Monica Fabrizio

List of Publications by Year
in descending order

114	2,876	218381	189595
papers	citations	26 h-index	50 g-index

118	118	118	3766
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Composition and Microstructure of Cobalt Oxide Thin Films Obtained from a Novel Cobalt(II) Precursor by Chemical Vapor Deposition. Chemistry of Materials, 2001, 13, 588-593.	3.2	570
2	Viscosity of water based SWCNH and TiO2 nanofluids. Experimental Thermal and Fluid Science, 2012, 36, 65-71.	1.5	164
3	High conductivity and chemical stability of BaCe1â^'xâ^'yZrxYyO3â^'Î´ proton conductors prepared by a solâ€“gel method. Journal of Materials Chemistry, 2008, 18, 5120.	6.7	116
4	Determination of the electronic structure of thiophene oligomers and extrapolation to polythiophene. The Journal of Physical Chemistry, 1990, 94, 5761-5766.	2.9	115
5	Exceptional hydrogen permeation of all-ceramic composite robust membranes based on BaCe_{0.65}Zr_{0.20}Y_{0.15}O_{3â^'Î´} and Y- or Gd-doped ceria. Energy and Environmental Science, 2015, 8, 3675-3686.	15.6	98
6	Influence of nanoparticles dispersion in POE oils on lubricity and R134a solubility. International Journal of Refrigeration, 2010, 33, 1180-1186.	1.8	82
7	Effect of nanostructure on the thermal conductivity of La-doped SrTiO3 ceramics. Journal of the European Ceramic Society, 2014, 34, 307-316.	2.8	78
8	Synthesis and Characterization of Al-Doped Mg2Si Thermoelectric Materials. Journal of Electronic Materials, 2013, 42, 1956-1959.	1.0	69
9	Role of synthetic route on the transport properties of BaCe1â^'xYxO3 proton conductor. Journal of Alloys and Compounds, 2009, 470, 477-485.	2.8	66
10	Synthesis and characterization of Bi-doped Mg2Si thermoelectric materials. Journal of Solid State Chemistry, 2012, 193, 142-146.	1.4	65
11	Tribological Properties of Engine Oil with Carbon Nano-horns as Nano-additives. Tribology Letters, 2014, 55, 45-53.	1.2	55
12	Improved tribological and thermal properties of lubricants by graphene based nano-additives. RSC Advances, 2016, 6, 59477-59486.	1.7	50
13	The Synthesis and Effect of Copper Nanoparticles on the Tribological Properties of Lubricant Oils. IEEE Nanotechnology Magazine, 2013, 12, 751-759.	1.1	48
14	Barium Nonâ€Stoichiometry Role on the Properties of Ba₁₊_xCe_{0.65}Zr_{0.20}Y_{0.15}O_{3â€“Î´} Proton Conductors for ITâ€SOFCs. Fuel Cells, 2008, 8, 360-368.	1.4	44
15	Single-Source Chemical Vapor Deposition of Zinc Sulfide-Based Thin Films from Zinc bis(O-ethylxanthate). Chemical Vapor Deposition, 2003, 9, 93-98.	1.4	42
16	Influence of Cu, TiO₂ Nanoparticles and Carbon Nano-Horns on Tribological Properties of Engine Oil. Journal of Nanoscience and Nanotechnology, 2015, 15, 3590-3598.	0.9	38
17	Electrochemical characterization of PANI-Nafion membranes and their electrocatalytic activity. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 300, 23-34.	0.3	37
18	A SIMS and XPS study about ions influence on electrodeposited PbO2 films. Applied Surface Science, 1999, 142, 200-203.	3.1	35

