

Vambola Kisand

List of Publications by Year in descending order

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times ranked

9672
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Dependent Toxicity of Silver Nanoparticles to Bacteria, Yeast, Algae, Crustaceans and Mammalian Cells In Vitro. PLoS ONE, 2014, 9, e102108.	1.1	465
2	Electrocatalysis of oxygen reduction on heteroatom-doped nanocarbons and transition metal-nitrogen-carbon catalysts for alkaline membrane fuel cells. Journal of Materials Chemistry A, 2018, 6, 776-804.	5.2	357
3	Surface redox catalysis for O ₂ reduction on quinone-modified glassy carbon electrodes. Journal of Electroanalytical Chemistry, 2001, 515, 101-112.	1.9	341
4	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. Applied Catalysis B: Environmental, 2017, 204, 394-402.	10.8	294
5	Highly active nitrogen-doped few-layer graphene/carbon nanotube composite electrocatalyst for oxygen reduction reaction in alkaline media. Carbon, 2014, 73, 361-370.	5.4	251
6	Electrochemical reduction of oxygen on anthraquinone-modified glassy carbon electrodes in alkaline solution. Journal of Electroanalytical Chemistry, 2003, 541, 23-29.	1.9	216
7	Electrocatalytic oxygen reduction on nitrogen-doped graphene in alkaline media. Applied Catalysis B: Environmental, 2014, 147, 369-376.	10.8	215
8	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types & In Vitro. Current Topics in Medicinal Chemistry, 2015, 15, 1914-1929.	1.0	190
9	Photocatalytic antibacterial activity of nano-TiO ₂ (anatase)-based thin films: Effects on Escherichia coli cells and fatty acids. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 178-185.	1.7	190
10	Electroreduction of oxygen on nitrogen-doped carbon nanotube modified glassy carbon electrodes in acid and alkaline solutions. Journal of Electroanalytical Chemistry, 2010, 648, 169-175.	1.9	187
11	Is the H ₂ economy realizable in the foreseeable future? Part I: H ₂ production methods. International Journal of Hydrogen Energy, 2020, 45, 13777-13788.	3.8	186
12	Is the H ₂ economy realizable in the foreseeable future? Part III: H ₂ usage technologies, applications, and challenges and opportunities. International Journal of Hydrogen Energy, 2020, 45, 28217-28239.	3.8	139
13	Oxygen reduction reaction on nanostructured Pt-based electrocatalysts: A review. International Journal of Hydrogen Energy, 2020, 45, 31775-31797.	3.8	127
14	Electrocatalysis of oxygen reduction on nitrogen-containing multi-walled carbon nanotube modified glassy carbon electrodes. Electrochimica Acta, 2013, 87, 709-716.	2.6	114
15	The pH-dependence of oxygen reduction on multi-walled carbon nanotube modified glassy carbon electrodes. Carbon, 2009, 47, 651-658.	5.4	111
16	Oxygen Reduction Reaction on Silver Catalysts in Alkaline Media: a Minireview. ChemElectroChem, 2019, 6, 73-86.	1.7	110
17	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. Electrochemistry Communications, 2011, 13, 734-737.	2.3	108
18	Electroreduction of oxygen on multi-walled carbon nanotubes modified highly oriented pyrolytic graphite electrodes in alkaline solution. Journal of Electroanalytical Chemistry, 2006, 597, 119-126.	1.9	94

