

James H Adair

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.

88

papers

3,957

citations

32

h-index

62

g-index

90

ext. papers

4,230

ext. citations

4.8

avg, IF

5.04

L-index

#	Paper	IF	Citations
88	Aptamer-Targeted Calcium Phosphosilicate Nanoparticles for Effective Imaging of Pancreatic and Prostate Cancer. <i>International Journal of Nanomedicine</i> , 2021 , 16, 2297-2309	7.3	2
87	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. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 34, 102383	6	1
86	Evaluation of the hydrodynamic behavior of powders of varying cohesivity in a fluidized bed using the FT4 Powder Rheometer. <i>Powder Technology</i> , 2020 , 371, 106-114	5.2	4
85	A two-material topology optimization method for structures under steady thermo-mechanical loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 1717-1726	2.3	2
84	Effect of diazotization and magnetic assembly on CNT dispersion observed with hardness and modulus measurement of their epoxy composite of low CNT volume fraction. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	3
83	Characterization of Calcium Phosphosilicate (Hydrate) Nanoparticles: Novel Organic-Inorganic Composite Nanomaterial for Drug and Diagnostic Delivery. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1252-1253	9.5	5
82	The use of nanoparticulates to treat breast cancer. <i>Nanomedicine</i> , 2017 , 12, 2367-2388	5.6	48
81	Effective encapsulation and biological activity of phosphorylated chemotherapeutics in calcium phosphosilicate nanoparticles for the treatment of pancreatic cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2313-2324	6	9
80	A Cholecystokinin B Receptor-Specific DNA Aptamer for Targeting Pancreatic Ductal Adenocarcinoma. <i>Nucleic Acid Therapeutics</i> , 2017 , 27, 23-35	4.8	22
79	3D Printing of Personalized Artificial Bone Scaffolds. <i>3D Printing and Additive Manufacturing</i> , 2015 , 2, 56-64	4	79
78	Novel strategies for managing pancreatic cancer. <i>World Journal of Gastroenterology</i> , 2014 , 20, 14717-25	5.6	12
77	Synthesis of Calcium Carbonate Particles in Octylamine/Water Bilayer Systems. <i>KONA Powder and Particle Journal</i> , 2014 , 31, 156-162	3.4	1
76	Gold cluster coatings enhancing Raman scattering from surfaces: Ink analysis and document identification. <i>Chemical Physics</i> , 2013 , 423, 73-78	2.3	17
75	PhotoImmunoNanoTherapy reveals an anticancer role for sphingosine kinase 2 and dihydrosphingosine-1-phosphate. <i>ACS Nano</i> , 2013 , 7, 2132-44	16.7	27
74	Formation and Characterization of Nano-sized RDX Particles Produced Using the RESS-AS Process. <i>Propellants, Explosives, Pyrotechnics</i> , 2012 , 37, 699-706	1.7	28
73	Design of contact-aided compliant cellular mechanisms with curved walls. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 1773-1785	2.3	21
72	Calcium phosphate-based composite nanoparticles in bioimaging and therapeutic delivery applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2012 , 4, 96-112	9.2	66

71	Effects of carbon nanofiller functionalization and distribution on interlaminar fracture toughness of multi-scale reinforced polymer composites. <i>Carbon</i> , 2012 , 50, 1316-1331	10.4	71
70	Robust parameter design for multiple-stage nanomanufacturing. <i>IIE Transactions</i> , 2012 , 44, 580-589		5
69	Calcium phosphosilicate nanoparticles for imaging and photodynamic therapy of cancer. <i>Discovery Medicine</i> , 2012 , 13, 275-85	2.5	4
68	Design, fabrication, and testing of contact-aided compliant cellular mechanisms with curved walls 2011 ,		2
67	Targeted indocyanine-green-loaded calcium phosphosilicate nanoparticles for in vivo photodynamic therapy of leukemia. <i>ACS Nano</i> , 2011 , 5, 5325-37	16.7	150
66	A Critical Assessment of Nanometer-Scale Zirconia Green Body Formation by Pressure Filtration and Uniaxial Compaction. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4200-4206	3.8	3
65	High Yield Hydrothermal Synthesis of Nano-Scale Zirconia and YTZP. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4239-4246	3.8	13
64	The colloidal stability of fluorescent calcium phosphosilicate nanoparticles: the effects of evaporation and redispersion on particle size distribution. <i>Nanoscale</i> , 2011 , 3, 2044-53	7.7	19
63	Bioconjugation of calcium phosphosilicate composite nanoparticles for selective targeting of human breast and pancreatic cancers in vivo. <i>ACS Nano</i> , 2010 , 4, 1279-87	16.7	123
62	Nanoparticulate alternatives for drug delivery. <i>ACS Nano</i> , 2010 , 4, 4967-70	16.7	163
61	Optical properties of core-shell structured Ag/SiO ₂ nanocomposites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 166, 235-238	3.1	8
60	Near infrared imaging with nanoparticles. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010 , 2, 461-77	9.2	118
59	Lost Mold Rapid Infiltration Forming of Mesoscale Ceramics: Part 1, Fabrication. <i>Journal of the American Ceramic Society</i> , 2009 , 92, S63-S69	3.8	18
58	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	3.8	16
57	X-ray diffraction and H-storage in ultra-small palladium particles. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 952-960	6.7	97
56	Photophysics of Cy3-encapsulated calcium phosphate nanoparticles. <i>Nano Letters</i> , 2009 , 9, 1559-66	11.5	131
55	Yield improvement for lost mould rapid infiltration forming process by a multistage fractional factorial split plot design. <i>International Journal of Nanomanufacturing</i> , 2009 , 3, 351-367	0.7	6
54	Near-infrared emitting fluorophore-doped calcium phosphate nanoparticles for in vivo imaging of human breast cancer. <i>ACS Nano</i> , 2008 , 2, 2075-84	16.7	372