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19	Solâ€“gel synthesis and characterization of Ag2S nanocrystallites in silica thin film glasses. Journal of Materials Chemistry, 1999, 9, 2893-2898.	6.7	34
20	Effect of precursors on Î²-alumina electrolyte preparation. Journal of the European Ceramic Society, 2015, 35, 2099-2107.	2.8	34
21	Electrocatalytic oxidation of hydrazine in acid media on polyaniline-filmed vitreous carbon. Electrochimica Acta, 1990, 35, 1425-1431.	2.6	32
22	Hydrogen separation by thin vanadium-based multi-layered membranes. International Journal of Hydrogen Energy, 2018, 43, 3235-3243.	3.8	32
23	3-Methylthiophene Self-Assembled Monolayers on Planar and Nanoparticle Au Surfaces. Journal of Physical Chemistry B, 2005, 109, 19397-19402.	1.2	31
24	Effect of external magnetic field on tribological properties of goethite (a-FeOOH) based nanofluids. Tribology International, 2018, 127, 341-350.	3.0	30
25	Crystals and nanocrystals in rapidly solidified Alî—¸Sm alloys. Scripta Materialia, 1998, 10, 767-776.	0.5	28
26	A Ru(II) Î·3-Allylic Complex as a Novel Precursor for the CVD of Ru- and RuO2-Nanostructured Thin Films. Langmuir, 1999, 15, 4537-4543.	1.6	28
27	Enhanced sulfur tolerance of BaCe0.65Zr0.20Y0.15O3-Î´-Ce0.85Gd0.15O2-Î´ composite for hydrogen separation membranes. Journal of Membrane Science, 2018, 564, 123-132.	4.1	27
28	Molecularly interconnected SiO2â€“GeO2 thin films: solâ€“gel synthesis and characterization. Journal of Materials Chemistry, 2000, 10, 1147-1150.	6.7	26
29	Electro-carboxylation of 2-bromoisobutyramides. a useful synthetic way to ester-amides of 2,2-dimethylmalonic acid. Tetrahedron, 1988, 44, 2351-2358.	1.0	23
30	Polyaniline-based membranes for gas electrodes. Journal of Electroanalytical Chemistry, 1992, 323, 197-212.	1.9	23
31	Surface chemistry study of RuO2/IrO2/TiO2 mixed-oxide electrodes. Rapid Communications in Mass Spectrometry, 2004, 18, 278-284.	0.7	23
32	Novel Au/La1â^'xSrxMnO3 and Au/La1â^'xSrxCrO3 composites: Catalytic activity for propane partial oxidation and reforming. Solid State Ionics, 2007, 177, 3473-3484.	1.3	23
33	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
34	Nanocrystalline Pt thin films obtained via metal organic chemical vapor deposition on quartz and CaF2 substrates: an investigation of their chemico-physical properties. Thin Solid Films, 2002, 405, 81-86.	0.8	22
35	Novel Ru/La0.75Sr0.25Cr0.5Mn0.5O3-Î´ catalysts for propane reforming in IT-SOFCs. Solid State Ionics, 2010, 181, 285-291.	1.3	22
36	Temperature controlled photoacoustic device for thermal diffusivity measurements of liquids and nanofluids. Thermochimica Acta, 2015, 619, 48-52.	1.2	22

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37	Surface chemistry of RuO2/IrO2/TiO2 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
38	Mechanical properties and tribological behaviour of Mo-N coatings deposited via high power impulse magnetron sputtering on temperature sensitive substrates. Tribology International, 2018, 119, 372-380.	3.0	19
39	A microwave-assisted solâ€“gel Pechini method for the synthesis of BaCe0.65Zr0.20Y0.15O3â^Î´ powders. Materials Research Bulletin, 2010, 45, 1171-1176.	2.7	18
40	Au/Pt nanoparticle systems in methanol and carbon monoxide electroxidation. Electrochimica Acta, 2011, 56, 3673-3678.	2.6	18
41	Secondary ion mass spectrometry in the characterisation of boron-based ceramics. Rapid Communications in Mass Spectrometry, 2001, 15, 1-7.	0.7	17
42	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
43	Test Rig for High-Temperature Thermopower and Electrical Conductivity Measurements. Journal of Electronic Materials, 2013, 42, 1319-1323.	1.0	17
44	Polyanilineâ€‰â^'â€‰carbon nanohorn composites as thermoelectric materials. Polymer International, 2017, 66, 1725-1730.	1.6	17
45	Growth of titanium dioxide nanopetals induced by single wall carbon nanohorns. Carbon, 2010, 48, 2470-2477.	5.4	16
46	Multilayered thin films for oxidation protection of Mg2Si thermoelectric material at middleâ€“high temperatures. Thin Solid Films, 2012, 526, 150-154.	0.8	16
47	Mechanical and Electrical Characterization of Low-resistivity Contact Materials for Mg2Si. Materials Today: Proceedings, 2015, 2, 573-582.	0.9	16
48	One step synthesis and sintering of Ni and Zn substituted tetrahedrite as thermoelectric material. Journal of Alloys and Compounds, 2017, 702, 75-83.	2.8	16
49	Ti1â^'xAlxN coatings by Reactive High Power Impulse Magnetron Sputtering: film/substrate interface effect on residual stress and high temperature oxidation. Surface and Coatings Technology, 2018, 354, 56-65.	2.2	16
50	TiO2-HA bi-layer coatings for improving the bioactivity and service-life of Ti dental implants. Surface and Coatings Technology, 2019, 378, 125049.	2.2	16
51	Structural, morphological and mechanical characterization of Mo sputtered coatings. Surface and Coatings Technology, 2015, 266, 14-21.	2.2	15
52	Surface and bulk effects in the extraction of hydrogen from highly loaded Pd sheet electrodes. Journal of Electroanalytical Chemistry, 1993, 350, 57-72.	1.9	14
53	Influence of electrochemical processing on the composition and microstructure of chemical-vapor deposited Ru and RuO2 nanocrystalline films. Journal of Materials Chemistry, 2002, 12, 1511-1518.	6.7	13
54	Tuning the thermal diffusivity of silver based nanofluids by controlling nanoparticle aggregation. Nanotechnology, 2013, 24, 365601.	1.3	13

