

Monica Fabrizio

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110
papers

2,362
citations

24
h-index

45
g-index

118
ext. papers

2,584
ext. citations

4.1
avg, IF

4.42
L-index

#	Paper	IF	Citations
110	Composition and Microstructure of Cobalt Oxide Thin Films Obtained from a Novel Cobalt(II) Precursor by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2001 , 13, 588-593	9.6	490
109	Viscosity of water based SWCNH and TiO ₂ nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2012 , 36, 65-71	3	142
108	Determination of the electronic structure of thiophene oligomers and extrapolation to polythiophene. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 5761-5766		107
107	High conductivity and chemical stability of BaCe _{1-x} Zr _x Y _{0.3} O _{3-δ} proton conductors prepared by a sol-gel method. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5120		102
106	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. <i>Energy and Environmental Science</i> , 2015 , 8, 3675-3686 ³⁵⁻⁴	35.4	76
105	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. <i>International Journal of Refrigeration</i> , 2010 , 33, 1180-1186	3.8	63
104	Synthesis and Characterization of Al-Doped Mg ₂ Si Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2013 , 42, 1956-1959	1.9	59
103	Effect of nanostructure on the thermal conductivity of La-doped SrTiO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 307-316	6	58
102	Role of synthetic route on the transport properties of BaCe _{1-x} Y _x O ₃ proton conductor. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 477-485	5.7	56
101	Synthesis and characterization of Bi-doped Mg ₂ Si thermoelectric materials. <i>Journal of Solid State Chemistry</i> , 2012 , 193, 142-146	3.3	52
100	The Synthesis and Effect of Copper Nanoparticles on the Tribological Properties of Lubricant Oils. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 751-759	2.6	40
99	Tribological Properties of Engine Oil with Carbon Nano-horns as Nano-additives. <i>Tribology Letters</i> , 2014 , 55, 45-53	2.8	39
98	Barium Non-Stoichiometry Role on the Properties of Ba _{1+x} Ce _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} Proton Conductors for IT-SOFCs. <i>Fuel Cells</i> , 2008 , 8, 360-368	2.9	39
97	Improved tribological and thermal properties of lubricants by graphene based nano-additives. <i>RSC Advances</i> , 2016 , 6, 59477-59486	3.7	37
96	Single-Source Chemical Vapor Deposition of Zinc Sulfide-Based Thin Films from Zinc bis(O-ethylxanthate). <i>Chemical Vapor Deposition</i> , 2003 , 9, 93-98		37
95	A SIMS and XPS study about ions influence on electrodeposited PbO ₂ films. <i>Applied Surface Science</i> , 1999 , 142, 200-203	6.7	32
94	Electrochemical characterization of PANI-Nafion membranes and their electrocatalytic activity. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 300, 23-34		30

93	Influence of Cu, TiO ₂ Nanoparticles and Carbon Nano-Horns on Tribological Properties of Engine Oil. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3590-8	1.3	29
92	3-methylthiophene self-assembled monolayers on planar and nanoparticle Au surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19397-402	3.4	29
91	Sol-gel synthesis and characterization of Ag ₂ S nanocrystallites in silica thin film glasses. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2893-2898		29
90	Electrocatalytic oxidation of hydrazine in acid media on polyaniline-filmed vitreous carbon. <i>Electrochimica Acta</i> , 1990 , 35, 1425-1431	6.7	29
89	Effect of precursors on Alumina electrolyte preparation. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2099-2107	6	25
88	Hydrogen separation by thin vanadium-based multi-layered membranes. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3235-3243	6.7	25
87	Crystals and nanocrystals in rapidly solidified Al-Sm alloys. <i>Scripta Materialia</i> , 1998 , 10, 767-776		25
86	Molecularly interconnected SiO ₂ -CeO ₂ thin films: sol-gel synthesis and characterization. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1147-1150		24
85	A Ru(II) π -Allylic Complex as a Novel Precursor for the CVD of Ru- and RuO ₂ -Nanostructured Thin Films. <i>Langmuir</i> , 1999 , 15, 4537-4543	4	22
84	Novel Ru/La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ - γ catalysts for propane reforming in IT-SOFCs. <i>Solid State Ionics</i> , 2010 , 181, 285-291	3.3	21
83	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. <i>Solid State Ionics</i> , 2007 , 177, 3473-3484	3.3	21
82	Effect of external magnetic field on tribological properties of goethite (α -FeOOH) based nanofluids. <i>Tribology International</i> , 2018 , 127, 341-350	4.9	20
81	Polyaniline-based membranes for gas electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 323, 197-212	4.12	20
80	Electro-carboxylation of 2-bromoisobutyramides. a useful synthetic way to ester-amides of 2,2-dimethylmalonic acid. <i>Tetrahedron</i> , 1988 , 44, 2351-2358	2.4	20
79	Surface chemistry study of RuO ₂ /IrO ₂ /TiO ₂ mixed-oxide electrodes. <i>Rapid Communications in Mass Spectrometry</i> , 2004 , 18, 278-84	2.2	19
78	Surface oxidation of single wall carbon nanohorns for the production of surfactant free water-based colloids. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 528-533	9.3	18
77	Enhanced sulfur tolerance of BaCe _{0.65} Zr _{0.20} Y _{0.15} O ₃ -Ce _{0.85} Gd _{0.15} O ₂ - γ composite for hydrogen separation membranes. <i>Journal of Membrane Science</i> , 2018 , 564, 123-132	9.6	18
76	Nanocrystalline Pt thin films obtained via metal organic chemical vapor deposition on quartz and CaF ₂ substrates: an investigation of their chemico-physical properties. <i>Thin Solid Films</i> , 2002 , 405, 81-86	2.2	17