53	Encapsulation of organic molecules in calcium phosphate nanocomposite particles for intracellular imaging and drug delivery. <i>Nano Letters</i> , 2008 , 8, 4108-15	11.5	252
52	Calcium phosphate nanocomposite particles for in vitro imaging and encapsulated chemotherapeutic drug delivery to cancer cells. <i>Nano Letters</i> , 2008 , 8, 4116-21	11.5	214
51	Silica encapsulated CdS tabular nanocomposites via a template directed agglomeration mechanism. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5878-86	1.3	1
50	Targeting V600EB-Raf and Akt3 using nanoliposomal-small interfering RNA inhibits cutaneous melanocytic lesion development. <i>Cancer Research</i> , 2008 , 68, 7638-49	10.1	136
49	Near-infrared luminescence of ferric oxide particles. <i>Materials Letters</i> , 2006 , 60, 2013-2016	3.3	5
48	Palladium infiltration in high surface area microporous silica nanoparticles. <i>Materials Letters</i> , 2006 , 60, 3573-3576	3.3	3
47	Synthesis and Microstructure of TiO ₂ -SiO ₂ Nanoparticles by a Reverse Micelle and Sol-Gel Processing. <i>Key Engineering Materials</i> , 2006 , 317-318, 227-230	0.4	
46	Dispersion of SiO ₂ -based nanocomposites with high performance liquid chromatography. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4679-85	3.4	13
45	Evaluation of Dispersion Methods for Silica-Based Composite Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060613004617006-???	3.8	1
44	High surface area microporous tabular SiO ₂ nanoparticles synthesized from octylamine/water bilayer systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 286, 27-32	5.1	2
43	Hydrogen storage in spherical and platelet palladium nanoparticles. <i>Journal of Alloys and Compounds</i> , 2005 , 389, 234-242	5.7	161
42	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> , 2005 , 80, 2613-2623	3.8	36
41	Low-Temperature Electrochemical Synthesis of ZrO ₂ Films on Zirconium Substrates: Deposition of Thick Amorphous Films and in situ Crystallization on Zirconium Anode. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3187-3192	3.8	11
40	Size Control of γ -Alumina Particles Synthesized in 1,4-Butanediol Solution by γ -Alumina and α -Hematite Seeding. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1411-1420	3.8	39
39	Preparation and Characterization of Barium Titanate Electrolytic Capacitors from Porous Titanium Anodes. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2429-2442	3.8	6
38	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	3.8	13
37	Optical Properties of Hydrothermally Synthesized Hematite Particulate Pigments. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3449-3454	3.8	88
36	Synthesis of nanotubular barium titanate via a hydrothermal route. <i>Journal of Materials Research</i> , 2005 , 20, 837-843	2.5	12

