

M Grant Norton

List of Publications by Year in descending order

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70
papers

1,879
citations

304743

22
h-index

302126

39
g-index

76
all docs

76
docs citations

76
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in the application of nanotechnology in enabling a "hydrogen economy". Journal of Materials Science, 2008, 43, 5395-5429.	3.7	221
2	Ceramic Materials. , 2013, , .		192
3	Silicon Carbide Nanosprings. Nano Letters, 2003, 3, 983-987.	9.1	153
4	Nanosprings. Applied Physics Letters, 2001, 79, 1540-1542.	3.3	140
5	Basic Ionic Liquids: Facile Solvents for Carbon-Carbon Bond Formation Reactions and Ready Access to Palladium Nanoparticles. European Journal of Organic Chemistry, 2007, 2007, 5095-5100.	2.4	79
6	Synthesis and applications of molybdenum (IV) oxide. Journal of Materials Science, 2012, 47, 2057-2071.	3.7	63
7	Pulsed-Laser Deposition of Barium Titanate Thin Films. Journal of the American Ceramic Society, 1992, 75, 1999-2002.	3.8	44
8	Controlled Growth of Gold Nanoparticles on Silica Nanowires. Journal of Materials Research, 2005, 20, 3021-3027.	2.6	41
9	Application of a NiMo-Ce0.5Zr0.5O2-Î catalyst for solid oxide fuel cells running on gasoline. Journal of Power Sources, 2019, 435, 226732.	7.8	39
10	Pulsed-laser deposition of polytetrafluoroethylene. Journal of Materials Research, 1995, 10, 1038-1043.	2.6	38
11	Optical properties of ZnO and MgZnO nanocrystals below and at the phase separation range. Journal of Applied Physics, 2008, 104, .	2.5	36
12	Synthesis and performance of ceria-zirconia supported Ni-Mo nanoparticles for partial oxidation of isooctane. Applied Catalysis B: Environmental, 2017, 212, 97-105.	20.2	36
13	Review: Isolation and Detection of Tumor-Derived Extracellular Vesicles. ACS Applied Nano Materials, 2018, 1, 2004-2020.	5.0	36
14	Reverse water gas shift reaction over CuFe/Al2O3 catalyst in solid oxide electrolysis cell. Chemical Engineering Journal, 2018, 336, 20-27.	12.7	34
15	NiMo-ceria-zirconia catalytic reforming layer for solid oxide fuel cells running on a gasoline surrogate. Applied Catalysis B: Environmental, 2018, 224, 500-507.	20.2	33
16	Plastic Deformation in Silicon Crystal Induced by Heat-Assisted Laser Shock Peening. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	30
17	Oxidation of silicon carbide and the formation of silica polymorphs. Journal of Materials Research, 2006, 21, 2550-2563.	2.6	28
18	Effect of plating temperature on Sn surface morphology. Materials Letters, 2010, 64, 1547-1550.	2.6	27

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19	Recent progress in integration of reforming catalyst on metal-supported SOFC for hydrocarbon and logistic fuels. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33523-33540.	7.1	27
20	Molybdenum dioxide-based anode for solid oxide fuel cell applications. <i>Journal of Power Sources</i> , 2013, 243, 203-210.	7.8	26
21	Template-free electrochemical synthesis of tin nanostructures. <i>Journal of Materials Science</i> , 2014, 49, 1476-1483.	3.7	25
22	Gasoline-fueled solid oxide fuel cell using MoO ₂ -Based Anode. <i>Journal of Power Sources</i> , 2014, 268, 546-549.	7.8	25
23	Enhancing the partial oxidation of gasoline with Mo-doped Ni catalysts for SOFC applications: An integrated experimental and DFT study. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118626.	20.2	24
24	Ripening of nanowire-supported gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2009, 11, 2137-2143.	1.9	22
25	1000 at 1000: Geopolymer technology—the current state of the art. <i>Journal of Materials Science</i> , 2020, 55, 13487-13489.	3.7	21
26	Probing embedded structural inhomogeneities in MgZnO alloys via selective resonant Raman scattering. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	20
27	NiMo-calcium-doped ceria catalysts for inert-substrate-supported tubular solid oxide fuel cells running on isooctane. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29367-29378.	7.1	20
28	Teflon AF/Ag nanocomposites with tailored optical properties. <i>Journal of Materials Research</i> , 2006, 21, 2168-2171.	2.6	19
29	TEM in situ lithiation of tin nanoneedles for battery applications. <i>Journal of Materials Science</i> , 2016, 51, 589-602.	3.7	19
30	Silica nanostructured platform for affinity capture of tumor-derived exosomes. <i>Journal of Materials Science</i> , 2017, 52, 6907-6916.	3.7	19
31	Catalytic partial oxidation of a biodiesel surrogate over molybdenum dioxide. <i>Fuel</i> , 2015, 146, 132-137.	6.4	17
32	NiMo-ceria-zirconia-based anode for solid oxide fuel cells operating on gasoline surrogate. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 31-39.	20.2	17
33	Metal coatings on SiC nanowires by plasma-enhanced chemical vapor deposition. <i>Journal of Materials Research</i> , 2005, 20, 549-553.	2.6	16
34	Growth mechanism of one dimensional tin nanostructures by electrodeposition. <i>Journal of Materials Science</i> , 2016, 51, 577-588.	3.7	16
35	Early stages of oxidation of aluminum nitride. <i>Journal of Materials Research</i> , 1999, 14, 2708-2711.	2.6	15
36	Nickel nanoparticles supported on silica for the partial oxidation of isooctane. <i>Applied Catalysis A: General</i> , 2017, 546, 126-135.	4.3	15

