

# James H Adair

## List of Publications by Year in descending order

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89  
papers

4,535  
citations

126858

33  
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all docs

90  
docs citations

90  
times ranked

6083  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Near-Infrared Emitting Fluorophore-Doped Calcium Phosphate Nanoparticles for <i>In Vivo</i> Imaging of Human Breast Cancer. <i>ACS Nano</i> , 2008, 2, 2075-2084.                       | 7.3 | 405       |
| 2  | Encapsulation of Organic Molecules in Calcium Phosphate Nanocomposite Particles for Intracellular Imaging and Drug Delivery. <i>Nano Letters</i> , 2008, 8, 4108-4115.                  | 4.5 | 277       |
| 3  | Calcium Phosphate Nanocomposite Particles for In Vitro Imaging and Encapsulated Chemotherapeutic Drug Delivery to Cancer Cells. <i>Nano Letters</i> , 2008, 8, 4116-4121.               | 4.5 | 235       |
| 4  | Preparation of Ag/SiO <sub>2</sub> Nanosize Composites by a Reverse Micelle and Sol-Gel Technique. <i>Langmuir</i> , 1999, 15, 4328-4334.   | 1.6 | 223       |
| 5  | Nanoparticulate Alternatives for Drug Delivery. <i>ACS Nano</i> , 2010, 4, 4967-4970.   | 7.3 | 190       |
| 6  | Hydrogen storage in spherical and platelet palladium nanoparticles. <i>Journal of Alloys and Compounds</i> , 2005, 389, 234-242.  | 2.8 | 176       |
| 7  | Targeted Indocyanine-Green-Loaded Calcium Phosphosilicate Nanoparticles for <i>In Vivo</i> Photodynamic Therapy of Leukemia. <i>ACS Nano</i> , 2011, 5, 5325-5337.                      | 7.3 | 169       |
| 8  | Photophysics of Cy3-Encapsulated Calcium Phosphate Nanoparticles. <i>Nano Letters</i> , 2009, 9, 1559-1566.   | 4.5 | 152       |
| 9  | Targeting V600E-B-Raf and Akt3 Using Nanoliposomal-Small Interfering RNA Inhibits Cutaneous Melanocytic Lesion Development. <i>Cancer Research</i> , 2008, 68, 7638-7649.               | 0.4 | 150       |
| 10 | Near infrared imaging with nanoparticles. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 461-477.  | 3.3 | 143       |
| 11 | Morphological control of particles. <i>Current Opinion in Colloid and Interface Science</i> , 2000, 5, 160-167.   | 3.4 | 137       |
| 12 | Hydrothermal crystallization kinetics of <i>m</i> -ZrO <sub>2</sub> and <i>t</i> -ZrO <sub>2</sub> . <i>Journal of Materials Research</i> , 1990, 5, 2698-2705.                         | 1.2 | 134       |
| 13 | Bioconjugation of Calcium Phosphosilicate Composite Nanoparticles for Selective Targeting of Human Breast and Pancreatic Cancers <i>In Vivo</i> . <i>ACS Nano</i> , 2010, 4, 1279-1287. | 7.3 | 133       |
| 14 | 3D Printing of Personalized Artificial Bone Scaffolds. <i>3D Printing and Additive Manufacturing</i> , 2015, 2, 56-64.  | 1.4 | 119       |
| 15 | X-ray diffraction and H-storage in ultra-small palladium particles. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 952-960.  | 3.8 | 111       |
| 16 | Optical Properties of Hydrothermally Synthesized Hematite Particulate Pigments. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3449-3454.                                   | 1.9 | 101       |
| 17 | Preparation of Barium Titanate Films at 55°C by an Electrochemical Method. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2619-2627.  | 1.9 | 98        |
| 18 | Effects of carbon nanofiller functionalization and distribution on interlaminar fracture toughness of multi-scale reinforced polymer composites. <i>Carbon</i> , 2012, 50, 1316-1331.   | 5.4 | 86        |

