

Peter Hammer

List of Publications by Year in descending order

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129
papers

4,372
citations

81743

39
h-index

128067

60
g-index

130
all docs

130
docs citations

130
times ranked

5079
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic structure of hydrogenated carbon nitride films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 2941-2949.	0.9	162
2	A comparative study of the electrogeneration of hydrogen peroxide using Vulcan and Printex carbon supports. <i>Carbon</i> , 2011, 49, 2842-2851.	5.4	161
3	Characterization of metal-biomass interactions in the lanthanum(III) biosorption on <i>Sargassum</i> sp. using SEM/EDX, FTIR, and XPS: Preliminary studies. <i>Chemical Engineering Journal</i> , 2014, 239, 381-391.	6.6	136
4	Corrosion protection of stainless steel by polysiloxane hybrid coatings prepared using the sol-gel process. <i>Surface and Coatings Technology</i> , 2010, 204, 2689-2701.	2.2	129
5	Transparent and conductive ZnO:Al thin films prepared by sol-gel dip-coating. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1009-1013.	2.8	126
6	Ethanol electro-oxidation in an alkaline medium using Pd/C, Au/C and PdAu/C electrocatalysts prepared by electron beam irradiation. <i>Electrochimica Acta</i> , 2013, 111, 455-465.	2.6	125
7	Evaluation of H ₂ O ₂ electrogeneration and decolorization of Orange II azo dye using tungsten oxide nanoparticle-modified carbon. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 436-445.	10.8	98
8	High-performance activated carbon from polyaniline for capacitive deionization. <i>Carbon</i> , 2017, 123, 318-333.	5.4	97
9	Synthesis of carbon nitride films at low temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 107-112.	0.9	95
10	Incorporation of nitrogen in carbon nanotubes. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 874-879.	1.5	92
11	Photocatalytic degradation of methylene blue by TiO ₂ -Cu thin films: Theoretical and experimental study. <i>Journal of Hazardous Materials</i> , 2010, 184, 273-280.	6.5	92
12	Hydrogen peroxide electrogeneration in gas diffusion electrode nanostructured with Ta ₂ O ₅ . <i>Applied Catalysis A: General</i> , 2016, 517, 161-167.	2.2	90
13	Ion beam deposited carbon nitride films: characterization and identification of chemical sputtering. <i>Thin Solid Films</i> , 1996, 290-291, 107-111.	0.8	89
14	Oxidation of ammonia using PtRh/C electrocatalysts: Fuel cell and electrochemical evaluation. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 136-144.	10.8	85
15	Chemical sputtering of carbon films by low energy N ₂ ⁺ ion bombardment. <i>Diamond and Related Materials</i> , 1996, 5, 1152-1158.	1.8	83
16	Titanium boron nitride coatings of very high hardness. <i>Surface and Coatings Technology</i> , 1994, 68-69, 194-198.	2.2	74
17	Preparation of different basic Si-MCM-41 catalysts and application in the Knoevenagel and Claisen-Schmidt condensation reactions. <i>Journal of Catalysis</i> , 2010, 271, 220-227.	3.1	69
18	Comparative study on the bonding structure of hydrogenated and hydrogen free carbon nitride films with high N content. <i>Diamond and Related Materials</i> , 2000, 9, 577-581.	1.8	68

