

Simona Barison

List of Publications by Year in descending order

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109
papers

3,209
citations

172207

29
h-index

168136

53
g-index

110
all docs

110
docs citations

110
times ranked

3667
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanohorns-based nanofluids as direct sunlight absorbers. Optics Express, 2010, 18, 5179.	1.7	189
2	Potential of carbon nanohorn-based suspensions for solar thermal collectors. Solar Energy Materials and Solar Cells, 2011, 95, 2994-3000.	3.0	182
3	Experimental stability analysis of different water-based nanofluids. Nanoscale Research Letters, 2011, 6, 300.	3.1	179
4	Viscosity of water based SWCNH and TiO ₂ nanofluids. Experimental Thermal and Fluid Science, 2012, 36, 65-71.	1.5	164
5	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. 3. XPS and SIMS Characterization. Journal of Physical Chemistry B, 2004, 108, 15976-15981.	1.2	123
6	High conductivity and chemical stability of BaCe _{1-x} Y _x Zr _y O _{3-y} proton conductors prepared by a sol-gel method. Journal of Materials Chemistry, 2008, 18, 5120.	6.7	116
7	Absorption and scattering properties of carbon nanohorn-based nanofluids for direct sunlight absorbers. Nanoscale Research Letters, 2011, 6, 282.	3.1	109
8	Exceptional hydrogen permeation of all-ceramic composite robust membranes based on BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} and Y- or Gd-doped ceria. Energy and Environmental Science, 2015, 8, 3675-3686.	15.6	98
9	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. International Journal of Refrigeration, 2010, 33, 1180-1186.	1.8	82
10	Characterisation of surface oxidation of nickel-titanium alloy by ion-beam and electrochemical techniques. Electrochimica Acta, 2004, 50, 11-18.	2.6	69
11	Synthesis and Characterization of Al-Doped Mg ₂ Si Thermoelectric Materials. Journal of Electronic Materials, 2013, 42, 1956-1959.	1.0	69
12	Role of synthetic route on the transport properties of BaCe _{1-x} Y _x O ₃ proton conductor. Journal of Alloys and Compounds, 2009, 470, 477-485.	2.8	66
13	Synthesis and characterization of Bi-doped Mg ₂ Si thermoelectric materials. Journal of Solid State Chemistry, 2012, 193, 142-146.	1.4	65
14	Heat Transfer Capability of (Ethylene Glycol + Water)-Based Nanofluids Containing Graphene Nanoplatelets: Design and Thermophysical Profile. Nanoscale Research Letters, 2017, 12, 53.	3.1	62
15	Impedance spectroscopy of solutions at physiological glucose concentrations. Biophysical Chemistry, 2007, 129, 235-241.	1.5	61
16	Investigation of a single wall carbon nanohorn-based nanofluid in a full-scale direct absorption parabolic trough solar collector. Energy Conversion and Management, 2017, 150, 693-703.	4.4	58
17	Tribological Properties of Engine Oil with Carbon Nano-horns as Nano-additives. Tribology Letters, 2014, 55, 45-53.	1.2	55
18	Improved tribological and thermal properties of lubricants by graphene based nano-additives. RSC Advances, 2016, 6, 59477-59486.	1.7	50