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55	Influence of Microwaveâ€Assisted Pechini Method on La_{0.80}Sr_{0.20}Ga_{0.83}Mg_{0.17}O_{3â€“Î´} Ionic Conductivity. Fuel Cells, 2012, 12, 54-60.	1.5	12
56	Electrochemical properties of poly(2-chloroaniline). Synthetic Metals, 1991, 44, 271-280.	2.1	11
57	The insertion/extraction of deuterium (hydrogen) at Pd sheet electrodes in D2O(H2O) + LiOD(LiOH) electrolyte. Journal of Electroanalytical Chemistry, 1996, 403, 143-151.	1.9	11
58	Effect of Synthesis and Sintering Conditions on the Thermoelectric Properties of n-Doped Mg2Si. Journal of Electronic Materials, 2014, 43, 2301-2306.	1.0	11
59	Thermal Shock and Oxidation Behavior of HiPIMS TiAlN Coatings Grown on Ti-48Al-2Cr-2Nb Intermetallic Alloy. Materials, 2016, 9, 961.	1.3	11
60	PdAg/alumina membranes prepared by high power impulse magnetron sputtering for hydrogen separation. International Journal of Hydrogen Energy, 2018, 43, 7982-7989.	3.8	11
61	Single-step process to produce alumina supported hydroxy-sodalite zeolite membranes. Journal of Materials Science, 2019, 54, 2049-2058.	1.7	11
62	The observation of tritium in the electrolysis of D2O at palladium sheet cathodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 304, 279-287.	0.3	10
63	Secondary ion mass spectrometry characterization of IrO2-Ta2O5 thin films: effect of relative composition on electrode properties. , 1998, 12, 1574-1579.		10
64	Cathodoluminescence Evaluation of Oxygen Vacancy Population in Nanostructured Titania Thin Films for Photocatalytic Applications. Journal of Physical Chemistry A, 2010, 114, 5295-5298.	1.1	10
65	Assessment of synergistic effects of LP-MOCVD TiO2 and Ti surface finish for dental implant purposes. Applied Surface Science, 2019, 490, 568-579.	3.1	10
66	Insights on the Interfacial Processes Involved in the Mechanical and Redox Stability of the BaCe_{0.65}Zr_{0.2}0Y_{0.15}O_{3â^'Î´}â€“Ce_{0.85}Gd_{0.15}O<sub>2â Composite. ACS Applied Energy Materials, 2020, 3, 9877-9888.	2.5	10
67	Absorption-desorption of deuterium at Pd95%î—¸RH5% alloy I: environment and temperature effects. Journal of Electroanalytical Chemistry, 1995, 390, 135-142.	1.9	9
68	Conductivity studies of sol-gel prepared BaCe0.85â^'xZrxY0.15O3â^'Î´ solid electrolytes using impedance spectroscopy. Journal of Applied Electrochemistry, 2009, 39, 2129-2141.	1.5	9
69	Temperature dependent iterative model of thermoelectric generator including thermal losses in passive elements. Applied Thermal Engineering, 2019, 150, 620-627.	3.0	9
70	Introduction of Metal Oxides into Mg2Si Thermoelectric Materials by Spark Plasma Sintering. Journal of Electronic Materials, 2013, 42, 2062-2066.	1.0	8
71	Structural, compositional and functional properties of Sb-doped Mg₂Si synthesized in Al₂O₃-crucibles. RSC Advances, 2016, 6, 81037-81045.	1.7	8
72	NIR transmittance tuneability under a magnetic field of colloidal suspensions of goethite (Î±-FeOOH) nanorods. RSC Advances, 2017, 7, 12429-12436.	1.7	8