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19	On the structure of high performance anticorrosive PMMA-siloxane-silica hybrid coatings. RSC Advances, 2015, 5, 106754-106763.	1.7	68
20	Effective corrosion protection by eco-friendly self-healing PMMA-cerium oxide coatings. Chemical Engineering Journal, 2020, 383, 123219.	6.6	66
21	Electrical conductivity of amorphous hydrogenated carbon. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 72, 335-350.	0.6	64
22	A Comparative Study on Graphene Oxide and Carbon Nanotube Reinforcement of PMMA-Siloxane-Silica Anticorrosive Coatings. ACS Applied Materials & Interfaces, 2016, 8, 16339-16350.	4.0	64
23	Low tungsten content of nanostructured material supported on carbon for the degradation of phenol. Applied Catalysis B: Environmental, 2013, 142-143, 479-486.	10.8	61
24	Carbon nanotube-reinforced siloxane-PMMA hybrid coatings with high corrosion resistance. Progress in Organic Coatings, 2013, 76, 601-608.	1.9	59
25	Infrared analysis of deuterated carbon-nitrogen films obtained by dual-ion-beam-assisted-deposition. Applied Physics Letters, 1998, 73, 1065-1067.	1.5	58
26	Highly corrosion resistant siloxane-polymethyl methacrylate hybrid coatings. Journal of Sol-Gel Science and Technology, 2012, 63, 266-274.	1.1	57
27	Assessments of the Effect of Increasingly Severe Cathodic Pretreatments on the Electrochemical Activity of Polycrystalline Boron-Doped Diamond Electrodes. Analytical Chemistry, 2016, 88, 5363-5368.	3.2	57
28	Effects of increasing nitrogen concentration on the structure of carbon nitride films deposited by ion beam assisted deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2277.	0.9	51
29	Improvement of the corrosion resistance of polysiloxane hybrid coatings by cerium doping. Journal of Non-Crystalline Solids, 2010, 356, 2606-2612.	1.5	51
30	Structure and properties of epoxy-siloxane-silica nanocomposite coatings for corrosion protection. Journal of Colloid and Interface Science, 2018, 513, 617-628.	5.0	51
31	Surface and Catalytical effects on Treated Carbon Materials for Hydrogen Peroxide Electrogeneration. Electrocatalysis, 2016, 7, 60-69.	1.5	50
32	Siloxane-PMMA hybrid anti-corrosion coatings reinforced by lignin. Surface and Coatings Technology, 2015, 275, 9-16.	2.2	49
33	Nanostructured titanium boron nitride coatings of very high hardness. Surface and Coatings Technology, 1995, 74-75, 491-496.	2.2	48
34	Black and green pigments based on chromium-cobalt spinels. Materials Chemistry and Physics, 2011, 129, 619-624.	2.0	48
35	Influence of chemical sputtering on the composition and bonding structure of carbon nitride films. Thin Solid Films, 2001, 398-399, 116-123.	0.8	47
36	Hard graphitic-like amorphous carbon films with high stress and local microscopic density. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 971-975.	0.9	47