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19	Co doped ZnO nanowires as visible light photocatalysts. <i>Solid State Sciences</i> , 2016, 56, 54-62.	1.5	94
20	Synthesis of highly-active Fe-N-C catalysts for PEMFC with carbide-derived carbons. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14663-14674.	5.2	94
21	Oxygen reduction on graphene-supported MN4 macrocycles in alkaline media. <i>Electrochemistry Communications</i> , 2013, 33, 18-22.	2.3	92
22	Highly efficient nitrogen-doped carbide-derived carbon materials for oxygen reduction reaction in alkaline media. <i>Carbon</i> , 2017, 113, 159-169.	5.4	88
23	Enhanced oxygen reduction reaction activity of iron-containing nitrogen-doped carbon nanotubes for alkaline direct methanol fuel cell application. <i>Journal of Power Sources</i> , 2016, 332, 129-138.	4.0	86
24	Transition-Metal- and Nitrogen-Doped Carbide-Derived Carbon/Carbon Nanotube Composites as Cathode Catalysts for Anion-Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2021, 11, 1920-1931.	5.5	85
25	Recent progress in oxygen reduction electrocatalysis on Pd-based catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 327-336.	1.9	77
26	Effect of purification of carbon nanotubes on their electrocatalytic properties for oxygen reduction in acid solution. <i>Carbon</i> , 2011, 49, 4031-4039.	5.4	76
27	Electrochemical reduction of oxygen on thin-film Pt electrodes in acid solutions. <i>Electrochimica Acta</i> , 2008, 53, 5873-5880.	2.6	74
28	Oxygen reduction on carbon nanomaterial-modified glassy carbon electrodes in alkaline solution. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1269-1277.	1.2	74
29	Cobalt- and iron-containing nitrogen-doped carbon aerogels as non-precious metal catalysts for electrochemical reduction of oxygen. <i>Journal of Electroanalytical Chemistry</i> , 2015, 746, 9-17.	1.9	74
30	Enhanced oxygen reduction reaction activity of nitrogen-doped graphene/multi-walled carbon nanotube catalysts in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22510-22519.	3.8	74
31	Highly efficient transition metal and nitrogen co-doped carbide-derived carbon electrocatalysts for anion exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2018, 375, 233-243.	4.0	74
32	Electrochemical Reduction of Oxygen on Multiwalled Carbon Nanotube Modified Glassy Carbon Electrodes in Acid Media. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, F18.	2.2	73
33	Transition metal-nitrogen co-doped carbide-derived carbon catalysts for oxygen reduction reaction in alkaline direct methanol fuel cell. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 276-286.	10.8	72
34	Nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion exchange membrane fuel cell application. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119012.	10.8	72
35	Enhanced electrocatalytic activity of nitrogen-doped multi-walled carbon nanotubes towards the oxygen reduction reaction in alkaline media. <i>RSC Advances</i> , 2015, 5, 59495-59505.	1.7	71
36	Graphene-TiO ₂ composite supported Pt electrocatalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 107, 509-517.	2.6	69

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37	Electroreduction of oxygen on palladium nanoparticles supported on nitrogen-doped graphene nanosheets. <i>Electrochimica Acta</i> , 2014, 137, 206-212.	2.6	66
38	Cobalt-Nitrogen Co-doped Carbon Nanotube Cathode Catalyst for Alkaline Membrane Fuel Cells. <i>ChemElectroChem</i> , 2016, 3, 1455-1465.	1.7	66
39	Bifunctional Oxygen Electrocatalysis on Mixed Metal Phthalocyanine-Modified Carbon Nanotubes Prepared via Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41507-41516.	4.0	65
40	Heat-treatment effects on the ORR activity of Pt nanoparticles deposited on multi-walled carbon nanotubes using magnetron sputtering technique. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5958-5970.	3.8	64
41	High oxygen reduction activity of few-walled carbon nanotubes with low nitrogen content. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 233-241.	10.8	62
42	Cathode Catalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Anion Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 5375-5384.	2.5	61
43	Electrocatalysis of oxygen reduction by quinones adsorbed on highly oriented pyrolytic graphite electrodes. <i>Electrochimica Acta</i> , 2010, 55, 6376-6382.	2.6	60
44	Highly active nitrogen-doped nanocarbon electrocatalysts for alkaline direct methanol fuel cell. <i>Journal of Power Sources</i> , 2015, 281, 94-102.	4.0	58
45	Oxygen reduction on Nafion-coated thin-film palladium electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 1-7.	1.9	57
46	Stabilizer-free silver nanoparticles as efficient catalysts for electrochemical reduction of oxygen. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 358-366.	5.0	56
47	Platinum Nanoparticles Supported on Nitrogen-Doped Graphene Nanosheets as Electrocatalysts for Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2016, 7, 428-440.	1.5	53
48	Iron- and Nitrogen-Doped Graphene-Based Catalysts for Fuel Cell Applications. <i>ChemElectroChem</i> , 2020, 7, 1739-1747.	1.7	53
49	Oxygen Electroreduction on Multi-Walled Carbon Nanotube Supported Metal Phthalocyanines and Porphyrins in Alkaline Media. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 621-627.	0.9	51
50	Electrocatalysis of oxygen reduction by iron-containing nitrogen-doped carbon aerogels in alkaline solution. <i>Electrochimica Acta</i> , 2017, 230, 81-88.	2.6	51
51	An Oxygen Reduction Study of Graphene-Based Nanomaterials of Different Origin. <i>Catalysts</i> , 2016, 6, 108.	1.6	50
52	Electrocatalytic oxygen reduction reaction on iron phthalocyanine-modified carbide-derived carbon/carbon nanotube composite electrocatalysts. <i>Electrochimica Acta</i> , 2020, 334, 135575.	2.6	50
53	Transition metal-containing nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol for anion exchange membrane fuel cell application. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 263-274.	5.0	50
54	Non-precious metal cathodes for anion exchange membrane fuel cells from ball-milled iron and nitrogen doped carbide-derived carbons. <i>Renewable Energy</i> , 2021, 167, 800-810.	4.3	50