75	Phase Content Influence on Thermoelectric Properties of Manganese Silicide-Based Materials for Middle-High Temperatures. <i>Journal of Electronic Materials</i> , 2013 , 42, 2020-2024	1.9	15
74	Au/Pt nanoparticle systems in methanol and carbon monoxide electrooxidation. <i>Electrochimica Acta</i> , 2011 , 56, 3673-3678	6.7	15
73	A microwave-assisted sol-gel Pechini method for the synthesis of BaCe _{0.65} Zr _{0.20} Y _{0.15} O ₃ powders. <i>Materials Research Bulletin</i> , 2010 , 45, 1171-1176	5.1	15
72	Mechanical properties and tribological behaviour of Mo-N coatings deposited via high power impulse magnetron sputtering on temperature sensitive substrates. <i>Tribology International</i> , 2018 , 119, 372-380	4.9	15
71	One step synthesis and sintering of Ni and Zn substituted tetrahedrite as thermoelectric material. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 75-83	5.7	14
70	Polyaniline /carbon nanohorn composites as thermoelectric materials. <i>Polymer International</i> , 2017 , 66, 1725-1730	3.3	14
69	Temperature controlled photoacoustic device for thermal diffusivity measurements of liquids and nanofluids. <i>Thermochimica Acta</i> , 2015 , 619, 48-52	2.9	14
68	Surface chemistry of RuO(2)/IrO(2)/TiO(2) mixed-oxide electrodes: secondary ion mass spectrometric study of the changes induced by electrochemical treatment. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 2165-9	2.2	14
67	Test Rig for High-Temperature Thermopower and Electrical Conductivity Measurements. <i>Journal of Electronic Materials</i> , 2013 , 42, 1319-1323	1.9	13
66	Growth of titanium dioxide nanopetals induced by single wall carbon nanohorns. <i>Carbon</i> , 2010 , 48, 2470-2477	2.4	13
65	Secondary ion mass spectrometry in the characterisation of boron-based ceramics. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1-7	2.2	13
64	Surface and bulk effects in the extraction of hydrogen from highly loaded Pd sheet electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 350, 57-72	4.1	13
63	Ti _{1-x} Al _x N coatings by Reactive High Power Impulse Magnetron Sputtering: film/substrate interface effect on residual stress and high temperature oxidation. <i>Surface and Coatings Technology</i> , 2018 , 354, 56-65	4.4	12
62	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	2.9	11
61	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	2.2	11
60	Mechanical and Electrical Characterization of Low-resistivity Contact Materials for Mg ₂ Si. <i>Materials Today: Proceedings</i> , 2015 , 2, 573-582	1.4	10
59	Tuning the thermal diffusivity of silver based nanofluids by controlling nanoparticle aggregation. <i>Nanotechnology</i> , 2013 , 24, 365601	3.4	10
58	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		10