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|----|--|-----|-----------|
| 19 | Synthesis of Nanosized Silver Platelets in Octylamine-Water Bilayer Systems. <i>Langmuir</i> , 2002, 18, 8692-8699.  | 1.6 | 85        |
| 20 | Low temperature synthesis of lead titanate by a hydrothermal method. <i>Journal of Materials Research</i> , 1997, 12, 189-197.   | 1.2 | 81        |
| 21 | Low Temperature Hydrothermal Synthesis of Yttrium-Doped Zirconia Powders. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1169-1174.  | 1.9 | 79        |
| 22 | Calcium phosphate-based composite nanoparticles in bioimaging and therapeutic delivery applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2012, 4, 96-112.   | 3.3 | 79        |
| 23 | The use of nanoparticulates to treat breast cancer. <i>Nanomedicine</i> , 2017, 12, 2367-2388.   | 1.7 | 74        |
| 24 | Hydrothermal synthesis of ferroelectric perovskites from chemically modified titanium isopropoxide and acetate salts. <i>Journal of Materials Research</i> , 1999, 14, 425-435.  | 1.2 | 72        |
| 25 | Formation mechanisms and morphological changes during the hydrothermal synthesis of BaTiO <sub>3</sub> particles from a chemically modified, amorphous titanium (hydrous) oxide precursor. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2153-2161. | 2.8 | 71        |
| 26 | Photochemical Generation of Gold Nanoparticles in Langmuir-Blodgett Films. <i>Langmuir</i> , 1998, 14, 708-713.  | 1.6 | 66        |
| 27 | Synthesis and microstructure of Pd/SiO <sub>2</sub> nanosized particles by reverse micelle and sol-gel processing. <i>Journal of Materials Chemistry</i> , 2002, 12, 3117-3120.  | 6.7 | 51        |
| 28 | Oriented Lead Titanate Film Growth at Lower Temperatures by the Sol-Gel Method on Particle-Seeded Substrates. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2613-2623.  | 1.9 | 48        |
| 29 | Size Control of Alumina Particles Synthesized in 1,4-Butanediol Solution by Alumina and Hematite Seeding. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1411-1420.  | 1.9 | 46        |
| 30 | Particle-shape control and formation mechanisms of hydrothermally derived lead titanate. <i>Journal of Materials Research</i> , 1999, 14, 866-875.   | 1.2 | 38        |
| 31 | Morphological Forms of alpha-Alumina Particles Synthesized in 1,4-Butanediol Solution. <i>Journal of the American Ceramic Society</i> , 1996, 79, 88-96.   | 1.9 | 37        |
| 32 | Phase development of barium titanate from chemically modified-amorphous titanium (hydrous) oxide precursor. <i>Journal of the European Ceramic Society</i> , 2002, 22, 809-815.  | 2.8 | 35        |
| 33 | Formation and Characterization of Nanosized RDX Particles Produced Using the RESSAS Process. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 699-706.   | 1.0 | 35        |
| 34 | A Cholecystokinin B Receptor-Specific DNA Aptamer for Targeting Pancreatic Ductal Adenocarcinoma. <i>Nucleic Acid Therapeutics</i> , 2017, 27, 23-35.  | 2.0 | 34        |
| 35 | Morphological Forms of Tobermorite in Hydrothermally Treated Calcium Silicate Hydrate Gels. <i>Journal of the American Ceramic Society</i> , 1996, 79, 2175-2178.  | 1.9 | 29        |
| 36 | PhotoImmunoNanoTherapy Reveals an Anticancer Role for Sphingosine Kinase 2 and Dihydrosphingosine-1-Phosphate. <i>ACS Nano</i> , 2013, 7, 2132-2144.   | 7.3 | 28        |

