

# Elo Kibena-Põldsepp

## List of Publications by Year in descending order

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51  
papers

2,126  
citations

201674

27  
h-index

233421

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalysis of oxygen reduction on heteroatom-doped nanocarbons and transition metal-“nitrogen” carbon catalysts for alkaline membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 776-804.	10.3	357
2	Porous N,P-doped carbon from coconut shells with high electrocatalytic activity for oxygen reduction: Alternative to Pt-C for alkaline fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 394-402.	20.2	294
3	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.	11.2	85
4	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.	20.2	72
5	Bifunctional Oxygen Electrocatalysis on Mixed Metal Phthalocyanine-Modified Carbon Nanotubes Prepared via Pyrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41507-41516.	8.0	65
6	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.	5.1	61
7	Novel multi walled carbon nanotube based nitrogen impregnated Co and Fe cathode catalysts for improved microbial fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23027-23035.	7.1	58
8	Iron- and Nitrogen- Doped Graphene- Based Catalysts for Fuel Cell Applications. <i>ChemElectroChem</i> , 2020, 7, 1739-1747.	3.4	53
9	An Oxygen Reduction Study of Graphene-Based Nanomaterials of Different Origin. <i>Catalysts</i> , 2016, 6, 108.	3.5	50
10	Electrocatalytic oxygen reduction reaction on iron phthalocyanine-modified carbide-derived carbon/carbon nanotube composite electrocatalysts. <i>Electrochimica Acta</i> , 2020, 334, 135575.	5.2	50
11	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.	9.4	50
12	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.	8.9	50
13	Nitrogen-doped carbon-based electrocatalysts synthesised by ball-milling. <i>Electrochemistry Communications</i> , 2018, 93, 39-43.	4.7	47
14	Sulphur and nitrogen co-doped graphene-based electrocatalysts for oxygen reduction reaction in alkaline medium. <i>Electrochemistry Communications</i> , 2019, 109, 106603.	4.7	46
15	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.	7.8	46
16	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.	5.1	43
17	Iron and Nitrogen Co- doped Carbide- Derived Carbon and Carbon Nanotube Composite Catalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 1827-1836.	3.4	42
18	Multi-walled carbon nanotube and carbide-derived carbon supported metal phthalocyanines as cathode catalysts for microbial fuel cell applications. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3525-3537.	4.9	40

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19	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.	7.1	38
20	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.	2.5	37
21	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.	5.1	36
22	Transition metal phthalocyanine-modified shungite-based cathode catalysts for alkaline membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4365-4377.	7.1	36
23	Bimetal Phthalocyanine-Modified Carbon Nanotube-Based Bifunctional Catalysts for Zinc-Air Batteries. <i>ChemElectroChem</i> , 2021, 8, 2662-2670.	3.4	34
24	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.	3.7	31
25	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.	4.1	30
26	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.	7.1	30
27	Electrochemical Behaviour of HOPG and CVD-Grown Graphene Electrodes Modified with Thick Anthraquinone Films by Diazonium Reduction. <i>Electroanalysis</i> , 2014, 26, 2619-2630.	2.9	29
28	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.	3.7	28
29	Oxygen reduction on graphene sheets functionalised by anthraquinone diazonium compound during electrochemical exfoliation of graphite. <i>Electrochimica Acta</i> , 2018, 267, 246-254.	5.2	25
30	Effects of N and O groups for oxygen reduction reaction on one- and two-dimensional carbonaceous materials. <i>Electrochimica Acta</i> , 2020, 344, 136052.	5.2	23
31	Surface and electrochemical characterisation of CVD grown graphene sheets. <i>Electrochemistry Communications</i> , 2013, 35, 26-29.	4.7	22
32	Electrografting and morphological studies of chemical vapour deposition grown graphene sheets modified by electroreduction of aryldiazonium salts. <i>Electrochimica Acta</i> , 2015, 161, 195-204.	5.2	21
33	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.	5.1	21
34	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.	3.8	19
35	Oxygen reduction on thick anthraquinone films electrografted to glassy carbon. <i>Journal of Electroanalytical Chemistry</i> , 2013, 702, 8-14.	3.8	17
36	A study of glassy carbon electrodes modified with azobenzene derivatives. <i>Journal of Electroanalytical Chemistry</i> , 2012, 686, 46-53.	3.8	15

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37	Oxygen Reduction on Anthraquinone Diazonium Compound Derivatized Multi-walled Carbon Nanotube and Graphene Based Electrodes. <i>Electroanalysis</i> , 2017, 29, 548-558.	2.9	15
38	Electrochemical behaviour of ABTS on aryl-modified glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 343-350.	3.8	13
39	Electrochemical Modification of Gold Electrodes with Azobenzene Derivatives by Diazonium Reduction. <i>ChemPhysChem</i> , 2013, 14, 1043-1054.	2.1	13
40	Oxygen Reduction on Catalysts Prepared by Pyrolysis of Electrospun Styrene-Acrylonitrile Copolymer and Multi-walled Carbon Nanotube Composite Fibres. <i>Catalysis Letters</i> , 2018, 148, 1815-1826.	2.6	13
41	Surface and electrochemical characterization of aryl films grafted on polycrystalline copper from the diazonium compounds using the rotating disk electrode method. <i>Journal of Electroanalytical Chemistry</i> , 2018, 817, 89-100.	3.8	11
42	Electrochemical properties of gold and glassy carbon electrodes electrografted with an anthraquinone diazonium compound using the rotating disc electrode method. <i>RSC Advances</i> , 2016, 6, 40982-40990.	3.6	10
43	Polypyrrole and Polythiophene Modified Carbon Nanotube-Based Cathode Catalysts for Anion Exchange Membrane Fuel Cell. <i>ChemElectroChem</i> , 2022, 9, .	3.4	9
44	Semi-specific biosensors for measuring BOD in dairy wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 957-961.	3.2	8
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.	3.4	7
46	Semi-specific <i>Microbacterium phyllosphaerae</i> -based microbial sensor for biochemical oxygen demand measurements in dairy wastewater. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2492-2498.	5.3	6
47	Multi-purpose heterogeneous catalyst material from an amorphous cobalt metal-organic framework. <i>Materials Advances</i> , 2021, 2, 4009-4015.	5.4	6
48	Electrocatalysis of oxygen reduction on glassy carbon electrodes modified with anthraquinone moieties. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1725-1733.	2.5	4
49	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.	3.8	4
50	OH radical degradation of blocking aryl layers on glassy carbon and gold electrodes leads to film thinning on glassy carbon and pinhole films on gold. <i>Electrochemistry Communications</i> , 2013, 29, 33-36.	4.7	3
51	Cobalt-Containing Nitrogen-Doped Carbon Materials Derived from Saccharides as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Catalysts</i> , 2022, 12, 568.	3.5	3