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19	The Synthesis and Effect of Copper Nanoparticles on the Tribological Properties of Lubricant Oils. IEEE Nanotechnology Magazine, 2013, 12, 751-759.	1.1	48
20	Nano-encapsulated PCM emulsions prepared by a solvent-assisted method for solar applications. Solar Energy Materials and Solar Cells, 2019, 194, 268-275.	3.0	47
21	Development of paraffinic phase change material nanoemulsions for thermal energy storage and transport in low-temperature applications. Applied Thermal Engineering, 2019, 159, 113868.	3.0	46
22	Barium Non- σ Stoichiometry Role on the Properties of $Ba_{1+x}Ce_{0.65}Zr_{0.20}Y_{0.15}O_{3-\delta}$ Proton Conductors for SOFCs. Fuel Cells, 2008, 8, 360-368.		44
23	The contact angle of nanofluids as thermophysical property. Journal of Colloid and Interface Science, 2019, 547, 393-406.	5.0	44
24	Boosting infrared energy transfer in 3D nanoporous gold antennas. Nanoscale, 2017, 9, 915-922.	2.8	42
25	Influence of Cu, TiO_2 Nanoparticles and Carbon Nano-Horns on Tribological Properties of Engine Oil. Journal of Nanoscience and Nanotechnology, 2015, 15, 3590-3598.	0.9	38
26	Growth of <i>p</i> - and <i>n</i> -Dopable Films from Electrochemically Generated C_{60} Cations. Journal of the American Chemical Society, 2008, 130, 3788-3796.	6.6	35
27	Effect of precursors on γ -alumina electrolyte preparation. Journal of the European Ceramic Society, 2015, 35, 2099-2107.	2.8	34
28	Glasses on the seabed: surface study of chemical corrosion in sunken Roman glasses. Journal of Non-Crystalline Solids, 2004, 343, 91-100.	1.5	33
29	Hydrogen separation by thin vanadium-based multi-layered membranes. International Journal of Hydrogen Energy, 2018, 43, 3235-3243.	3.8	32
30	Effect of external magnetic field on tribological properties of goethite (α -FeOOH) based nanofluids. Tribology International, 2018, 127, 341-350.	3.0	30
31	Overview of the RFX fusion science program. Nuclear Fusion, 2011, 51, 094023.	1.6	29
32	A preliminary investigation on nanohorn toxicity in marine mussels and polychaetes. Science of the Total Environment, 2014, 468-469, 111-119.	3.9	29
33	GLASS CORROSION ACROSS THE ALPS: A SURFACE STUDY OF CHEMICAL CORROSION OF GLASSES FOUND IN MARINE AND GROUND ENVIRONMENTS*. Archaeometry, 2005, 47, 351-360.	0.6	28
34	Review on phase change material emulsions for advanced thermal management: Design, characterization and thermal performance. Renewable and Sustainable Energy Reviews, 2022, 159, 112238.	8.2	28
35	Preparation of Silver-Modified Nickel Foams by Galvanic Displacement and Their Use as Cathodes for the Reductive Dechlorination of Herbicides. ChemElectroChem, 2016, 3, 2084-2092.	1.7	27
36	Catalytic partial oxidation of methane over nanosized Rh supported on FeCrAlloy foams. International Journal of Hydrogen Energy, 2014, 39, 11473-11485.	3.8	26

