers. Journal of the American Ceramic Society, 1998, 81, 3333-3336. | 1.9 | 1 |
| 46 | Formation of Nanocrystalline SiC Powder from Chlorine-Containing Polycarbosilane Precursors. Materials Research Society Symposia Proceedings, 1999, 581, 205. | 0.1 | 1 |
| 47 | The Structure of Materials. , 0, , 1-135. | | 1 |
| 48 | Kinetic Processes in Materials. , 0, , 215-284. | | 1 |
| 49 | Appendix 9: Refractive Index of Selected Materials. , 0, , 900-902. | | 1 |
| 50 | Mechanical and hydration properties of Nafion®/ceramic nanocomposite membranes produced by mechanical attrition. Journal of Applied Polymer Science, 2009, 111, 1144-1150. | 1.3 | 1 |
| 51 | Power law modeling of acoustic cavitation erosion: the hemispherical pit model. Journal of Physics Communications, 2019, 3, 035014. | 0.5 | 1 |
| 52 | Reactive cavitation erosion as a technique for production of functionalized copper hydroxychloride nanomaterials. Journal of Physics Communications, 2020, 4, 051002. | 0.5 | 1 |
| 53 | Binder Droplet-Fiber Interactions in the Production of Thermal Insulations. Journal of Thermal Insulation, 1991, 15, 30-44. | 0.2 | 0 |
| 54 | OPTIMIZATION OF PROCESS PARAMETERS IN THE PRODUCTION OF MULLITE FIBERS VIA INVISCID MELT-SPINNING (IMS). Chemical Engineering Communications, 1999, 173, 123-133. | 1.5 | 0 |

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| 55 | Crystallization Kinetics of Polysilane Derived SiC. Key Engineering Materials, 2001, 206-213, 55-58. | 0.4 | Ο |
| 56 | Case Studies in Materials Selection. , 0, , 814-850. | | 0 |
| 57 | Electrical, Magnetic, and Optical Properties of Materials. , 0, , 537-680. | | Ο |
| 58 | Micron to Sub-Micron Sized Highly Ordered Mesoporous Silica Particles Prepared Using a High Energy Ball Milling Process. Materials Research Society Symposia Proceedings, 2003, 775, 3291. | 0.1 | 0 |
| 59 | Processing of Materials. , 0, , 681-813. | | Ο |
| 60 | Mechanics of Materials. , 0, , 380-536. | | 0 |
| 61 | Appendix 7: Mechanical Properties of Selected Materials. , 0, , 882-892. | | Ο |
| 62 | Appendix 5: Thermal Conductivities of Selected Materials. , 0, , 874-879. | | 0 |
| 63 | Appendix 6: Diffusivities in Selected Systems. , 0, , 880-881. | | Ο |
| 64 | Thermodynamics of Condensed Phases. , 0, , 136-214. | | 0 |
| 65 | Transport Properties of Materials. , 0, , 285-379. | | Ο |
| 66 | Appendix 3: Composition of Common Alloys. , 0, , 856-868. | | 0 |
| 67 | Appendix 4: Surface and Interfacial Energies. , 0, , 869-873. | | Ο |
| 68 | Periodic Table. , 0, , 0-0. | | 0 |
| 69 | Appendix 1: Energy Values for Single Bonds. , 0, , 851-851. | | Ο |
| 70 | Appendix 2: Structure of Some Common Polymers. , 0, , 852-855. | | 0 |