35	Low-Temperature Hydrothermal Synthesis of Yttrium-Doped Zirconia Powders. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1169-1174	3.8	63
34	Synthesis of Platinum/Silica Nanocomposite Particles by Reverse Micelle and Sol-Gel Processing. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1321-1323	3.8	21
33	Formation mechanisms and morphological changes during the hydrothermal synthesis of BaTiO ₃ particles from a chemically modified, amorphous titanium (hydrous) oxide precursor. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 2153-2161	6	67
32	Hydrothermal synthesis of lead titanate and lead zirconate titanate electroceramic particles. <i>Chemical Engineering Communications</i> , 2003 , 190, 843-852	2.2	2
31	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	6	33
30	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	3.8	20
29	Synthesis and microstructure of Pd/SiO ₂ nanosized particles by reverse micelle and sol-gel processing. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3117-3120		46
28	Synthesis of Nanosized Silver Platelets in Octylamine-Water Bilayer Systems. <i>Langmuir</i> , 2002 , 18, 8692-8699		80
27	Synthesis of Ag/SiO ₂ nanosize particles by reverse micelle and sol-gel processing. <i>Metals and Materials International</i> , 2001 , 7, 399-402	2.4	12
26	Double Injection Synthesis and Dispersion of Submicrometer Barium Titanate Oxalate Tetrahydrate. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 1172-1174	3.8	3
25	Recent Developments in Morphological Control of Al ₂ O ₃ Particles Synthesized in 1,4-Butanediol Solution. <i>Journal of Dispersion Science and Technology</i> , 2001 , 22, 143-165	1.5	18
24	All-steel and Si ₃ N ₄ -steel hybrid rolling contact fatigue under contaminated conditions. <i>Wear</i> , 2000 , 239, 176-188	3.5	7
23	Morphological control of particles. <i>Current Opinion in Colloid and Interface Science</i> , 2000 , 5, 160-167	7.6	128
22	Particle-shape control and formation mechanisms of hydrothermally derived lead titanate. <i>Journal of Materials Research</i> , 1999 , 14, 866-875	2.5	35
21	Hydrothermal synthesis of ferroelectric perovskites from chemically modified titanium isopropoxide and acetate salts. <i>Journal of Materials Research</i> , 1999 , 14, 425-435	2.5	66
20	Adsorbate effects on hydrothermally produced alumina particle morphology. <i>Journal of Crystal Growth</i> , 1999 , 203, 213-226	1.6	16
19	Preparation of Ag/SiO ₂ Nanosize Composites by a Reverse Micelle and Sol-Gel Technique. <i>Langmuir</i> , 1999 , 15, 4328-4334	4	198
18	Theoretical Modeling and Experimental Verification of Electrochemical Equilibria in the BaTiO ₃ -H ₂ O System. <i>Chemistry of Materials</i> , 1999 , 11, 589-599	9.6	20

17	Photochemical Generation of Gold Nanoparticles in Langmuir-Blodgett Films. <i>Langmuir</i> , 1998 , 14, 708-713		60
16	Low temperature synthesis of lead titanate by a hydrothermal method. <i>Journal of Materials Research</i> , 1997 , 12, 189-197	2.5	78
15	Nucleation-Based Control of Low-Temperature Diamond Film Deposition on Optical Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 472, 367		
14	Nucleation and Formation Mechanisms of Hydrothermally Derived Barium Titanate. <i>ACS Symposium Series</i> , 1997 , 106-119	0.4	20
13	Application of Chemical Principles in the Solution Synthesis and Processing of Ceramic and Metal Particles. <i>ACS Symposium Series</i> , 1997 , 82-94	0.4	3
12	High-Temperature Synthesis of Materials: Hydrothermal Synthesis of Alpha Aluminum Oxide. <i>ACS Symposium Series</i> , 1997 , 120-133	0.4	3
11	Deposition of diamond from alcohol precursors in an electron cyclotron resonance plasma system. <i>Journal of Electronic Materials</i> , 1997 , 26, 1326-1330	1.9	4
10	Evaluation of the calcium oxalate monohydrate Hamaker constant based on static dielectric constant determination and electronic polarization. <i>Colloids and Surfaces B: Biointerfaces</i> , 1997 , 10, 13-21	6	7
9	A Review of the Aqueous Chemistry of the Zirconium - Water System to 200°C. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 432, 101		11
8	Morphological Forms of γ -Alumina Particles Synthesized in 1,4-Butanediol Solution. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 88-96	3.8	33
7	Morphological Forms of Tobermorite in Hydrothermally Treated Calcium Silicate Hydrate Gels. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2175-2178	3.8	26
6	Electrorheological properties of BaTiO ₃ suspensions. <i>Ferroelectrics, Letters Section</i> , 1993 , 15, 141-151	0.5	15
5	Preparation of Barium Titanate Films at 55°C by an Electrochemical Method. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2619-2627	3.8	81
4	Interaction energies in the coagulation of calcium oxalate monohydrate. <i>American Journal of Kidney Diseases</i> , 1991 , 17, 396-7	7.4	1
3	Hydrothermal crystallization kinetics of m-ZrO ₂ and t-ZrO ₂ . <i>Journal of Materials Research</i> , 1990 , 5, 2698-2705	3.05	113
2	Controlling Interfacial Chemistry During the Processing of Micron Scale Surgical Instruments. <i>Ceramic Transactions</i> , 179-184	0.1	
1	Effects of Particulate Debris Morphology on the Rolling Wear Behavior of All-Steel and Si ₃ N ₄ -Steel Bearing Element Couples. <i>Ceramic Engineering and Science Proceedings</i> , 123-132	0.1	1