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37	CO ₂ reduction to formic acid at low overpotential on BDD electrodes modified with nanostructured CeO ₂ . Journal of Materials Chemistry A, 2019, 7, 17896-17905.	5.2	25
38	Coreactant electrochemiluminescence at nanoporous gold electrodes. Electrochimica Acta, 2018, 277, 168-175.	2.6	24
39	Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffin-in-Water Nano-Emulsions. Energies, 2019, 12, 3334.	1.6	24
40	Surface chemistry study of RuO ₂ /IrO ₂ /TiO ₂ mixed-oxide electrodes. Rapid Communications in Mass Spectrometry, 2004, 18, 278-284.	0.7	23
41	Novel Au/La _{1-x} Sr _x MnO ₃ and Au/La _{1-x} Sr _x CrO ₃ composites: Catalytic activity for propane partial oxidation and reforming. Solid State Ionics, 2007, 177, 3473-3484.	1.3	23
42	Patterned nanoporous-gold thin layers: Structure control and tailoring of plasmonic properties. Microporous and Mesoporous Materials, 2012, 163, 153-159.	2.2	23
43	Surface oxidation of single wall carbon nanohorns for the production of surfactant free water-based colloids. Journal of Colloid and Interface Science, 2018, 514, 528-533.	5.0	23
44	Chemistry of cultural glasses: the early medieval glasses of Monselice's hill (Padova, Italy). Journal of Non-Crystalline Solids, 2002, 306, 249-262.	1.5	22
45	Nanocrystalline Pt thin films obtained via metal organic chemical vapor deposition on quartz and CaF ₂ substrates: an investigation of their chemico-physical properties. Thin Solid Films, 2002, 405, 81-86.	0.8	22
46	Novel Ru/La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3-δ} catalysts for propane reforming in IT-SOFCs. Solid State Ionics, 2010, 181, 285-291.	1.3	22
47	Temperature controlled photoacoustic device for thermal diffusivity measurements of liquids and nanofluids. Thermochimica Acta, 2015, 619, 48-52.	1.2	22
48	Paraffin-graphene oxide hybrid nano emulsions for thermal management systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127132.	2.3	22
49	Effect of Surface Structure on Behavior of RuO ₂ Electrodes in Sulfuric Acid Aqueous Solution. Russian Journal of Electrochemistry, 2004, 40, 1115-1122.	0.3	21
50	Surface chemistry of RuO ₂ /IrO ₂ /TiO ₂ mixed-oxide electrodes: secondary ion mass spectrometric study of the changes induced by electrochemical treatment. Rapid Communications in Mass Spectrometry, 2000, 14, 2165-2169.	0.7	19
51	A microwave-assisted sol-gel Pechini method for the synthesis of BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} powders. Materials Research Bulletin, 2010, 45, 1171-1176.	2.7	18
52	Phase Content Influence on Thermoelectric Properties of Manganese Silicide-Based Materials for Middle-High Temperatures. Journal of Electronic Materials, 2013, 42, 2020-2024.	1.0	17
53	Test Rig for High-Temperature Thermopower and Electrical Conductivity Measurements. Journal of Electronic Materials, 2013, 42, 1319-1323.	1.0	17
54	Overview of the RFX-mod fusion science programme. Nuclear Fusion, 2013, 53, 104018.	1.6	17

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55	Multilayered thin films for oxidation protection of Mg ₂ Si thermoelectric material at middle-high temperatures. <i>Thin Solid Films</i> , 2012, 526, 150-154.	0.8	16
56	RFX-mod wall conditioning by lithium pellet injection. <i>Nuclear Fusion</i> , 2012, 52, 023012.	1.6	15
57	Influence of electrochemical processing on the composition and microstructure of chemical-vapor deposited Ru and RuO ₂ nanocrystalline films. <i>Journal of Materials Chemistry</i> , 2002, 12, 1511-1518.	6.7	13
58	Tuning the thermal diffusivity of silver based nanofluids by controlling nanoparticle aggregation. <i>Nanotechnology</i> , 2013, 24, 365601.	1.3	13
59	Large Scale and Low Cost Production of Pristine and Oxidized Single Wall Carbon Nanohorns as Material for Hydrogen Storage. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 160-164.	0.4	13
60	Composite materials obtained by ion irradiation: Mn implantation in silica glass. <i>Journal of Materials Chemistry</i> , 1999, 9, 2929-2933.	6.7	12
61	Influence of Microwave-Assisted Pechini Method on La _{0.80} Sr _{0.20} Ga _{0.83} Mg _{0.17} O ₃ Ionic Conductivity. <i>Fuel Cells</i> , 2012, 12, 54-60.	1.5	12
62	Lithium wall conditioning by high frequency pellet injection in RFX-mod. <i>Journal of Nuclear Materials</i> , 2015, 463, 1138-1141.	1.3	12
63	The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 26-32.	1.0	12
64	Electrochemical preparation of nanostructured CeO ₂ -Pt catalysts on Fe-Cr-Al alloy foams for the low-temperature combustion of methanol. <i>Chemical Engineering Journal</i> , 2017, 317, 551-560.	6.6	11
65	PdAg/alumina membranes prepared by high power impulse magnetron sputtering for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7982-7989.	3.8	11
66	Single-step process to produce alumina supported hydroxy-sodalite zeolite membranes. <i>Journal of Materials Science</i> , 2019, 54, 2049-2058.	1.7	11
67	Photocatalytic Activity Dependence on the Structural Orientation of MOCVD TiO ₂ Anatase Films. <i>Journal of the Electrochemical Society</i> , 2009, 156, K233.	1.3	10
68	Highly stable core-shell Pt-CeO ₂ nanoparticles electrochemically deposited onto FeCrAlloy foam reactors for the catalytic oxidation of CO. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 404-410.	2.9	10
69	Conductivity studies of sol-gel prepared BaCe _{0.85} Zr _{0.15} O ₃ solid electrolytes using impedance spectroscopy. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2129-2141.	1.5	9
70	FIB lithography of nanoporous gold slits for extraordinary transmission. <i>Microelectronic Engineering</i> , 2012, 98, 419-423.	1.1	9
71	Investigation on the oxide-oxide galvanic displacement reactions employed in the preparation of electrocatalytic layers. <i>Electrochimica Acta</i> , 2020, 341, 136056.	2.6	9
72	SIMS and HR-XPS characterization of lithiated graphite from the magnetic fusion device RFX-mod. <i>Applied Surface Science</i> , 2021, 567, 150830.	3.1	9

