Cyrus Zamani

List of Publications by Year
in descending order

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56	852	471371	501076
papers	citations	17	28
		h-index	g-index

56	56	56	1197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	WO3-based NO2 sensors fabricated through low frequency AC electrophoretic deposition. Sensors and Actuators B: Chemical, 2010, 146, 165-170.	4.0	75
2	Improvement of oxygen storage capacity using mesoporous ceriaâ€“zirconia solid solutions. Applied Catalysis B: Environmental, 2011, 108-109, 32-38.	10.8	72
3	Effect of Al2O3 phases on the enhancement of thermal conductivity and viscosity of nanofluids in engine oil. Heat and Mass Transfer, 2011, 47, 1401-1405.	1.2	56
4	Detection of amines with chromium-doped WO3 mesoporous material. Sensors and Actuators B: Chemical, 2009, 140, 557-562.	4.0	51
5	NO2 gas sensor fabrication through AC electrophoretic deposition from electrospun In2O3 nanoribbons. Sensors and Actuators B: Chemical, 2012, 162, 102-107.	4.0	48
6	Nanocasting Synthesis of Ultrafine WO3 Nanoparticles for Gas Sensing Applications. Nanoscale Research Letters, 2010, 5, 370-3.	3.1	45
7	Oxygen sensing with mesoporous ceriaâ€“zirconia solid solutions. Sensors and Actuators B: Chemical, 2009, 140, 216-221.	4.0	40
8	A new capacitive-type NO2 gas sensor combining an MIS with a solid electrolyte. Sensors and Actuators B: Chemical, 2005, 109, 216-220.	4.0	33
9	Fabrication of undoped-TiO2 nanostructure-based NO2 high temperature gas sensor using low frequency AC electrophoretic deposition method. Sensors and Actuators B: Chemical, 2012, 161, 401-405.	4.0	28
10	Fabrication of In2O3 based NO2 gas sensor through AC-electrophoretic deposition. Sensors and Actuators B: Chemical, 2012, 166-167, 128-134.	4.0	23
11	Effect of parameters on deposition pattern of ceramic nanoparticles in non-uniform AC electric field. Journal of Materials Science: Materials in Electronics, 2011, 22, 40-46.	1.1	22
12	Electrochemical characterization of La2NiO4-infiltrated La0.6Sr0.4Co0.2Fe0.8O3-Î´ by analysis of distribution of relaxation times. Electrochimica Acta, 2020, 353, 136520.	2.6	22
13	Role of substrate potential on filling the gap between two planar parallel electrodes in electrophoretic deposition. Materials Letters, 2010, 64, 559-561.	1.3	21
14	Phase transformation studies on YSZ doped with alumina. Part 2: Yttria segregation. Journal of Alloys and Compounds, 2010, 505, 534-541.	2.8	21
15	Sorting ZnO particles of different shapes with low frequency AC electric fields. Materials Letters, 2011, 65, 632-635.	1.3	21
16	Dielectrophoretic assembly of ZnO nanorods for gas sensing. Procedia Chemistry, 2009, 1, 947-950.	0.7	20
17	Effect of hydrothermal duration on synthesis of WO3 nanorods. Journal of Materials Science: Materials in Electronics, 2011, 22, 1264-1268.	1.1	20
18	Three-dimensional rice husk-originated mesoporous silicon and its electrical properties. Materials Today Communications, 2018, 14, 141-150.	0.9	20