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37	Blowing of silica microforms on silicon carbide. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 251-257.	3.1	14
38	Effect of Substrate Composition on Sn Whisker Growth in Pure Sn Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 3386-3395.	2.2	14
39	UV-luminescent MgZnO semiconductor alloys: nanostructure and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2511-2520.	2.2	14
40	Ni-(Ce _{0.8-x} Ti _x)Sm _{0.2} O _{2-δ} anode for low temperature solid oxide fuel cells running on dry methane fuel. <i>Journal of Power Sources</i> , 2017, 338, 1-8.	7.8	14
41	A highly active and stable bimetallic Ni-Mo ₂ C catalyst for a partial oxidation of jet fuel. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 613-622.	20.2	13
42	Enhancement of the ultraviolet photoluminescence of ZnO films: Coatings, annealing, and environmental exposure studies. <i>AIP Advances</i> , 2020, 10, .	1.3	12
43	Nanoparticle Molybdenum Dioxide: A New Alternative Catalytic Material for Hydrogen Production via Partial Oxidation of Jet-A Fuels. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2010, 5, 110-114.	0.5	12
44	Cathode Optimization for an Inert-Substrate-Supported Tubular Solid Oxide Fuel Cell. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	10
45	The origin of asterism in almandine-pyrope garnets from Idaho. <i>Journal of Materials Science</i> , 2006, 41, 719-725.	3.7	9
46	Molybdenum carbide supported nickel-molybdenum alloys for synthesis gas production via partial oxidation of surrogate biodiesel. <i>Journal of Power Sources</i> , 2015, 294, 530-536.	7.8	9
47	Characterization of low angle grain boundaries in yttrium orthovanadate. <i>Journal of Materials Science</i> , 2005, 40, 3347-3353.	3.7	8
48	Effect of titanium doping on the structure and reducibility of nanoparticle molybdenum dioxide. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	8
49	Application of Ti-doped MoO ₂ microspheres prepared by spray pyrolysis to partial oxidation of n-dodecane. <i>Applied Catalysis A: General</i> , 2018, 553, 74-81.	4.3	8
50	Mechanistic study of the reduction of MoO ₂ to Mo ₂ C under methane pulse conditions. <i>Journal of Materials Science</i> , 2018, 53, 12816-12827.	3.7	8
51	NiMo-Ceria-Zirconia Catalyst for Inert-Substrate-Supported Tubular Solid Oxide Fuel Cells Running on Model Gasoline. <i>Energy Technology</i> , 2019, 7, 48-52.	3.8	8
52	Solid krypton in MgO. <i>Journal of Materials Research</i> , 1992, 7, 3171-3174.	2.6	7
53	Environmentally Induced Failure of Gold Jewelry Alloys. <i>Gold Bulletin</i> , 2005, 38, 113-119.	2.7	7
54	The influence of contact angle, wettability, and reactivity on the development of indirect-bonded metallizations for aluminum nitride. <i>Journal of Adhesion Science and Technology</i> , 1992, 6, 635-651.	2.6	6

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55	Surface Modification of Polytetrafluoroethylene and the Deposition of Copper Films. Materials Research Society Symposia Proceedings, 1993, 304, 97.	0.1	6
56	Phonon dynamics and anharmonicity in phase segregated structural domains of MgZnO film. Applied Physics Letters, 2014, 104, .	3.3	6
57	Electronic transport in molybdenum dioxide thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 9717-9720.	2.2	6
58	In Vitro Evaluation of the Biological Responses of Canine Macrophages Challenged with PLGA Nanoparticles Containing Monophosphoryl Lipid A. PLoS ONE, 2016, 11, e0165477.	2.5	5
59	Xenon Emission Accompanying Fracture of Xenon-Implanted Cubic Zirconia. Journal of the American Ceramic Society, 1993, 76, 2076-2080.	3.8	4
60	Examination of Particles and Outgrowths on the Surface of Epitaxial Yba2Cu3O7 Thin Films. Materials Research Society Symposia Proceedings, 1994, 341, 183.	0.1	4
61	Effect of ion fluence on the surface morphology of single crystal magnesium oxide implanted with xenon. Journal of Materials Research, 1995, 10, 2823-2828.	2.6	3
62	Indirect-Bonded Metallization of Aluminum Nitride. Materials Research Society Symposia Proceedings, 1993, 314, 223.	0.1	2
63	Observations on the Growth of YBa ₂ Cu ₃ O ₇ Thin Films at Very High Laser Fluences. Materials Research Society Symposia Proceedings, 1995, 388, 67.	0.1	2
64	Synthesis of Boron Carbide Nanowires and Nanocrystal Arrays by Plasma Enhanced Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 1998, 536, 323.	0.1	2
65	Preface 40 Years of Journal of Materials Science. Journal of Materials Science, 2006, 41, 589-591.	3.7	2
66	Partial Oxidation of Isooctane over Ru ϵ Promoted Nickel ϵ Molybdenum/Cerium ϵ Zirconium Oxide Catalyst at an Intermediate Temperature for Internal Reforming Solid Oxide Fuel Cell Applications. Energy Technology, 2021, 9, 2100064.	3.8	2
67	The inaugural William Bonfield Prize for best review paper. Journal of Materials Science, 2022, 57, 8567-8568.	3.7	2
68	Celebrating 1000 issues. Journal of Materials Science, 2020, 55, 10281-10283.	3.7	1
69	Lithiation of Tin Nanoneedles Investigated by in-situ TEM. Microscopy and Microanalysis, 2014, 20, 1978-1979.	0.4	0
70	Silicon. , 2022, , 109-127.		0