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55	Electroreduction of oxygen on sputter-deposited Pd nanolayers on multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3614-3620.	3.8	48
56	Platinum nanoparticles photo-deposited on SnO ₂ -C composites: An active and durable electrocatalyst for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2019, 316, 162-172.	2.6	48
57	Oxygen reduction on Pd nanoparticle/multi-walled carbon nanotube composites. <i>Journal of Electroanalytical Chemistry</i> , 2012, 666, 67-75.	1.9	47
58	Nitrogen-doped carbon-based electrocatalysts synthesised by ball-milling. <i>Electrochemistry Communications</i> , 2018, 93, 39-43.	2.3	47
59	Cobalt-Containing Nitrogen-Doped Carbon Aerogels as Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 2079-2088.	1.7	46
60	Orthorhombic CaFe ₂ O ₄ : A promising p-type gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 260-265.	4.0	46
61	Sulphur and nitrogen co-doped graphene-based electrocatalysts for oxygen reduction reaction in alkaline medium. <i>Electrochemistry Communications</i> , 2019, 109, 106603.	2.3	46
62	Mesoporous textured Fe-N-C electrocatalysts as highly efficient cathodes for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 520, 230819.	4.0	46
63	Oxygen electroreduction on MN ₄ -macrocycle modified graphene/multi-walled carbon nanotube composites. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 69-76.	1.9	45
64	Electrocatalytic oxygen reduction on transition metal macrocyclic complexes for anion exchange membrane fuel cell application. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 207-213.	2.5	44
65	Mesoporous iron-nitrogen co-doped carbon material as cathode catalyst for the anion exchange membrane fuel cell. <i>Journal of Power Sources Advances</i> , 2021, 8, 100052.	2.6	43
66	Electrocatalysis of oxygen reduction on iron- and cobalt-containing nitrogen-doped carbon nanotubes in acid media. <i>Electrochimica Acta</i> , 2016, 218, 303-310.	2.6	42
67	Iron and Nitrogen Co-doped Carbide-Derived Carbon and Carbon Nanotube Composite Catalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 1827-1836.	1.7	42
68	Transition metal and nitrogen-doped mesoporous carbons as cathode catalysts for anion-exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121113.	10.8	42
69	Effects of Co ion addition and annealing conditions on nickel ferrite gas response. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 173-180.	4.0	41
70	Recombination luminescence of rare gas crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 122, 668-676.	0.6	40
71	Dissolution of Silver Nanowires and Nanospheres Dictates Their Toxicity to <i>Escherichia coli</i> . <i>BioMed Research International</i> , 2013, 2013, 1-9.	0.9	40
72	Shape-Dependent Electrocatalysis: Oxygen Reduction on Carbon-Supported Gold Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 1338-1347.	1.7	40