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|----|---|-----|-----------|
| 37 | Design of contact-aided compliant cellular mechanisms with curved walls. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1773-1785.   | 1.4 | 26        |
| 38 | The colloidal stability of fluorescent calcium phosphosilicate nanoparticles: the effects of evaporation and redispersion on particle size distribution. <i>Nanoscale</i> , 2011, 3, 2044.                          | 2.8 | 23        |
| 39 | Aqueous Degradation and Chemical Passivation of Yttria-Tetragonally Stabilized Zirconia at 25°C. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1403-1408.  | 1.9 | 22        |
| 40 | Synthesis of Platinum/Silica Nanocomposite Particles by Reverse Micelle and Sol-Gel Processing. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1321-1323.   | 1.9 | 22        |
| 41 | Nucleation and Formation Mechanisms of Hydrothermally Derived Barium Titanate. <i>ACS Symposium Series</i> , 1997, , 106-119.   | 0.5 | 20        |
| 42 | Theoretical Modeling and Experimental Verification of Electrochemical Equilibria in the Ba-Ti-Ca-H <sub>2</sub> O System. <i>Chemistry of Materials</i> , 1999, 11, 589-599.  | 3.2 | 20        |
| 43 | Lost Mold Rapid Infiltration Forming of Mesoscale Ceramics: Part 1, Fabrication. <i>Journal of the American Ceramic Society</i> , 2009, 92, S63-S69.  | 1.9 | 20        |
| 44 | High Yield Hydrothermal Synthesis of Nano-Scale Zirconia and Y-TZP. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4239-4246.   | 1.9 | 20        |
| 45 | Gold cluster coatings enhancing Raman scattering from surfaces: Ink analysis and document identification. <i>Chemical Physics</i> , 2013, 423, 73-78.   | 0.9 | 19        |
| 46 | Recent Developments in Morphological Control of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Particles Synthesized in 1,4-Butanediol Solution. <i>Journal of Dispersion Science and Technology</i> , 2001, 22, 143-165. | 1.3 | 18        |
| 47 | Lost Mold Rapid Infiltration Forming of Mesoscale Ceramics: Part 2, Geometry and Strength Improvements. <i>Journal of the American Ceramic Society</i> , 2009, 92, S70-S78.   | 1.9 | 17        |
| 48 | Electrorheological properties of BaTiO <sub>3</sub> suspensions. <i>Ferroelectrics, Letters Section</i> , 1993, 15, 141-151.  | 0.4 | 16        |
| 49 | Adsorbate effects on glycothermally produced $\gamma$ -alumina particle morphology. <i>Journal of Crystal Growth</i> , 1999, 203, 213-226.  | 0.7 | 16        |
| 50 | Aqueous Synthesis at 200°C of Sub-10 Nanometer Yttria Tetragonally Stabilized Zirconia Using a Metal-Ligand Approach. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1133-1138.                         | 1.9 | 16        |
| 51 | A Review of the Aqueous Chemistry of the Zirconium - Water System to 200°C. <i>Materials Research Society Symposia Proceedings</i> , 1996, 432, 101.  | 0.1 | 15        |
| 52 | Novel strategies for managing pancreatic cancer. <i>World Journal of Gastroenterology</i> , 2014, 20, 14717.  | 1.4 | 15        |
| 53 | Calcium phosphate nanocomposite particles: a safer and more effective alternative to conventional chemotherapy?. <i>Future Oncology</i> , 2009, 5, 279-281.   | 1.1 | 14        |
| 54 | Synthesis of Ag/SiO <sub>2</sub> nanosize particles by reverse micelle and sol-gel processing. <i>Metals and Materials International</i> , 2001, 7, 399-402.  | 1.8 | 13        |

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|----|---|-----|-----------|
| 55 | Synthesis of nanotubular barium titanate via a hydrothermal route. Journal of Materials Research, 2005, 20, 837-843.  | 1.2 | 13        |
| 56 | Dispersion of SiO <sub>2</sub> -Based Nanocomposites with High Performance Liquid Chromatography. Journal of Physical Chemistry B, 2006, 110, 4679-4685.  | 1.2 | 13        |
| 57 | Low-temperature Electrochemical Synthesis of ZrO <sub>2</sub> Films on Zirconium Substrates: Deposition of Thick Amorphous Films and <i>in situ</i> Crystallization on Zirconium Anode. Journal of the American Ceramic Society, 1997, 80, 3187-3192.                                 | 1.9 | 12        |
| 58 | Effective encapsulation and biological activity of phosphorylated chemotherapeutics in calcium phosphosilicate nanoparticles for the treatment of pancreatic cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2313-2324.  | 1.7 | 11        |
| 59 | All-steel and Si <sub>3</sub> N <sub>4</sub> -steel hybrid rolling contact fatigue under contaminated conditions. Wear, 2000, 239, 176-188.   | 1.5 | 10        |
| 60 | Preparation and Characterization of Barium Titanate Electrolytic Capacitors from Porous Titanium Anodes. Journal of the American Ceramic Society, 1998, 81, 2429-2442.  | 1.9 | 10        |
| 61 | Optical properties of core-shell structured Ag/SiO <sub>2</sub> nanocomposites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 235-238.   | 1.7 | 9         |
| 62 | Evaluation of the hydrodynamic behavior of powders of varying cohesivity in a fluidized bed using the FT4 Powder Rheometer <sup>®</sup> . Powder Technology, 2020, 371, 106-114.  | 2.1 | 8         |
| 63 | Evaluation of the calcium oxalate monohydrate Hamaker constant based on static dielectric constant determination and electronic polarization. Colloids and Surfaces B: Biointerfaces, 1997, 10, 13-21.  | 2.5 | 7         |
| 64 | Aptamer-Targeted Calcium Phosphosilicate Nanoparticles for Effective Imaging of Pancreatic and Prostate Cancer. International Journal of Nanomedicine, 2021, Volume 16, 2297-2309.  | 3.3 | 7         |
| 65 | Double Injection Synthesis and Dispersion of Submicrometer Barium Titanate Oxalate Tetrahydrate. Journal of the American Ceramic Society, 2001, 84, 1172-1174.  | 1.9 | 6         |
| 66 | Yield improvement for lost mould rapid infiltration forming process by a multistage fractional factorial split plot design. International Journal of Nanomanufacturing, 2009, 3, 351.   | 0.3 | 6         |
| 67 | A Critical Assessment of Nanometer-scale Zirconia Green Body Formation by Pressure Filtration and Uniaxial Compaction. Journal of the American Ceramic Society, 2011, 94, 4200-4206.  | 1.9 | 6         |
| 68 | Near-infrared luminescence of ferric oxide particles. Materials Letters, 2006, 60, 2013-2016.   | 1.3 | 5         |
| 69 | Robust parameter design for multiple-stage nanomanufacturing. IIE Transactions, 2012, 44, 580-589.  | 2.1 | 5         |
| 70 | A two-material topology optimization method for structures under steady thermo-mechanical loading. Journal of Intelligent Material Systems and Structures, 2019, 30, 1717-1726.   | 1.4 | 5         |
| 71 | Preferential uptake of antibody targeted calcium phosphosilicate nanoparticles by metastatic triple negative breast cancer cells in co-cultures of human metastatic breast cancer cells plus bone osteoblasts. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 34, 102383. | 1.7 | 5         |
| 72 | Deposition of diamond from alcohol precursors in an electron cyclotron resonance plasma system. Journal of Electronic Materials, 1997, 26, 1326-1330.   | 1.0 | 4         |