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19	Mesoporous Silica: A Suitable Adsorbent for Amines. Nanoscale Research Letters, 2009, 4, 1303-8.	3.1	19
20	Effect of sintering temperature on microstructural evolution of M48 high speed tool steel bonded NbC matrix cemented carbides sintered in inert atmosphere. International Journal of Refractory Metals and Hard Materials, 2018, 74, 20-27.	1.7	18
21	Effect of dispersant on chain formation capability of TiO2 nanoparticles under low frequency electric fields for NO2 gas sensing applications. Journal of the European Ceramic Society, 2014, 34, 1201-1208.	2.8	17
22	Reversible operation of La0Â·8Sr0Â·2MnO3 oxygen electrode infiltrated with Ruddlesden-Popper and perovskite lanthanum nickel cobaltite. International Journal of Hydrogen Energy, 2018, 43, 23091-23100.	3.8	15
23	An investigation on the behavior of electrospun ZnO nanofibers under the application of low frequency AC electric fields. Journal of Materials Science: Materials in Electronics, 2011, 22, 1303-1307.	1.1	14
24	Stress distribution and hillock formation in Au/Pd thin films as a function of aging treatment in capacitor applications. Applied Surface Science, 2009, 255, 8995-8999.	3.1	12
25	Effect of Low Frequency Electric Field Parameters on Chain Formation of <scp><scp>ZnO</scp></scp> Nanoparticles for Gas Sensing Applications. Journal of the American Ceramic Society, 2012, 95, 1843-1850.	1.9	11
26	Effects of milling time and temperature on phase evolution of AISI 316 stainless steel powder and subsequent sintering. Journal of Alloys and Compounds, 2018, 766, 341-348.	2.8	11
27	Nano- and microvoid formation in ultrafine-grained martensitic Fe-Ni-Mn steel after severe cold rolling. Metals and Materials International, 2014, 20, 201-205.	1.8	10
28	Thermoplastic processing and debinding behavior of NbC-M2 high speed steel cemented carbide. Journal of Materials Processing Technology, 2019, 263, 91-100.	3.1	10
29	Toward a comprehensive microextraction/determination unit: A chip silicon rubber polyaniline-based system and its direct coupling with gas chromatography and mass spectrometry. Journal of Separation Science, 2016, 39, 4227-4233.	1.3	9
30	Dispersant-assisted low frequency electrophoretically deposited TiO2 nanoparticles in non-aqueous suspensions for gas sensing applications. Ceramics International, 2012, 38, 5613-5620.	2.3	8
31	Capacitive-type gas sensors combining silicon semiconductor and NaNO2-based solid electrolyte for NO2 detection. Sensors and Actuators B: Chemical, 2005, 109, 300-306.	4.0	7
32	Electrodeposition of NiFe/Cu multilayers from a single bath. Surface Engineering and Applied Electrochemistry, 2011, 47, 107-111.	0.3	5
33	A new technique for micro-patterning of nanoparticles on non-conductive substrate by low frequency AC electrophoresis. Journal of Materials Science: Materials in Electronics, 2011, 22, 1218-1221.	1.1	5
34	Modification of the oxygen diffusivity in limiting current oxygen sensors. Sensors and Actuators B: Chemical, 2011, 155, 489-499.	4.0	5
35	Sintering behavior of NbC based cemented carbides bonded with M2 high speed steel. Ceramics International, 2019, 45, 8616-8625.	2.3	5
36	Formation of ZnO/Ni_{0.6}Zn_{0.4}O Mixture Using Mechanical Milling of Zn-NiO. Materials Transactions, 2016, 57, 1597-1601.	0.4	4

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37	Fracture force analysis at the interface of Pd and SrTiO3. Applied Surface Science, 2009, 255, 6048-6053.	3.1	3
38	Residual Stress Relaxation Induced by Mass Transport Through Interface of the Pd/SrTiO3. Nanoscale Research Letters, 2010, 5, 709-713.	3.1	3
39	Hydrothermal synthesis of highly stabilised ZnSâ€“polystyrene hybrid nanoparticles. Micro and Nano Letters, 2011, 6, 844.	0.6	3
40	Influence of carbon content and processing treatment of metallic binder on the outgassing and sintering of NbC based cemented carbide. Ceramics International, 2020, 46, 28422-28431.	2.3	3
41	Improved mechanical properties of NbC-M2 high speed steel-based cemented carbide by addition of multi-walled carbon nanotubes. International Journal of Refractory Metals and Hard Materials, 2020, 93, 105346.	1.7	3
42	Micro and nanotechnologies for the development of an integrated chromatographic system. , 2007, , .		2
43	Giant magnetoresistance and super-paramagnetism in electrodeposited NiFe/Cu multilayers. Surface Engineering and Applied Electrochemistry, 2011, 47, 323-327.	0.3	2
44	AC Electrophoresis, a New Technique for Deposition of Ceramic Nanoparticles; Introduction, Application and Mechanism. Key Engineering Materials, 0, 507, 41-45.	0.4	2
45	Simulation of TiO 2 particle trajectory in AC electric field. Computational Materials Science, 2015, 108, 183-191.	1.4	2
46	Role of milling parameters on the mechano-chemically synthesized mesoporous nanosilicon properties for Li-ion batteries anode. Journal of Physics and Chemistry of Solids, 2020, 139, 109318.	1.9	2
47	Mesoporous ceria-zirconia solid solutions as oxygen gas sensing material using high temperature hot plates. , 2012, , .		1
48	High temperature phase stability and chemical analysis of the highly doped yttria stabilized zirconia with alumina. Ceramics International, 2012, 38, 4813-4818.	2.3	1
49	An investigation on the effect of deposition parameters on nanostructured electrode of lithium ion batteries and their performance. AIP Conference Proceedings, 2018, , .	0.3	1
50	Immobilization of functionalized gold nanoparticles in a well-organized silicon-based microextracting chip followed by online thermal desorption-gas chromatography. Microchemical Journal, 2018, 143, 205-211.	2.3	1
51	Effect of temperature on the hot formability of ductile iron in the semisolid state. International Journal of Cast Metals Research, 2003, 16, 383-386.	0.5	0
52	Graphene in Lithium-ion Batteries. , 2016, , 113-131.		0
53	Electrochemical performance and stability of LNC-infiltrated (La, Sr)MnO3 oxygen electrode. AIP Conference Proceedings, 2018, , .	0.3	0
54	Micro and Mesoporous Materials for Emerging Applications. Recent Patents on Materials Science, 2010, 3, 57-67.	0.5	0

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55	Metallic Electrodes; Restrictions and Future Prospective; A Survey on Recent Patents. Recent Patents on Materials Science, 2010, 3, 178-188.	0.5	0
56	Nano-Bio Structures Developed via Electrophoresis. Biological and Medical Physics Series, 2013, , 145-170.	0.3	0