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73	High performance catalysts based on Fe/N co-doped carbide-derived carbon and carbon nanotube composites for oxygen reduction reaction in acid media. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12636-12648.	3.8	38
74	Study of the structural phase transformation of iron oxide nanoparticles from an Fe ²⁺ ion source by precipitation under various synthesis parameters and temperatures. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 473-479.	2.0	37
75	Oxygen electroreduction on carbon-supported Pd nanocubes in acid solutions. <i>Electrochimica Acta</i> , 2016, 188, 301-308.	2.6	37
76	UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 222-232.	2.5	37
77	Electroreduction of oxygen on cobalt phthalocyanine-modified carbide-derived carbon/carbon nanotube composite catalysts. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 57-71.	1.2	37
78	Electrochemical Reduction of Oxygen on Heat-Treated Pd Nanoparticle/Multi-Walled Carbon Nanotube Composites in Alkaline Solution. <i>Electrocatalysis</i> , 2013, 4, 42-48.	1.5	36
79	Effect of Ball-Milling on the Oxygen Reduction Reaction Activity of Iron and Nitrogen Co-doped Carbide-Derived Carbon Catalysts in Acid Media. <i>ACS Applied Energy Materials</i> , 2019, 2, 7952-7962.	2.5	36
80	Transition metal phthalocyanine-modified shungite-based cathode catalysts for alkaline membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4365-4377.	3.8	36
81	Photocatalytic activity of non-stoichiometric ZnFe ₂ O ₄ under visible light irradiation. <i>Physica Scripta</i> , 2014, 89, 044011.	1.2	35
82	Oxygen Electroreduction on Electrodeposited PdAu Nanoalloys. <i>Electrocatalysis</i> , 2015, 6, 77-85.	1.5	35
83	Electroreduction of oxygen in alkaline solution on iron phthalocyanine modified carbide-derived carbons. <i>Electrochimica Acta</i> , 2019, 299, 999-1010.	2.6	34
84	Bimetal Phthalocyanine-Modified Carbon Nanotube-Based Bifunctional Catalysts for Zinc-Air Batteries. <i>ChemElectroChem</i> , 2021, 8, 2662-2670.	1.7	34
85	Synthesis of p-type and n-type nickel ferrites and associated electrical properties. <i>Physica B: Condensed Matter</i> , 2015, 456, 232-236.	1.3	33
86	Hydrodynamic Deposition of Carbon Nanotubes onto HOPG: The Reduction of Oxygen on CNT/HOPG Electrodes in Alkaline Solution. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, F31.	2.2	31
87	Effect of cobalt doping and annealing on properties of titania thin films prepared by sol-gel process. <i>Applied Surface Science</i> , 2011, 257, 6897-6907.	3.1	31
88	Electrospun Polyacrylonitrile-Derived Co or Fe Containing Nanofibre Catalysts for Oxygen Reduction Reaction at the Alkaline Membrane Fuel Cell Cathode. <i>ChemCatChem</i> , 2020, 12, 4568-4581.	1.8	31
89	Polymer-derived Co/Ni-SiOC(N) ceramic electrocatalysts for oxygen reduction reaction in fuel cells. <i>Catalysis Science and Technology</i> , 2019, 9, 854-866.	2.1	30
90	Iron and cobalt containing electrospun carbon nanofibre-based cathode catalysts for anion exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31275-31287.	3.8	30