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|----|--|-----|-----------|
| 73 | Hydrothermal synthesis of lead titanate and lead zirconate titanate electroceramic particles. Chemical Engineering Communications, 2003, 190, 843-852.   | 1.5 | 4         |
| 74 | Evaluation of Dispersion Methods for Silica-Based Composite Nanoparticles. Journal of the American Ceramic Society, 2006, 89, 060613004617006-???  | 1.9 | 4         |
| 75 | Palladium infiltration in high surface area microporous silica nanoparticles. Materials Letters, 2006, 60, 3573-3576.  | 1.3 | 4         |
| 76 | Effect of diazotization and magnetic assembly on CNT dispersion observed with hardness and modulus measurement of their epoxy composite of low CNT volume fraction. Journal of Nanoparticle Research, 2019, 21, 1. | 0.8 | 4         |
| 77 | Calcium phosphosilicate nanoparticles for imaging and photodynamic therapy of cancer. Discovery Medicine, 2012, 13, 275-85.  | 0.5 | 4         |
| 78 | Application of Chemical Principles in the Solution Synthesis and Processing of Ceramic and Metal Particles. ACS Symposium Series, 1997, , 82-94.   | 0.5 | 3         |
| 79 | High-Temperature Synthesis of Materials: Glycothermal Synthesis of Alpha Aluminum Oxide. ACS Symposium Series, 1997, , 120-133.  | 0.5 | 3         |
| 80 | High surface area microporous tabular SiO <sub>2</sub> nanoparticles synthesized from octylamine/water bilayer systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 286, 27-32.        | 2.3 | 2         |
| 81 | Design, fabrication, and testing of contact-aided compliant cellular mechanisms with curved walls. , 2011, , .   |     | 2         |
| 82 | Interaction Energies in the Coagulation of Calcium Oxalate Monohydrate. American Journal of Kidney Diseases, 1991, 17, 396-397.  | 2.1 | 1         |
| 83 | Silica Encapsulated CdS Tabular Nanocomposites via a Template Directed Agglomeration Mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 5878-5886.   | 0.9 | 1         |
| 84 | Effects of Particulate Debris Morphology on the Rolling Wear Behavior of All-Steel and Si <sub>3</sub> N <sub>4</sub> -Steel Bearing Element Couples. Ceramic Engineering and Science Proceedings, 0, , 123-132.   | 0.1 | 1         |
| 85 | Synthesis of Calcium Carbonate Particles in Octylamine/Water Bilayer Systems. KONA Powder and Particle Journal, 2014, 31, 156-162.   | 0.9 | 1         |
| 86 | Nucleation-Based Control of Low-Temperature Diamond Film Deposition on Optical Substrates. Materials Research Society Symposia Proceedings, 1997, 472, 367.  | 0.1 | 0         |
| 87 | Synthesis and Microstructure of TiO <sub>2</sub> -SiO <sub>2</sub> Nanoparticles by a Reverse Micelle and Sol-Gel Processing. Key Engineering Materials, 2006, 317-318, 227-230.                                   | 0.4 | 0         |
| 88 | Characterization of Calcium Phosphosilicate (Hydrate) Nanoparticles: Novel Organic-Inorganic Composite Nanomaterial for Drug and Diagnostic Delivery. Microscopy and Microanalysis, 2018, 24, 1252-1253.           | 0.2 | 0         |
| 89 | BENEFITS OF THE RESOLV PROCESS IN FORMING POLYMER-COATED, ULTRAFINE RDX PARTICLES. International Journal of Energetic Materials and Chemical Propulsion, 2011, 10, 455-468.  | 0.2 | 0         |