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73	Sol-gel preparation of non-hygroscopic siliceous thin films enriched with alkaline-earth ions. <i>Journal of Non-Crystalline Solids</i> , 2003, 324, 73-78.	1.5	8
74	Surface study of water influence on chemical corrosion of Roman glass. <i>Surface Engineering</i> , 2005, 21, 393-396.	1.1	8
75	In situ window cleaning by laser blowoff through optical fiber. <i>Review of Scientific Instruments</i> , 2008, 79, 10F338.	0.6	8
76	Analysis of the interaction between plasmas and the graphite first wall in RFX-mod. <i>Journal of Nuclear Materials</i> , 2011, 415, S274-S277.	1.3	8
77	Introduction of Metal Oxides into Mg ₂ Si Thermoelectric Materials by Spark Plasma Sintering. <i>Journal of Electronic Materials</i> , 2013, 42, 2062-2066.	1.0	8
78	Structural, compositional and functional properties of Sb-doped Mg ₂ Si synthesized in Al ₂ O ₃ -crucibles. <i>RSC Advances</i> , 2016, 6, 81037-81045.	1.7	8
79	NIR transmittance tuneability under a magnetic field of colloidal suspensions of goethite ($\hat{\pm}$ -FeOOH) nanorods. <i>RSC Advances</i> , 2017, 7, 12429-12436.	1.7	8
80	Optical characterisation of oxidised carbon nanohorn nanofluids for direct solar energy absorption applications. <i>Solar Energy</i> , 2019, 191, 323-331.	2.9	8
81	Secondary ion mass spectrometric investigation on ruthenium oxide systems: a comparison between poly- and nanocrystalline deposits. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1179-1183.	0.7	7
82	Nanoporous gold Application to extraordinary optical transmission of light. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 012601.	0.6	7
83	Optical Limiting of Carbon Nanohorn-Based Aqueous Nanofluids: A Systematic Study. <i>Nanomaterials</i> , 2020, 10, 2160.	1.9	7
84	Implementing sustainability in laboratory activities: A case study on aluminum titanium nitride based thin film magnetron sputtering deposition onto commercial laminated steel. <i>Journal of Cleaner Production</i> , 2021, 285, 124869.	4.6	7
85	Evaluation of the scavenging effect by low temperature laboratory plasmas driven with radiofrequency. <i>Plasma Physics and Controlled Fusion</i> , 2010, 52, 075014.	0.9	6
86	A Comparative Study of Cathodic Electrodeposited Nickel Hydroxide Films Electrocatalysts. <i>Electrocatalysis</i> , 2013, 4, 329-337.	1.5	6
87	Development and Thermophysical Profile of Cetyl Alcohol-in-Water Nanoemulsions for Thermal Management. <i>Fluids</i> , 2022, 7, 11.	0.8	6
88	Sol-gel synthesis of Zn-thiourea-SiO ₂ thin films from (EtO) ₃ Si(CH ₂) ₃ NHC(S)NHPH as molecular precursor. <i>Solid State Sciences</i> , 2004, 6, 1287-1294.	1.5	5
89	Key Issues in Processing Metal-Supported Proton Conducting Anodes for SOFCs Applications. <i>ECS Transactions</i> , 2011, 35, 1761-1769.	0.3	5
90	Dielectric breakdown study of a nanofluid based on goethite nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 2206-2211.	1.8	5