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37	Carbon-supported TiO ₂ @Au hybrids as catalysts for the electrogeneration of hydrogen peroxide: Investigating the effect of TiO ₂ shape. <i>Journal of Catalysis</i> , 2015, 326, 100-106.	3.1	45
38	Vibrational analysis of amorphous carbon-nitrogen alloys by ¹⁵ N and D isotopic substitution. <i>Physical Review B</i> , 2000, 61, 1083-1087.	1.1	42
39	Influence of the preparation method and the support on H ₂ O ₂ electrogeneration using cerium oxide nanoparticles. <i>Electrochimica Acta</i> , 2013, 111, 339-343.	2.6	42
40	Structural properties of cerium doped siloxane@PMMA hybrid coatings with high anticorrosive performance. <i>RSC Advances</i> , 2015, 5, 15414-15424.	1.7	42
41	Simultaneous degradation of the anticancer drugs 5-fluorouracil and cyclophosphamide using a heterogeneous photo-Fenton process based on copper-containing magnetites (Fe _{3-x} Cu _x O ₄). <i>Chemosphere</i> , 2020, 241, 124990.	4.2	41
42	Hydroxyapatite and ¹²⁵ I-TCP modified PMMA-TiO ₂ and PMMA-ZrO ₂ coatings for bioactive corrosion protection of Ti6Al4V implants. <i>Materials Science and Engineering C</i> , 2020, 116, 111149.	3.8	39
43	Fenton-like degradation of sulfathiazole using copper-modified MgFe-CO ₃ layered double hydroxide. <i>Journal of Hazardous Materials</i> , 2021, 413, 125388.	6.5	38
44	Degradation of dipyrone via advanced oxidation processes using a cerium nanostructured electrocatalyst material. <i>Applied Catalysis A: General</i> , 2013, 462-463, 256-261.	2.2	36
45	As-synthesized TEA-BEA zeolite: Effect of Si/Al ratio on the Knoevenagel condensation. <i>Microporous and Mesoporous Materials</i> , 2015, 202, 198-207.	2.2	36
46	W@Au Nanostructures Modifying Carbon as Materials for Hydrogen Peroxide Electrogeneration. <i>Electrochimica Acta</i> , 2017, 231, 713-720.	2.6	36
47	Pressure-induced physical changes of noble gases implanted in highly stressed amorphous carbon films. <i>Physical Review B</i> , 2003, 68, .	1.1	34
48	On the structure of argon assisted amorphous carbon films. <i>Diamond and Related Materials</i> , 2000, 9, 796-800.	1.8	33
49	APTES-Modified RE ₂ O ₃ :Eu ³⁺ Luminescent Beads: Structure and Properties. <i>Langmuir</i> , 2012, 28, 3962-3971.	1.6	31
50	Barrier properties of high performance PMMA-silica anticorrosion coatings. <i>Progress in Organic Coatings</i> , 2020, 138, 105398.	1.9	31
51	Microwave synthesis of Ti/(RuO ₂) _{0.5} (IrO ₂) _{0.5} anodes: Improved electrochemical properties and stability. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114460.	1.9	30
52	Efficiency of ethanol conversion induced by controlled modification of pore structure and acidic properties of alumina catalysts. <i>Applied Catalysis A: General</i> , 2011, 398, 59-65.	2.2	28
53	Iridium~Rhodium Nanoparticles for Ammonia Oxidation: Electrochemical and Fuel Cell Studies. <i>ChemElectroChem</i> , 2017, 4, 1101-1107.	1.7	27
54	Dual Role of Lithium on the Structure and Self-Healing Ability of PMMA-Silica Coatings on AA7075 Alloy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40629-40641.	4.0	27

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55	Hydrogen induced changes on the electronic structure of carbon nitride films. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 645-649.	1.5	26
56	Are new TiNbZr alloys potential substitutes of the Ti6Al4V alloy for dental applications? An electrochemical corrosion study. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 065005.	1.7	26
57	Sodium titanate as basic catalyst in transesterification reactions. <i>Fuel</i> , 2014, 118, 48-54.	3.4	26
58	Synthesis and Characterization of ZrO ₂ /C as Electrocatalyst for Oxygen Reduction to H ₂ O ₂ . <i>Electrocatalysis</i> , 2017, 8, 189-195.	1.5	25
59	A comparative study on PMMA-TiO ₂ and PMMA-ZrO ₂ protective coatings. <i>Progress in Organic Coatings</i> , 2020, 140, 105477.	1.9	25
60	Identification of structural changes in carbon-nitrogen alloys by studying the dependence of the plasmon energy on nitrogen concentration. <i>Applied Physics Letters</i> , 1998, 73, 3521-3523.	1.5	24
61	TiO ₂ -Cu photocatalysts: a study on the long- and short-range chemical environment of the dopant. <i>Journal of Materials Science</i> , 2013, 48, 3904-3912.	1.7	24
62	PMMA-silica nanocomposite coating: Effective corrosion protection and biocompatibility for a Ti6Al4V alloy. <i>Materials Science and Engineering C</i> , 2020, 110, 110713.	3.8	24
63	Structure and properties of chemically synthesized BiFeO ₃ . Influence of fuel and complexing agent. <i>Ceramics International</i> , 2015, 41, 69-77.	2.3	23
64	Niobium: a promising Pd co-electrocatalyst for ethanol electrooxidation reactions. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1495-1506.	1.2	22
65	XPS Study of the Corrosion Protection of Fluorozirconate Glasses Dip-Coated with SnO ₂ Transparent Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 32, 155-160.	1.1	21
66	The valuable role of renucleation rate in ultrananocrystalline diamond growth. <i>Diamond and Related Materials</i> , 2012, 23, 112-119.	1.8	21
67	Low-temperature sputter deposition and characterisation of carbon nitride films. <i>Surface and Coatings Technology</i> , 1997, 97, 544-551.	2.2	20
68	PtSnIr/C anode electrocatalysts: promoting effect in direct ethanol fuel cells. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 1146-1153.	0.6	20
69	Structure and properties of Ti ⁴⁺ -ureasil organic-inorganic hybrids. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 443-452.	0.6	19
70	Spectroscopic characterization of the reduction and removal of chromium (VI) by tropical peat and humin. <i>Fuel</i> , 2012, 91, 141-146.	3.4	19
71	Improvement of the photocatalytic activity of magnetite by Mn-incorporation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 181, 64-69.	1.7	19
72	Effect of Ce(III) and Ce(IV) ions on the structure and active protection of PMMA-silica coatings on AA7075 alloy. <i>Corrosion Science</i> , 2021, 189, 109581.	3.0	19