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91	Electrochemical Behaviour of HOPG and CVD-Grown Graphene Electrodes Modified with Thick Anthraquinone Films by Diazonium Reduction. <i>Electroanalysis</i> , 2014, 26, 2619-2630.	1.5	29
92	Oxygen reduction on electrodeposited silver catalysts in alkaline solution. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 81-89.	1.2	29
93	Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene-acrylonitrile copolymer and carbon nanotube composite fibres. <i>Journal of Materials Science</i> , 2019, 54, 11618-11634.	1.7	28
94	Long Term Exposure to Virgin and Recycled LDPE Microplastics Induced Minor Effects in the Freshwater and Terrestrial Crustaceans <i>Daphnia magna</i> and <i>Porcellio scaber</i> . <i>Polymers</i> , 2021, 13, 771.	2.0	28
95	Enhancing the electrocatalytic activity of Fe phthalocyanines for the oxygen reduction reaction by the presence of axial ligands: Pyridine-functionalized single-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2021, 398, 139263.	2.6	27
96	Blocking properties of gold electrodes modified with 4-nitrophenyl and 4-decylphenyl groups. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 569-578.	1.2	26
97	Effect of antisite defects on the magnetic properties of $ZnFe_2O_4$. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1892-1897.	0.8	26
98	Pt nanoparticles sputter-deposited on $TiO_2/MWCNT$ composites prepared by atomic layer deposition: Improved electrocatalytic activity towards the oxygen reduction reaction and durability in acid media. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4967-4977.	3.8	26
99	Oxygen reduction on graphene sheets functionalised by anthraquinone diazonium compound during electrochemical exfoliation of graphite. <i>Electrochimica Acta</i> , 2018, 267, 246-254.	2.6	25
100	Comparison of photocatalytic activity for different co-precipitated spinel ferrites. <i>Research on Chemical Intermediates</i> , 2015, 41, 9439-9449.	1.3	24
101	Electrocatalysis of oxygen reduction on multi-walled carbon nanotube supported copper and manganese phthalocyanines in alkaline media. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 921-929.	1.2	24
102	Silicon carbide-derived carbon electrocatalysts dual doped with nitrogen and phosphorus for the oxygen reduction reaction in an alkaline medium. <i>Electrochemistry Communications</i> , 2021, 125, 106976.	2.3	24
103	Effects of N and O groups for oxygen reduction reaction on one- and two-dimensional carbonaceous materials. <i>Electrochimica Acta</i> , 2020, 344, 136052.	2.6	23
104	Low temperature optical spectroscopy of nonlinear BBO crystals. <i>Physica Scripta</i> , 1996, 54, 542-544.	1.2	22
105	Improved ORR Activity and Long-Term Durability of Pt Nanoparticles Deposited on TiO_2 -Decorated Multiwall Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2019, 166, F1284-F1291.	1.3	22
106	Nitrogen and Phosphorus Dual-Doped Silicon Carbide-Derived Carbon/Carbon Nanotube Composite for the Anion-Exchange Membrane Fuel Cell Cathode. <i>ACS Applied Energy Materials</i> , 2022, 5, 2949-2958.	2.5	21
107	Oxygen Reduction on Fe- and Co-Containing Nitrogen-Doped Nanocarbons. <i>ChemElectroChem</i> , 2018, 5, 2002-2009.	1.7	20
108	Seagrass beds reveal high abundance of microplastic in sediments: A case study in the Baltic Sea. <i>Marine Pollution Bulletin</i> , 2021, 168, 112417.	2.3	20

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109	Luminescence of cation excitons in and crystals in a wide excitation VUV region. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 693-700.	0.7	19
110	Platinum Particles Electrochemically Deposited on Multiwalled Carbon Nanotubes for Oxygen Reduction Reaction in Acid Media. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1014-F1021.	1.3	19
111	Yttrium-doped hematite photoanodes for solar water splitting: Photoelectrochemical and electronic properties. <i>Ceramics International</i> , 2018, 44, 13218-13225.	2.3	19
112	Electrochemical reduction of oxygen in alkaline solution on Pd/C catalysts prepared by electrodeposition on various carbon nanomaterials. <i>Journal of Electroanalytical Chemistry</i> , 2019, 834, 223-232.	1.9	19
113	Fused Hybrid Linkers for Metal-Organic Framework-Derived Bifunctional Oxygen Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2020, 3, 152-157.	2.5	19
114	Impact of ball-milling of carbide-derived carbons on the generation of hydrogen peroxide via electroreduction of oxygen in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114690.	1.9	19
115	A straightforward and "green" solvothermal synthesis of Al doped zinc oxide plasmonic nanocrystals and piezoresistive elastomer nanocomposite. <i>RSC Advances</i> , 2015, 5, 63846-63852.	1.7	18
116	Oxygen reduction on thick anthraquinone films electrografted to glassy carbon. <i>Journal of Electroanalytical Chemistry</i> , 2013, 702, 8-14.	1.9	17
117	Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals. <i>Journal of Alloys and Compounds</i> , 2018, 763, 164-172.	2.8	17
118	Oxygen reduction on silver catalysts electrodeposited on various nanocarbon supports. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	17
119	Blocking Behavior of Covalently Attached Anthraquinone Towards Solution-Based Redox Probes. <i>Electroanalysis</i> , 2010, 22, 513-518.	1.5	16
120	Bifunctional multi-metallic nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol. <i>Electrochemistry Communications</i> , 2021, 124, 106932.	2.3	16
121	Photocatalytic activity of anatase-nickel ferrite heterostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 796-803.	0.8	15
122	Oxygen Reduction on Anthraquinone Diazonium Compound Derivatized Multi-walled Carbon Nanotube and Graphene Based Electrodes. <i>Electroanalysis</i> , 2017, 29, 548-558.	1.5	15
123	Branched relaxation of electronic excitations in rare-gas crystals with traps of different types. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 2769-2781.	0.7	14
124	Electroreduction of Oxygen on PdPt Alloy Nanocubes in Alkaline and Acidic Media. <i>ChemElectroChem</i> , 2017, 4, 2547-2555.	1.7	14
125	Oxygen Electroreduction on Pt Nanoparticles Deposited on Reduced Graphene Oxide and N-doped Reduced Graphene Oxide Prepared by Plasma-assisted Synthesis in Aqueous Solution. <i>ChemElectroChem</i> , 2018, 5, 2902-2911.	1.7	14
126	Electroreduction of oxygen on Nafion [®] -coated thin platinum films in acid media. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113292.	1.9	14

