

James O Kiggans

List of Publications by Year in descending order

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41
papers

2,411
citations

361413

20
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

3081
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . Journal of the American Chemical Society, 2013, 135, 975-978.	13.7	709
2	Mesoporous Carbon for Capacitive Deionization of Saline Water. Environmental Science & Technology, 2011, 45, 10243-10249.	10.0	351
3	Synthesis and circularization of N- and B-tropic retroviral DNA Fv-1 permissive and restrictive mouse cells.. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 2994-2998.	7.1	124
4	Grain Growth in Microwave-Annealed Alumina. Journal of the American Ceramic Society, 1991, 74, 1675-1681.	3.8	109
5	Enhanced diffusion in sapphire during microwave heating. Journal of Materials Science, 1997, 32, 1347-1355.	3.7	104
6	Fabrication and characterization of fully ceramic microencapsulated fuels. Journal of Nuclear Materials, 2012, 426, 268-276.	2.7	102
7	Optimization of LiFePO_4 Nanoparticle Suspensions with Polyethyleneimine for Aqueous Processing. Langmuir, 2012, 28, 3783-3790.	3.5	89
8	Lithium Ion Cell Performance Enhancement Using Aqueous LiFePO_4 Cathode Dispersions and Polyethyleneimine Dispersant. Journal of the Electrochemical Society, 2013, 160, A201-A206.	2.9	88
9	Optimization of multicomponent aqueous suspensions of lithium iron phosphate (LiFePO_4) nanoparticles and carbon black for lithium-ion battery cathodes. Journal of Colloid and Interface Science, 2013, 405, 118-124.	9.4	69
10	Thermoelectric and mechanical properties of multi-walled carbon nanotube doped $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ thermoelectric material. Applied Physics Letters, 2013, 103, .	3.3	69
11	Superior Performance of LiFePO_4 Aqueous Dispersions via Corona Treatment and Surface Energy Optimization. Journal of the Electrochemical Society, 2012, 159, A1152-A1157.	2.9	65
12	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. Journal of the Electrochemical Society, 2011, 158, A1060.	2.9	59
13	Progress on matrix SiC processing and properties for fully ceramic microencapsulated fuel form. Journal of Nuclear Materials, 2015, 457, 9-17.	2.7	54
14	Electrochemical Stability of Carbon Fibers Compared to Aluminum as Current Collectors for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2012, 159, A1652-A1658.	2.9	48
15	Cold compaction study of Armstrong Process [®] Ti-6Al-4V powders. Powder Technology, 2011, 214, 194-199.	4.2	46
16	The investigation of die-pressing and sintering behavior of ITP CP-Ti and Ti-6Al-4V powders. Journal of Alloys and Compounds, 2012, 541, 440-447.	5.5	40
17	Low-temperature exfoliation of multilayer-graphene material from FeCl_3 and CH_3NO_2 co-intercalated graphite compound. Chemical Communications, 2011, 47, 5265.	4.1	39
18	Consolidation Process in Near Net Shape Manufacturing of Armstrong CP-Ti/Ti-6Al-4V Powders. Key Engineering Materials, 0, 436, 103-111.	0.4	29

#	ARTICLE	IF	CITATIONS
19	Carbon Fiber Paper Cathodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A1323.	2.9	25
20	Fabrication and preliminary evaluation of metal matrix microencapsulated fuels. Journal of Nuclear Materials, 2012, 427, 79-86.	2.7	25
21	Development of Thermoelectric Fibers for Miniature Thermoelectric Devices. Journal of Electronic Materials, 2016, 45, 1412-1418.	2.2	22
22	Microwave Processing of Ceramics: Guidelines Used at the Oak Ridge National Laboratory. Materials Research Society Symposia Proceedings, 1992, 269, 173.	0.1	21
23	Neutron imaging of ion transport in mesoporous carbon materials. Physical Chemistry Chemical Physics, 2013, 15, 11740.	2.8	17
24	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. Journal of the Electrochemical Society, 2014, 161, A2210-A2215.	2.9	17
25	Current Status of Ti PM: Progress, Opportunities and Challenges. Key Engineering Materials, 2012, 520, 1-7.	0.4	12
26	Hydrothermal corrosion of silicon carbide joints without radiation. Journal of Nuclear Materials, 2016, 481, 226-233.	2.7	11
27	Enhancement of electrosorption rates using low-amplitude, high-frequency, pulsed electrical potential. Separation and Purification Technology, 2014, 129, 18-24.	7.9	10
28	Ultrasonic modification of alumina powder during wet-ball milling. Materials Letters, 1996, 26, 241-243.	2.6	8
29	Experimental Study of the Maximum Resolution and Packing Density Achievable in Sintered and Non-Sintered Binder-Jet 3D Printed Steel Microchannels. , 2015, , .		8
30	Low-density silicon nitride beads as high-temperature microwave furnace insulation. Materials Research Bulletin, 1997, 32, 749-754.	5.2	6
31	Laser ion source development at Holifield Radioactive Ion Beam Facility. Review of Scientific Instruments, 2012, 83, 02A904.	1.3	6
32	Restricted infectivity of ecotropic type C retroviruses in mouse teratocarcinoma cells: Studies on viral DNA intermediates. Journal of Supramolecular Structure, 1980, 14, 223-232.	2.3	5
33	Facility for high-heat flux testing of irradiated fusion materials and components using infrared plasma arc lamps. Physica Scripta, 2014, T159, 014007.	2.5	5
34	Microwave Thermal Etching of Stabilized Zirconia. Journal of the American Ceramic Society, 1992, 75, 3462-3464.	3.8	4
35	Modeling and processing of liquid-phase-sintered TiAl during high-density infrared processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1289-1299.	2.2	3
36	In situ ceramic layer growth on coated fuel particles dispersed in a zirconium metal matrix. Journal of Nuclear Materials, 2013, 437, 171-177.	2.7	3

#	ARTICLE	IF	CITATIONS
37	Characterization of Sintered Reaction-Bonded Silicon Nitride Processed by Microwave Heating. Materials Research Society Symposia Proceedings, 1992, 269, 285.	0.1	2
38	High-temperature deformation and fracture processes in sintered reaction-bonded silicon nitride. Journal of Materials Science, 1996, 31, 6477-6483.	3.7	2
39	Effect of Composition on the Phase Structure and Magnetic Properties of Ball-Milled LaFe _{11.71-x} Mn _x Si _{1.29} H _{1.6} Magnetocaloric Powders. Magnetochemistry, 2021, 7, 132.	2.4	2
40	Variation of Long-Terminal-Repeat Size in Molecular Clones of the BALB/c Endogenous Ecotropic Murine Leukemia Virus. Progress in Molecular Biology and Translational Science, 1983, 29, 205-213.	1.9	0
41	SEM of Carbon Coated LiFePO ₄ Through Silicon Nitride Windows in Liquid. Microscopy and Microanalysis, 2009, 15, 1448-1449.	0.4	0