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73	Structural evolution of BaCe0.65Zr0.20Y0.15O3-Î´-Ce0.85Gd0.15O2-Î´ composite MPEC membrane by in-situ synchrotron XRD analyses. Materials Today Energy, 2019, 13, 331-341.	2.5	8
74	AlTiN based thin films for degradation protection of tetrahedrite thermoelectric material. Journal of Alloys and Compounds, 2019, 792, 953-959.	2.8	8
75	Effect of temperature on electrolytic loading of hydrogen into palladium. Journal of Electroanalytical Chemistry, 1998, 453, 221-230.	1.9	7
76	Secondary ion mass spectrometric investigation on ruthenium oxide systems: a comparison between poly- and nanocrystalline deposits. Rapid Communications in Mass Spectrometry, 2000, 14, 1179-1183.	0.7	7
77	Effect of temperature and deposition technology on the microstructure, chemistry and tribo-mechanical characteristics of Ti-B based thin films by magnetron sputtering. Surface and Coatings Technology, 2021, 405, 126556.	2.2	7
78	Ion bombardment of PbO2 films: water influence of cluster production. International Journal of Mass Spectrometry, 1998, 179-180, 309-317.	0.7	6
79	Evaluation of the scavenging effect by low temperature laboratory plasmas driven with radiofrequency. Plasma Physics and Controlled Fusion, 2010, 52, 075014.	0.9	6
80	Structural Texture Induced in SnSe Thermoelectric Compound via Open Die Pressing. Journal of Nanoscience and Nanotechnology, 2017, 17, 1571-1578.	0.9	6
81	Nanostructured Tetrahedrite Synthesis for Thermoelectric Applications. Journal of Nanoscience and Nanotechnology, 2017, 17, 1645-1649.	0.9	6
82	Solâ€“gel synthesis of Zn-thiourea-SiO2 thin films from (EtO)3Si(CH2)3NHC(S)NHPh as molecular precursor. Solid State Sciences, 2004, 6, 1287-1294.	1.5	5
83	Key Issues in Processing Metal-Supported Proton Conducting Anodes for SOFCs Applications. ECS Transactions, 2011, 35, 1761-1769.	0.3	5
84	Electron transfer across the interface gold/self-assembled organic monolayer. Comparison of single- and two-component systems. Russian Journal of Electrochemistry, 2012, 48, 351-363.	0.3	5
85	Tritium and neutron emission in D2O electrolysis at Pd and Ti cathodes. Journal of Electroanalytical Chemistry, 1992, 322, 107-117.	1.9	4
86	Absorption/desorption of deuterium at Pd 95%î—¸Rh 5% alloy: peculiarities of electrochemical desorption process. Electrochimica Acta, 1994, 39, 1795-1801.	2.6	4
87	Absorption-desorption of deuterium at Pd95%î—¸Rh5% alloy. II: Neutron emission. Journal of Electroanalytical Chemistry, 1995, 395, 249-260.	1.9	4
88	Influence of support material on formation of electrocatalytic thin filmsâ€”a secondary ion mass spectrometry study. International Journal of Mass Spectrometry and Ion Processes, 1997, 161, 141-149.	1.9	4
89	Ni-Zr alloys: relationship between surface characteristics and electrocatalytic behavior. , 2000, 14, 800-807.		4
90	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