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73	Sn-containing electrocatalysts with a reduced amount of palladium for alkaline direct ethanol fuel cell applications. <i>Renewable Energy</i> , 2020, 158, 49-63.	4.3	18
74	A comprehensive nitriding study by low energy ion beam implantation on stainless steel. <i>Surface and Coatings Technology</i> , 2001, 146-147, 405-409.	2.2	17
75	Removal of metal ions from aqueous solution by chelating polymeric hydrogel. <i>Environmental Chemistry Letters</i> , 2010, 8, 343-348.	8.3	17
76	The influence of hydrogen plasma pre-treatment on the structure of BDND electrode surface applied for phenol detection. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6133-6139.	0.8	17
77	Surface modification of ZnO quantum dots by organosilanes and oleic acid with enhanced luminescence for potential biological application. <i>Materials Research Express</i> , 2017, 4, 015027.	0.8	17
78	Carbon nanotube plasma functionalization: The role of carbon nanotube/maleic anhydride solid premix. <i>Applied Surface Science</i> , 2019, 491, 405-410.	3.1	17
79	Influence of the RuO ₂ layer thickness on the physical and electrochemical properties of anodes synthesized by the ionic liquid method. <i>Electrochimica Acta</i> , 2020, 354, 136625.	2.6	16
80	Effect of the interlamellar anion on CuMgFe-LDH in solar photo-Fenton and Fenton-like degradation of the anticancer drug 5-fluorouracil. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121537.	10.8	15
81	Bifunctional silica nanoparticles for the exploration of biofilms of <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , 2013, 29, 775-788.	0.8	14
82	Sulfated zirconia foams synthesized by integrative route combining surfactants, air bubbles and sol-gel transition applied to heterogeneous catalysis. <i>RSC Advances</i> , 2016, 6, 6686-6694.	1.7	14
83	Protective PMMA-silica coatings for aluminum alloys: Nanostructural control of elevated thermal stability and anticorrosive performance. <i>Progress in Organic Coatings</i> , 2021, 152, 106129.	1.9	14
84	Gas phase photocatalytic bacteria inactivation using metal modified TiO ₂ catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 253, 38-44.	2.0	13
85	Electrical and optical properties of plasma-deposited amorphous hydrocarbon films. <i>Journal of Non-Crystalline Solids</i> , 1991, 137-138, 843-846.	1.5	12
86	Ambiguous doping effects in amorphous hydrogenated carbon films prepared by PACVD. <i>Diamond and Related Materials</i> , 1994, 3, 1103-1106.	1.8	11
87	Hardness and elasticity of diamond-like carbon films prepared by ion-beam assisted sputter deposition. <i>Diamond and Related Materials</i> , 1994, 3, 770-774.	1.8	11
88	Photo-induced effects in Ge ₂₅ Ga ₁₀ S ₆₅ glasses studied by XPS and XAS. <i>Solid State Ionics</i> , 2005, 176, 1403-1409.	1.3	11
89	Photoelectron spectroscopic study of amorphous GaAsN films. <i>Applied Physics Letters</i> , 2000, 76, 2211-2213.	1.5	10
90	Study on the initial stages of water corrosion of fluorozirconate glasses. <i>Journal of Non-Crystalline Solids</i> , 2004, 348, 38-43.	1.5	10