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127	Surface carboxylation or PEGylation decreases CuO nanoparticles' cytotoxicity to human cells in vitro without compromising their antibacterial properties. Archives of Toxicology, 2020, 94, 1561-1573.	1.9	14
128	Oxygen reduction reaction on Pd nanoparticles supported on novel mesoporous carbon materials. Electrochimica Acta, 2021, 394, 139132.	2.6	14
129	An Analysis of Electron-Hole Recombination in Solid Xenon with Time-Resolved Luminescence Spectroscopy. Physica Status Solidi (B): Basic Research, 1999, 214, 81-90.	0.7	13
130	Effect of phase composition on X-ray absorption spectra of ZrO ₂ thin films. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 303-306.	0.8	13
131	TiO ₂ nanowire dispersions in viscous polymer matrix: electrophoretic alignment and optical properties. Nanotechnology, 2014, 25, 415703.	1.3	13
132	Ag sensitized TiO ₂ and NiFe ₂ O ₄ three-component nanoheterostructures: synthesis, electronic structure and strongly enhanced visible light photocatalytic activity. RSC Advances, 2016, 6, 18834-18842.	1.7	13
133	Oxygen Reduction on Catalysts Prepared by Pyrolysis of Electrospun Styrene-Acrylonitrile Copolymer and Multi-walled Carbon Nanotube Composite Fibres. Catalysis Letters, 2018, 148, 1815-1826.	1.4	13
134	Oxygen Electroreduction in Alkaline Solution on Pd Coatings Prepared by Galvanic Exchange of Copper. Electrocatalysis, 2018, 9, 400-408.	1.5	13
135	Oxygen Reduction on Silver Nanoparticles Supported on Carbide-Derived Carbons. Journal of the Electrochemical Society, 2018, 165, F1199-F1205.	1.3	13
136	Platinum Sputtered on Nb-doped TiO ₂ Films Prepared by ALD: Highly Active and Durable Carbon-free ORR Electrocatalyst. Journal of the Electrochemical Society, 2020, 167, 164505.	1.3	13
137	Title is missing!. Journal of Low Temperature Physics, 1998, 111, 739-745.	0.6	12
138	High-resolution study of $K\alpha$ and resonant Auger decay in KF. Physical Review A, 2009, 80, .		
139	Influence of the heating temperature on the properties of nickel doped TiO ₂ films prepared by sol-gel method. Applied Surface Science, 2010, 256, 4538-4542.	3.1	12
140	Switchable optical transmittance of TiO ₂ submicron-diameter wire suspension-based smart window device. Optical Materials, 2015, 46, 418-422.	1.7	12
141	Facile synthesis of magnetically separable CoFe ₂ O ₄ /Ag ₂ O/Ag ₂ CO ₃ nanoheterostructures with high photocatalytic performance under visible light and enhanced stability against photodegradation. Journal of Environmental Chemical Engineering, 2017, 5, 3455-3462.	3.3	12
142	Valence electronic structure of [EMIM][BF ₄] ionic liquid: photoemission and DFT+D study. RSC Advances, 2018, 8, 30298-30304.	1.7	12
143	CO ₂ reduction to formate on an affordable bismuth metal-organic framework based catalyst. Journal of CO ₂ Utilization, 2022, 59, 101937.	3.3	12
144	Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts. Journal of Catalysis, 2021, 395, 178-187.	3.1	11

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145	Morphological influence of graphitic carbon nanofibers by Nâ€“F dual-doping on Pt electrocatalytic activity and stability for oxygen reduction reaction in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20617-20631.	3.8	11
146	Pinching of alkoxide jetsâ€“a route for preparing nanometre level sharp oxide fibres. <i>Nanotechnology</i> , 2007, 18, 125301.	1.3	10
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