Mark A Atwater

List of Publications by Year
in descending order

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36 papers	1,761 citations	623734 14 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	3167 citing authors

#	ARTICLE	IF	CITATIONS
1	Extinction coefficient of gold nanoparticles with different sizes and different capping ligands. Colloids and Surfaces B: Biointerfaces, 2007, 58, 3-7.	5.0	1,146
2	The stabilization of nanocrystalline copper by zirconium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 250-256.	5.6	84
3	The thermal stability of nanocrystalline copper cryogenically milled with tungsten. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 226-233.	5.6	71
4	A Study on Gold Nanoparticle Synthesis Using Oleylamine as Both Reducing Agent and Protecting Ligand. Journal of Nanoscience and Nanotechnology, 2007, 7, 3126-3133.	0.9	70
5	Solid State Porous Metal Production: A Review of the Capabilities, Characteristics, and Challenges. Advanced Engineering Materials, 2018, 20, 1700766.	3.5	68
6	Deformation twins and related softening behavior in nanocrystalline Cuâ€“30% Zn alloy. Acta Materialia, 2012, 60, 3340-3349.	7.9	53
7	Binder jetting additive manufacturing of copper foam structures. Additive Manufacturing, 2020, 32, 100960.	3.0	25
8	Direct synthesis and characterization of a nonwoven structure comprised of carbon nanofibers. Carbon, 2013, 57, 363-370.	10.3	19
9	The production of carbon nanofibers and thin films on palladium catalysts from ethyleneâ€“oxygen mixtures. Carbon, 2009, 47, 2269-2280.	10.3	18
10	Studies on thermal stability, mechanical and electrical properties of nano crystalline Cu99.5Zr0.5 alloy. Journal of Alloys and Compounds, 2013, 558, 44-49.	5.5	18
11	Towards Reaching the Theoretical Limit of Porosity in Solid State Metal Foams: Intraparticle Expansion as A Primary and Additive Means to Create Porosity. Advanced Engineering Materials, 2014, 16, 190-195.	3.5	17
12	The thermal stability of nanocrystalline cartridge brass and the effect of zirconium additions. Journal of Materials Science, 2013, 48, 220-226.	3.7	16
13	Solidâ€State Foaming by Oxide Reduction and Expansion: Tailoring the Foamed Metal Microstructure in the Cuâ€“CuO System with Oxide Content and Annealing Conditions. Advanced Engineering Materials, 2016, 18, 83-95.	3.5	16
14	The effect of powder sintering on the palladium-catalyzed formation of carbon nanofibers from ethyleneâ€“oxygen mixtures. Carbon, 2010, 48, 1932-1938.	10.3	15
15	Mechanical and Electrical Characterization of Entangled Networks of Carbon Nanofibers. Materials, 2014, 7, 4845-4853.	2.9	13
16	Effect of B on the thermal stabilization of cryomilled nanocrystalline Cuâ€“Al alloy. Materialia, 2019, 5, 100253.	2.7	13
17	Formation of Carbon Nanofibers and Thin Films Catalyzed by Palladium in Ethyleneâˆ’Hydrogen Mixtures. Journal of Physical Chemistry C, 2010, 114, 5804-5810.	3.1	12
18	Synthesis, characterization and quantitative analysis of porous metal microstructures: Application to microporous copper produced by solid state foaming. AIMS Materials Science, 2016, 3, 573-590.	1.4	10

#	ARTICLE	IF	CITATIONS
19	Advancing commercial feasibility of intraparticle expansion for solid state metal foams by the surface oxidation and room temperature ball milling of copper. Journal of Alloys and Compounds, 2017, 724, 258-266.	5.5	9
20	Thermal Stability of Nanocrystalline Copper Alloyed with Antimony. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5611-5616.	2.2	8
21	Controlling carbon nanofibre morphology for improved composite reinforcement. International Journal of Materials and Structural Integrity, 2009, 3, 179.	0.1	7
22	Accelerated growth of carbon nanofibers using physical mixtures and alloys of Pd and Co in an ethyleneâ€“hydrogen environment. Carbon, 2011, 49, 1058-1066.	10.3	7
23	Parametric Effects of Mechanical Alloying on Carbon Nanofiber Catalyst Production in the Ni-Cu System. Metals, 2018, 8, 286.	2.3	7
24	Using Mechanical Alloying to Create Bimetallic Catalysts for Vapor-Phase Carbon Nanofiber Synthesis. Fibers, 2015, 3, 394-410.	4.0	6
25	Solid State Foaming of Nickel, Monel, and Copper by the Reduction and Expansion of NiO and CuO Dispersions. Advanced Engineering Materials, 2018, 20, 1800302.	3.5	6
26	Multifunctional porous catalyst produced by mechanical alloying. Materials Research Letters, 2019, 7, 131-136.	8.7	6
27	Multiscale design of nanofibrous carbon aerogels: Synthesis, properties and comparisons with other low-density carbon materials. Carbon, 2017, 124, 588-598.	10.3	5
28	Effects of milling time on the development of porosity in Cu by the reduction of CuO. AIMS Materials Science, 2017, 4, 939-955.	1.4	4
29	Getting more porosity from powder metal foams through intraparticle expansion. Metal Powder Report, 2017, 72, 392-396.	0.1	3
30	Enhanced Performance of Bimetallic Co-Pd Catalysts Prepared by Mechanical Alloying. Metals, 2019, 9, 335.	2.3	3
31	Reconsidering functional powder metallurgy with intraparticle porosity. Metal Powder Report, 2019, 74, 251-254.	0.1	2
32	Multi-stage pore development in Ag foams by the reduction of Ag2O and CuO mixtures. Materials and Design, 2020, 186, 108273.	7.0	2
33	Direct Synthesis of Nanofibrous Nonwoven Carbon Components: Initial Observations, Capabilities, and Challenges. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.7	1
34	A thermodynamic and kinetic-based grain growth model for nanocrystalline materials: Parameter sensitivity analysis and model extension. Computational Materials Science, 2017, 131, 250-265.	3.0	1
35	Direct Synthesis of Nanofibrous Nonwoven Carbon Components: Initial Observations, Capabilities and Challenges. , 2016, , .		0
36	In-Situ Formation of Carbon Nanofiber Hybrid Architectures for Functional Devices. MRS Advances, 2019, 4, 1869-1875.	0.9	0