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91	Secondary ion mass spectrometry and X-ray photoelectron spectroscopy investigation on chemical vapor deposited CeO2?ZrO2?TiO2 thin films. Rapid Communications in Mass Spectrometry, 2003, 17, 996-1001.	0.7	4
92	Synthesis and characterization of Bi-doped Mg2Si thermoelectric materials. , 2012, , .		4
93	SIMS analysis of the interaction between plasmas and the graphite first wall in RFXâ€mod. Surface and Interface Analysis, 2013, 45, 423-426.	0.8	4
94	Microwave assisted sintering of Na-Î²â€™â€™-Al2O3 in single mode cavities: Insights in the use of 2450ÂMHz frequency and preliminary experiments at 5800ÂMHz. Ceramics International, 2020, 46, 28767-28777.	2.3	4
95	The incorporation of a corrosion inhibitor (2-benzothiazolylthiosuccinic acid) in polyoxyphenylene coatings prepared by in situ electropolymerization. Corrosion Science, 1993, 35, 1527-1533.	3.0	3
96	Characterization of Dispersion-Hardened Electrodeposited Gold Composites. Part 1:Â SIMS and SEM Study of Powder Inclusions. Chemistry of Materials, 2000, 12, 2964-2970.	3.2	3
97	ZnO:Al Thin Films Deposited by RF-Magnetron Sputtering with Tunable and Uniform Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 2191-2195.	0.9	3
98	Fast Sintering of Thermoelectric Silicide Powders Using Open Die Pressing Technique. Materials Today: Proceedings, 2015, 2, 566-572.	0.9	3
99	Microturbine and Thermoelectric Generator Combined System: A Case Study. Journal of Nanoscience and Nanotechnology, 2017, 17, 1601-1607.	0.9	3
100	Influence of Al and Mg Addition on Thermoelectric Properties of Higher Manganese Silicides Obtained by Reactive Sintering. Journal of Nanoscience and Nanotechnology, 2017, 17, 1668-1673.	0.9	3
101	Anomalous effects during the interaction of subatmospheric D2 (H2) with Pd from 900 â€¡C to room temperature. Il Nuovo Cimento A, 1994, 107, 171-183.	0.2	2
102	Electrolytic insertion/extraction of hydrogen (Deuterium) at surface. Electrochimica Acta, 1995, 40, 1899-1906.	2.6	2
103	Electroformed objects for jewelry: secondary ion mass spectrometry characterization of Au films from CN-free electrolytes. , 1998, 12, 857-863.		2
104	SIMS Characterization of La0.7Sr0.3MnO3 Films for Solid Oxide Fuel Cell Applications. Annali Di Chimica, 2005, 95, 395-403.	0.6	2
105	Production Strategies of TiNx Coatings via Reactive High Power Impulse Magnetron Sputtering for Selective H2 Separation. Membranes, 2021, 11, 360.	1.4	2
106	Secondary ion mass spectrometry characterization of NdBa2Cu3O7âˆ’x and EuBa2Cu3O7âˆ’x single crystals. Rapid Communications in Mass Spectrometry, 1998, 12, 675-682.	0.7	1
107	Secondary ion mass spectrometric investigation of Au-based composites. Rapid Communications in Mass Spectrometry, 2001, 15, 2014-2019.	0.7	1
108	RF-Sputtering Deposition of Gadolinia Doped Ceria Films for IT-SOFCs Applications. ECS Transactions, 2008, 11, 113-119.	0.3	1

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109	CHAPTER 9. Mixed Ionicâ€“Electronic Conducting Membranes for Hydrogen Separation. , 0, , 273-302.		1
110	Surface Optimization of Commercial Porous Ti Substrates by EPD of Titanium Nitride. Membranes, 2022, 12, 531.	1.4	1
111	Electric-field effects on the neutron emission from Pd deuteride samples. Il Nuovo Cimento A, 1995, 108, 1187-1205.	0.2	0
112	TiO2 Strelitzia-like Hybrid Nanocomposites Obtained by a Synergic Combination of Vapor Techniques. ECS Transactions, 2009, 25, 821-828.	0.3	0
113	A <I>Special Section on</I> Nanoparticles in Liquid Media for Material Processing, Environment and Industrial Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 3443-3444.	0.9	0
114	A Special Section on Thermoelectrics. Journal of Nanoscience and Nanotechnology, 2017, 17, 1543-1546.	0.9	0