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91	Density improvement of the sol-gel dip-coated SnO ₂ films by chemical surface modification. Journal of the European Ceramic Society, 2005, 25, 2045-2049.	2.8	10
92	When a Red-emissive Cs ₂ [Mo ₆ Br ₁₄] Interacts with an Active Diuretic PEO Matrix: Design of Tunable and White-light-emitting Hybrid Material. Chemistry - A European Journal, 2019, 25, 15248-15251.	1.7	10
93	XPS study on water corrosion of fluorozirconate glasses and their protection by a layer of surface modified tin dioxide nanoparticles. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 128-134.	0.8	9
94	Structural and optical features of ureasiloxane-polyethylene oxide hybrids containing CeO ₂ nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 73-80.	2.3	9
95	Carbon Modified with Vanadium Nanoparticles for Hydrogen Peroxide Electrogenation. Electrocatalysis, 2017, 8, 311-320.	1.5	9
96	Insights in the Study of the Oxygen Reduction Reaction in Direct Ethanol Fuel Cells using Hybrid Platinum-Ceria Nanorods Electrocatalysts. ChemElectroChem, 2019, 6, 5124-5135.	1.7	9
97	Surface composition and catalytic activity of an iron mining residue for simultaneous degradation of sulfonamide antibiotics. Environmental Science and Pollution Research, 2020, 27, 1710-1720.	2.7	9
98	Nanostructured Poly(methyl Methacrylate)-Silica Coatings for Corrosion Protection of Reinforcing Steel. ACS Applied Nano Materials, 2022, 5, 2603-2615.	2.4	9
99	EXAFS study of noble gases implanted in highly stressed amorphous carbon films. Journal of Non-Crystalline Solids, 2002, 299-302, 805-809.	1.5	8
100	Controlled growth of anodic aluminium oxide films with hexagonal array of nanometer-sized pores filled with textured copper nanowires. Journal of the European Ceramic Society, 2010, 30, 181-186.	2.8	8
101	Organic-Inorganic Hybrid Coatings for Corrosion Protection of Metallic Surfaces. , 0, , .		8
102	Self-supported nickel nanoparticles on germanophosphate glasses: synthesis and applications in catalysis. RSC Advances, 2019, 9, 17157-17164.	1.7	8
103	A new approach on synergistic effect and chemical stability of graphene oxide-magnetic nanocomposite in the heterogeneous Fenton degradation of caffeine. Environmental Science and Pollution Research, 2021, 28, 55014-55028.	2.7	8
104	Electrical characterization of plasma-deposited hydrogenated amorphous carbon films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 139, 334-388.	2.6	7
105	Nanostructure and properties of ZnO films produced by the pyrosol process. Journal of Applied Crystallography, 2003, 36, 435-438.	1.9	7
106	On the stability of the passive Ti-6Al-4V film of friction stir welds with stainless steel: Effect of native metal species. Electrochimica Acta, 2020, 358, 136900.	2.6	7
107	Electrocatalysts based on low amounts of palladium combined with tin nanoparticles and cerium dioxide nanorods for application as ADFEC anodes. International Journal of Hydrogen Energy, 2021, 46, 39438-39456.	3.8	7
108	Structure and catalytic properties of sulfated zirconia foams. Journal of Sol-Gel Science and Technology, 2014, 72, 252-259.	1.1	6

