

# Ramesh Kumar Singh

## List of Publications by Year in descending order

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27  
papers

1,084  
citations

430874

18  
h-index

642732

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1533  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Impedance Spectroscopy of Oxygen Reduction Reaction (ORR) in a Rotating Disk Electrode Configuration: Effect of Ionomer Content and Carbon-Support. <i>Journal of the Electrochemical Society</i> , 2015, 162, F489-F498.	2.9	144
2	Electrochemical investigation of urea oxidation reaction on $\text{Ni}(\text{OH})_2$ and $\text{Ni}/\text{Ni}(\text{OH})_2$ . <i>Electrochimica Acta</i> , 2018, 278, 405-411.	5.2	112
3	Oxygen Reduction Reaction and Peroxide Generation on Shape-Controlled and Polycrystalline Platinum Nanoparticles in Acidic and Alkaline Electrolytes. <i>Langmuir</i> , 2014, 30, 8995-9006.	3.5	89
4	Advances in Catalytic Electrooxidation of Urea: A Review. <i>Energy Technology</i> , 2021, 9, 2100017.	3.8	75
5	Electroactivity of NiCr Catalysts for Urea Oxidation in Alkaline Electrolyte. <i>ChemCatChem</i> , 2017, 9, 3374-3379.	3.7	69
6	The role of surface oxygenated-species and adsorbed hydrogen in the oxygen reduction reaction (ORR) mechanism and product selectivity on Pd-based catalysts in acid media. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15146-15155.	2.8	62
7	Synthesis of $\text{CeO}_x$ -Decorated Pd/C Catalysts by Controlled Surface Reactions for Hydrogen Oxidation in Anion Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2002087.	14.9	58
8	Carbide-Supported PtRu Catalysts for Hydrogen Oxidation Reaction in Alkaline Electrolyte. <i>ACS Catalysis</i> , 2021, 11, 932-947.	11.2	56
9	Hydrogen Interaction (Electrosorption and Evolution) Characteristics of Pd and Pd <sub>3</sub> Co Alloy Nanoparticles: An In-situ Investigation with Electrochemical Impedance Spectroscopy. <i>Electrochimica Acta</i> , 2016, 194, 199-210.	5.2	51
10	Effect of oxidative heat-treatment on electrochemical properties and oxygen reduction reaction (ORR) activity of Pd-Co alloy catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2014, 712, 223-229.	3.8	49
11	Stability issues in Pd-based catalysts: the role of surface Pt in improving the stability and oxygen reduction reaction (ORR) activity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13044.	2.8	46
12	An Anion-Exchange Membrane Fuel Cell Containing Only Abundant and Affordable Materials. <i>Energy Technology</i> , 2021, 9, 2000909.	3.8	46
13	Improved Hydrogen Oxidation Reaction Activity and Stability of Buried Metal-Oxide Electrocatalyst Interfaces. <i>Chemistry of Materials</i> , 2020, 32, 7716-7724.	6.7	38
14	Enhanced Urea Activity of Oxidation on Nickel-Deposited Tin Dendrites. <i>ChemElectroChem</i> , 2017, 4, 1037-1043.	3.4	36
15	Reconstruction and dissolution of shape-controlled Pt nanoparticles in acidic electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11220-11232.	2.8	34
16	Reduction of graphene oxide – a comprehensive electrochemical investigation in alkaline and acidic electrolytes. <i>RSC Advances</i> , 2014, 4, 57781-57790.	3.6	29
17	Oxygen Reduction Reaction and Peroxide Generation on Ir, Rh, and their Selenides – A Comparison with Pt and RuSe. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1060.	2.9	28
18	A high-temperature anion-exchange membrane fuel cell with a critical raw material-free cathode. <i>Chemical Engineering Journal Advances</i> , 2021, 8, 100153.	5.2	25

#	ARTICLE	IF	CITATIONS
19	Electrodeposited Ternary Fe-Mo-P as an Efficient Electrode Material for Bifunctional Water Splitting in Neutral pH. <i>Electrocatalysis</i> , 2018, 9, 682-688.	3.0	11
20	Pd-Decorated Tungsten as Pt-Free Bimetallic Catalysts for Hydrogen Oxidation Reaction in Alkaline Electrolyte. <i>Israel Journal of Chemistry</i> , 2020, 60, 563-569.	2.3	8
21	Bioinspired oxygen selective membrane for Zn-air batteries. <i>Journal of Materials Science</i> , 2021, 56, 9382-9394.	3.7	8
22	Metal nanoparticles entrapped in metal matrices. <i>Nanoscale Advances</i> , 2021, 3, 4597-4612.	4.6	7
23	Functionalization of Graphene—A Critical Overview of its Improved Physical, Chemical and Electrochemical Properties. <i>Carbon Nanostructures</i> , 2019, , 139-173.	0.1	3
24	Improving Stability and Kinetics of Alkaline HOR Catalysts — Towards Reduced System Cost. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1686-1686.	0.0	0
25	Heteroatom-Doped Graphites Oxygen Reduction Catalysts for Anion Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 538-538.	0.0	0
26	Characterization of CeO <sub>x</sub> -decorated Pd/C Catalysts Synthesized By Controlled Surface Reactions for Hydrogen Oxidation in Anion Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2110-2110.	0.0	0
27	High-Temperature Anion-Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1209-1209.	0.0	0