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91	Effects of Carbon Nanohorn Based Nanofluids Pool Boiling on Optical Properties and Wettability of Different Metal Surfaces. Heat Transfer Engineering, 2020, , 1-14.	1.2	5
92	Optical Properties of Mixed Nanofluids Containing Carbon Nanohorns and Silver Nanoparticles for Solar Energy Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 3568-73.	0.9	5
93	An investigation of cobalt oxide based nanocrystalline thin films by secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2001, 15, 1621-1624.	0.7	4
94	Secondary ion mass spectrometry and X-ray photoelectron spectroscopy investigation on chemical vapor deposited CeO ₂ ?ZrO ₂ ?TiO ₂ thin films. Rapid Communications in Mass Spectrometry, 2003, 17, 996-1001.	0.7	4
95	Optical characterisation of Carbon-Nanohorn based nanofluids for solar energy and life science applications. , 2011, , .		4
96	Synthesis and characterization of Bi-doped Mg ₂ Si thermoelectric materials. , 2012, , .		4
97	SIMS analysis of the interaction between plasmas and the graphite first wall in RFX-Mod. Surface and Interface Analysis, 2013, 45, 423-426.	0.8	4
98	Easy preparation method of stable copper-based nanoparticle suspensions in lubricant engine oil. Lubrication Science, 2020, 32, 205-217.	0.9	4
99	Nanofluids as Direct Solar Energy Absorbers. Journal of Nanofluids, 2019, 8, 17-29.	1.4	4
100	Characterization of Dispersion-Hardened Electrodeposited Gold Composites. Part 1: SIMS and SEM Study of Powder Inclusions. Chemistry of Materials, 2000, 12, 2964-2970.	3.2	3
101	Impurities removal by laser blow-off from in-vacuum optical surfaces on RFX-mod experiment. Review of Scientific Instruments, 2010, 81, 123509.	0.6	3
102	Magnetic-field tunability of optical properties in colloidal suspensions of goethite (α -FeOOH) nanorods. Optical Materials, 2019, 96, 109303.	1.7	3
103	SIMS Characterization of La _{0.7} Sr _{0.3} MnO ₃ Films for Solid Oxide Fuel Cell Applications. Annali Di Chimica, 2005, 95, 395-403.	0.6	2
104	Vacuum Thermal Treatments for Surface Engineering of Selective Laser Melted Ti6Al4V Alloy. Journal of Materials Engineering and Performance, 2021, 30, 6874-6880.	1.2	2
105	Secondary ion mass spectrometric investigation of Au-based composites. Rapid Communications in Mass Spectrometry, 2001, 15, 2014-2019.	0.7	1
106	BaCe _{1-x} Y _{2x} Zr _x Y _{3-2x} O _{3-d} Proton Conductors: The Role of the Synthetic Route on their Properties. ECS Transactions, 2008, 11, 89-96.	0.3	1
107	RF-Sputtering Deposition of Gadolinia Doped Ceria Films for IT-SOFCs Applications. ECS Transactions, 2008, 11, 113-119.	0.3	1
108	Engineered/tailored nanoporous gold structures for infrared plasmonics. Proceedings of SPIE, 2015, , .	0.8	1

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109	Nanostructured multilayered thin film barriers for Mg ₂ Si thermoelectric materials. , 2012, , .		0