57	Effect of Synthesis and Sintering Conditions on the Thermoelectric Properties of n-Doped Mg ₂ Si. <i>Journal of Electronic Materials</i> , 2014 , 43, 2301-2306	1.9	9
56	Absorption-desorption of deuterium at Pd ₉₅ Rh ₅ alloy I: environment and temperature effects. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 390, 135-142	4.1	9
55	The insertion/extraction of deuterium (hydrogen) at Pd sheet electrodes in D ₂ O(H ₂ O) + LiOD(LiOH) electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 403, 143-151	4.1	9
54	Electrochemical properties of poly(2-chloroaniline). <i>Synthetic Metals</i> , 1991 , 44, 271-280	3.6	9
53	Thermal Shock and Oxidation Behavior of HiPIMS TiAlN Coatings Grown on Ti-48Al-2Cr-2Nb Intermetallic Alloy. <i>Materials</i> , 2016 , 9,	3.5	9
52	AlTiN based thin films for degradation protection of tetrahedrite thermoelectric material. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 953-959	5.7	8
51	Cathodoluminescence evaluation of oxygen vacancy population in nanostructured titania thin films for photocatalytic applications. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 5295-8	2.8	8
50	Conductivity studies of sol-gel prepared BaCe _{0.85} Zr _x Y _{0.15} O ₃ solid electrolytes using impedance spectroscopy. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 2129-2141	2.6	8
49	Secondary ion mass spectrometry characterization of IrO ₂ /Ta ₂ O ₅ thin films: effect of relative composition on electrode properties 1998 , 12, 1574-1579		8
48	The observation of tritium in the electrolysis of D ₂ O at palladium sheet cathodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 304, 279-287		8
47	Single-step process to produce alumina supported hydroxy-sodalite zeolite membranes. <i>Journal of Materials Science</i> , 2019 , 54, 2049-2058	4.3	8
46	NIR transmittance tuneability under a magnetic field of colloidal suspensions of goethite (FeOOH) nanorods. <i>RSC Advances</i> , 2017 , 7, 12429-12436	3.7	7
45	Structural, morphological and mechanical characterization of Mo sputtered coatings. <i>Surface and Coatings Technology</i> , 2015 , 266, 14-21	4.4	7
44	TiO ₂ -HA bi-layer coatings for improving the bioactivity and service-life of Ti dental implants. <i>Surface and Coatings Technology</i> , 2019 , 378, 125049	4.4	7
43	Introduction of Metal Oxides into Mg ₂ Si Thermoelectric Materials by Spark Plasma Sintering. <i>Journal of Electronic Materials</i> , 2013 , 42, 2062-2066	1.9	7
42	Effect of temperature on electrolytic loading of hydrogen into palladium. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 453, 221-230	4.1	7
41	PdAg/alumina membranes prepared by high power impulse magnetron sputtering for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7982-7989	6.7	6
40	Nanostructured Tetrahedrite Synthesis for Thermoelectric Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1645-649	1.3	6

39	Evaluation of the scavenging effect by low temperature laboratory plasmas driven with radiofrequency. <i>Plasma Physics and Controlled Fusion</i> , 2010 , 52, 075014	2	6
38	Ion bombardment of PbO ₂ films: water influence of cluster production. <i>International Journal of Mass Spectrometry</i> , 1998 , 179-180, 309-317	1.9	6
37	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, 1179-83	2.3	6
36	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	3.7	6
35	Assessment of synergistic effects of LP-MOCVD TiO ₂ and Ti surface finish for dental implant purposes. <i>Applied Surface Science</i> , 2019 , 490, 568-579	6.7	5
34	Structural evolution of BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} /Ce _{0.85} Gd _{0.15} O _{2-δ} composite MPEC membrane by in-situ synchrotron XRD analyses. <i>Materials Today Energy</i> , 2019 , 13, 331-341	7	5
33	Electron transfer across the interface gold/self-assembled organic monolayer. Comparison of single- and two-component systems. <i>Russian Journal of Electrochemistry</i> , 2012 , 48, 351-363	1.2	5
32	Structural Texture Induced in SnSe Thermoelectric Compound via Open Die Pressing. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1571-578	1.3	5
31	Key Issues in Processing Metal-Supported Proton Conducting Anodes for SOFCs Applications. <i>ECS Transactions</i> , 2011 , 35, 1761-1769	1	5
30	Temperature dependent iterative model of thermoelectric generator including thermal losses in passive elements. <i>Applied Thermal Engineering</i> , 2019 , 150, 620-627	5.8	5
29	SIMS analysis of the interaction between plasmas and the graphite first wall in RFX-mod. <i>Surface and Interface Analysis</i> , 2013 , 45, 423-426	1.5	4
28	Synthesis and characterization of Bi-doped Mg ₂ Si thermoelectric materials 2012 ,		4
27	Influence of support material on formation of electrocatalytic thin films – secondary ion mass spectrometry study. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 161, 141-149		4
26	Ni-Zr alloys: relationship between surface characteristics and electrocatalytic behavior. <i>Rapid Communications in Mass Spectrometry</i> , 2000 , 14, 800-7	2.2	4
25	Absorption-desorption of deuterium at Pd _{95%} Rh _{5%} alloy. II: Neutron emission. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 395, 249-260	4.1	4
24	Absorption/desorption of deuterium at Pd 95%Rh 5% alloy: peculiarities of electrochemical desorption process. <i>Electrochimica Acta</i> , 1994 , 39, 1795-1801	6.7	4
23	Tritium and neutron emission in D ₂ O electrolysis at Pd and Ti cathodes. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 322, 107-117	4.1	4
22	Microturbine and Thermoelectric Generator Combined System: A Case Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1601-607	1.3	3

