

Ave Sarapuu

List of Publications by Year in descending order

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54
papers

3,052
citations

117453

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197535

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times ranked

3214
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalysis of oxygen reduction on heteroatom-doped nanocarbons and transition metalâ€“nitrogenâ€“carbon catalysts for alkaline membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 776-804.	5.2	357
2	Electrochemical reduction of oxygen on anthraquinone-modified glassy carbon electrodes in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2003, 541, 23-29.	1.9	216
3	Electrochemical reduction of oxygen on palladium nanocubes in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2012, 59, 329-335.	2.6	141
4	Oxygen reduction on phenanthrenequinone-modified glassy carbon electrodes in 0.1 M KOH. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 159-166.	1.9	129
5	Oxygen reduction reaction on nanostructured Pt-based electrocatalysts: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31775-31797.	3.8	127
6	Oxygen Reduction Reaction on Silver Catalysts in Alkaline Media: a Minireview. <i>ChemElectroChem</i> , 2019, 6, 73-86.	1.7	110
7	Electrocatalytic oxygen reduction on silver nanoparticle/multi-walled carbon nanotube modified glassy carbon electrodes in alkaline solution. <i>Electrochemistry Communications</i> , 2012, 20, 15-18.	2.3	109
8	Enhanced electrocatalytic activity of cubic Pd nanoparticles towards the oxygen reduction reaction in acid media. <i>Electrochemistry Communications</i> , 2011, 13, 734-737.	2.3	108
9	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
10	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
11	Electrochemical reduction of oxygen on thin-film Au electrodes in acid solution. <i>Electrochemistry Communications</i> , 2001, 3, 446-450.	2.3	77
12	Recent progress in oxygen reduction electrocatalysis on Pd-based catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2016, 780, 327-336.	1.9	77
13	Electrochemical reduction of oxygen on nanostructured gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 78-86.	1.9	75
14	Electrochemical reduction of oxygen on thin-film Pt electrodes in acid solutions. <i>Electrochimica Acta</i> , 2008, 53, 5873-5880.	2.6	74
15	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
16	Kinetics of Oxygen Reduction on Quinone-Modified HOPG and BDD Electrodes in Alkaline Solution. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, E30.	2.2	72
17	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
18	Electroreduction of oxygen on Vulcan carbon supported Pd nanoparticles and Pdâ€“M nanoalloys in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2011, 56, 6702-6708.	2.6	68

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19	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
20	Electrocatalysis of oxygen reduction by quinones adsorbed on highly oriented pyrolytic graphite electrodes. <i>Electrochimica Acta</i> , 2010, 55, 6376-6382.	2.6	60
21	Oxygen reduction on Nafion-coated thin-film palladium electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 1-7.	1.9	57
22	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
23	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
24	Electroreduction of oxygen on gold-supported nanostructured palladium films in acid solutions. <i>Electrochimica Acta</i> , 2010, 55, 6768-6774.	2.6	49
25	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
26	Cobalt-Containing Nitrogen-Doped Carbon Aerogels as Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 2079-2088.	1.7	46
27	Oxygen reduction reaction on carbon-supported palladium nanocubes in alkaline media. <i>Electrochemistry Communications</i> , 2016, 64, 9-13.	2.3	44
28	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
29	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
30	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
31	Electroreduction of oxygen on carbon-supported gold catalysts. <i>Electrochimica Acta</i> , 2009, 54, 7483-7489.	2.6	41
32	Shape-Dependent Electrocatalysis: Oxygen Reduction on Carbon-Supported Gold Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 1338-1347.	1.7	40
33	Oxygen electroreduction on carbon-supported Pd nanocubes in acid solutions. <i>Electrochimica Acta</i> , 2016, 188, 301-308.	2.6	37
34	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
35	Oxygen reduction on electrodeposited Pd coatings on glassy carbon. <i>Electrochimica Acta</i> , 2013, 88, 513-518.	2.6	35
36	Oxygen Electroreduction on Electrodeposited PdAu Nanoalloys. <i>Electrocatalysis</i> , 2015, 6, 77-85.	1.5	35

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37	Electroreduction of oxygen on nitrogen-doped graphene oxide supported silver nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 197-203.	1.9	35
38	Electroreduction of oxygen on gold-supported thin Pt films in acid solutions. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 144-150.	1.9	24
39	Electrocatalysis of oxygen reduction on electrodeposited Pd coatings on gold. <i>Journal of Electroanalytical Chemistry</i> , 2013, 691, 35-41.	1.9	22
40	Oxygen Reduction on Fe- and Co-Containing Nitrogen-Doped Nanocarbons. <i>ChemElectroChem</i> , 2018, 5, 2002-2009.	1.7	20
41	Oxygen reduction on thick anthraquinone films electrografted to glassy carbon. <i>Journal of Electroanalytical Chemistry</i> , 2013, 702, 8-14.	1.9	17
42	Bifunctional multi-metallic nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol. <i>Electrochemistry Communications</i> , 2021, 124, 106932.	2.3	16
43	Electroreduction of oxygen on Nafion®-coated thin platinum films in acid media. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113292.	1.9	14
44	Electroreduction of Oxygen on Carbide-Derived Carbon Supported Pd Catalysts. <i>ChemElectroChem</i> , 2020, 7, 546-554.	1.7	10
45	Iron-Containing Nitrogen-Doped Carbon Nanomaterials Prepared via NaCl Template as Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2021, 8, 2288-2297.	1.7	7
46	Electrocatalysis of oxygen reduction on glassy carbon electrodes modified with anthraquinone moieties. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1725-1733.	1.2	4
47	Electroreduction of oxygen on iron- and cobalt-containing nitrogen-doped carbon catalysts prepared from the rapeseed press cake. <i>Journal of Electroanalytical Chemistry</i> , 2022, 920, 116599.	1.9	4
48	Cobalt-Containing Nitrogen-Doped Carbon Materials Derived from Saccharides as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Catalysts</i> , 2022, 12, 568.	1.6	3
49	Transition Metal and Nitrogen-Doped Carbide-Derived Carbon/Carbon Nanotube Composites As Cathode Catalysts for Anion-Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1213-1213.	0.0	1
50	Nitrogen-Doped Carbide-Derived Carbon/Carbon Nanotube Composites As Cathode Catalysts for Anion Exchange Membrane Fuel Cell Application. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2390-2390.	0.0	0
51	Electrocatalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Oxygen Reduction Reaction and Anion Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2396-2396.	0.0	0
52	Transition Metal-Containing Nitrogen-Doped Nanocarbons Derived from 5-Methylresorcinol for Anion Exchange Membrane Fuel Cell Application. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2361-2361.	0.0	0
53	Transition Metal and Nitrogen-Doped Mesoporous Carbons As Cathode Catalysts for Anion-Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1521-1521.	0.0	0
54	Fe- and Co-Containing Nitrogen-Doped Nanocarbon Catalysts from 5-Methylresorcinol for Anion Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1418-1418.	0.0	0