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109	On the supercapacitor performance of microwave heat treated self organized TiO ₂ nanotubes: influence of the cathodic pre-treatment, water aging, and thermal oxide. <i>Electrochimica Acta</i> , 2017, 245, 165-172.	2.6	6
110	Amine functionalization of carbon nanotubes with solid urea using different plasma treatments. <i>Applied Surface Science</i> , 2022, 583, 152493.	3.1	6
111	Influence of stress on the electron core level energies of noble gases implanted in hard amorphous carbon films. <i>Diamond and Related Materials</i> , 2001, 10, 956-959.	1.8	5
112	Faujasites exchanged with alkylammonium cations applied to basic catalysis. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 159-168.	2.2	5
113	Advanced organic nanocomposite coatings for effective corrosion protection. , 2020, , 315-343.		5
114	Smart PMMA- cerium oxide anticorrosive coatings: Effect of ceria content on structure and electrochemical properties. <i>Progress in Organic Coatings</i> , 2021, 161, 106548.	1.9	5
115	Recent Advances in Nanostructured Polymer Composites for Biomedical Applications. , 2019, , 21-52.		4
116	On the performance of self-organized TiO ₂ nanotubes@MnO _x as supercapacitor: Influence of the heat treatment, cathodic treatment, water aging, and thermal oxides. <i>Electrochimica Acta</i> , 2022, 408, 139898.	2.6	4
117	Electrochemical Behavior of a Glassy Carbon Electrode Chemically Modified with Nickel Pentacyanonitrosylferrate in Presence of Sulfur Compounds. <i>Electroanalysis</i> , 2011, 23, 1488-1496.	1.5	3
118	Protective Coatings Based on PMMA-Silica Nanocomposites Reinforced with Carbon Nanotubes. , 2016, , .		3
119	Degradation of organic compounds in a fenton system based on chitosan/Fe ₀ /Fe ₂ O ₃ composites: a theoretical and experimental study. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 377-386.	1.2	3
120	Green-High-Performance PMMA-Silica-Li Barrier Coatings. <i>Corrosion and Materials Degradation</i> , 2022, 3, 303-319.	1.0	3
121	Structural properties of hydrogenated carbon-nitride films produced by ion-beam-assisted evaporation of the molecular precursor C ₄ N ₆ H ₄ . <i>Journal of Applied Physics</i> , 2001, 89, 7852-7859.	1.1	2
122	Corrosion Behavior of Fe-Mn-Si-Cr-Ni-Co Shape Memory Stainless Steel in Highly Oxidizing Medium. <i>Materials Science Forum</i> , 0, 869, 669-674.	0.3	2
123	Degradation of Acid Red 8 Dye Using Photo-Fenton Reaction Mediated by Titanium Modified Catalysts. <i>Journal of the Brazilian Chemical Society</i> , 2019, , .	0.6	2
124	Self-healing nanocoatings. , 2022, , 371-401.		2
125	Corrosion protection of fluorozirconate glasses coated by a layer of surface modified tin oxide nanoparticles. <i>Thin Solid Films</i> , 2006, 502, 94-98.	0.8	1
126	Fast and Inexpensive Synthesis of Multilayer Graphene Used as Pd Support in Alkaline Direct Ethanol Fuel Cell Anode. <i>Electrocatalysis</i> , 2021, 12, 715.	1.5	1

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127	Improvement of the chemical resistance of zirconium fluoride glasses coated with a Tiron [®] modified tin oxide layer prepared by the sol-gel process. Journal of Non-Crystalline Solids, 2006, 352, 3653-3658.	1.5	0
128	Bifunctional silica nanoparticles for the exploration of Pseudomonas aeruginosa biofilm. , 2016, , .		0
129	Organic-Inorganic Hybrid Coatings for Active and Passive Corrosion Protection. , 0, , .		0