21	Influence of Al and Mg Addition on Thermoelectric Properties of Higher Manganese Silicides Obtained by Reactive Sintering. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1668-1673	1.3	3
20	An investigation of cobalt oxide based nanocrystalline thin films by secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1621-1624	2.2	3
19	The incorporation of a corrosion inhibitor (2-benzothiazolylthiosuccinic acid) in polyoxyphenylene coatings prepared by in situ electropolymerization. <i>Corrosion Science</i> , 1993 , 35, 1527-1533	6.8	3
18	Insights on the Interfacial Processes Involved in the Mechanical and Redox Stability of the BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} /Ce _{0.85} Gd _{0.15} O _{2-δ} Composite. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9877-9888	6.1	3
17	Fast Sintering of Thermoelectric Silicide Powders Using Open Die Pressing Technique. <i>Materials Today: Proceedings</i> , 2015 , 2, 566-572	1.4	2
16	Electroformed objects for jewelry: secondary ion mass spectrometry characterization of Au films from CN-free electrolytes 1998 , 12, 857-863		2
15	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	3.4	2
14	Secondary ion mass spectrometry and X-ray photoelectron spectroscopy investigation on chemical vapor deposited CeO ₂ -ZrO ₂ -TiO ₂ thin films. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 996-1001	2.2	2
13	Characterization of Dispersion-Hardened Electrodeposited Gold Composites. Part 1: SIMS and SEM Study of Powder Inclusions. <i>Chemistry of Materials</i> , 2000 , 12, 2964-2970	9.6	2
12	Anomalous effects during the interaction of subatmospheric D ₂ (H ₂) with Pd from 900 K to room temperature 1994 , 107, 171-183		2
11	Electrolytic insertion/extraction of hydrogen (Deuterium) at AuPd surface. <i>Electrochimica Acta</i> , 1995 , 40, 1899-1906	6.7	2
10	Microwave assisted sintering of Na-Al ₂ O ₃ in single mode cavities: Insights in the use of 2450 MHz frequency and preliminary experiments at 5800 MHz. <i>Ceramics International</i> , 2020 , 46, 28767-28777 ^{5.1}		2
9	ZnO:Al thin films deposited by RF-magnetron sputtering with tunable and uniform properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2191-5	1.3	1
8	Secondary ion mass spectrometry characterization of NdBa ₂ Cu ₃ O _{7-δ} and EuBa ₂ Cu ₃ O _{7-δ} single crystals. <i>Rapid Communications in Mass Spectrometry</i> , 1998 , 12, 675-682	2.2	1
7	Sims characterization of La _{0.7} Sr _{0.3} MnO ₃ films for solid oxide fuel cell applications. <i>Annali Di Chimica</i> , 2005 , 95, 395-403		1
6	Production Strategies of TiN Coatings via Reactive High Power Impulse Magnetron Sputtering for Selective H Separation. <i>Membranes</i> , 2021 , 11,	3.8	1
5	Effect of temperature and deposition technology on the microstructure, chemistry and tribo-mechanical characteristics of Ti-B based thin films by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2021 , 405, 126556	4.4	1
4	Secondary ion mass spectrometric investigation of Au-based composites. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 2014-9	2.2	0

- 3 A Special Section on Thermoelectrics. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 1543-1546 1.3
- 2 Electric-field effects on the neutron emission from Pd deuteride samples **1995**, 108, 1187-1205
- 1 Surface Optimization of Commercial Porous Ti Substrates by EPD of Titanium Nitride. *Membranes*, **2022**, 12, 531 3.8