Santosh K Singh

List of Publications by Year
in descending order

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35 papers	1,853 citations	361413 20 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	3090 citing authors

#	Article	IF	Citations
1	Active Sites and Mechanism of Oxygen Reduction Reaction Electrocatalysis on Nitrogenâ€Doped Carbon Materials. Advanced Materials, 2019, 31, e1804297.	21.0	459
2	Surface-Tuned Co₃O₄ Nanoparticles Dispersed on Nitrogen-Doped Graphene as an Efficient Cathode Electrocatalyst for Mechanical Rechargeable Zincâ€“Air Battery Application. ACS Applied Materials & Interfaces, 2015, 7, 21138-21149.	8.0	145
3	Low Surface Energy Plane Exposed Co₃O₄Nanocubes Supported on Nitrogen-Doped Graphene as an Electrocatalyst for Efficient Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 442-451.	8.0	108
4	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. Sensors and Actuators B: Chemical, 2018, 262, 180-187.	7.8	108
5	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. ACS Catalysis, 2017, 7, 6700-6710.	11.2	104
6	Nucleic aptamer modified porous reduced graphene oxide/MoS2 based electrodes for viral detection: Application to human papillomavirus (HPV). Sensors and Actuators B: Chemical, 2018, 262, 991-1000.	7.8	82
7	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. Journal of Colloid and Interface Science, 2017, 507, 360-369.	9.4	72
8	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. Applied Materials Today, 2017, 8, 141-149.	4.3	69
9	Role of Pyridinic Nitrogen in the Mechanism of the Oxygen Reduction Reaction on Carbon Electrocatalysts. Angewandte Chemie - International Edition, 2021, 60, 5121-5124.	13.8	61
10	Nanocrystalline Feâ€“Fe₂O₃ particle-deposited N-doped graphene as an activity-modulated Pt-free electrocatalyst for oxygen reduction reaction. Nanoscale, 2015, 7, 20117-20125.	5.6	58
11	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. ACS Sensors, 2016, 1, 1462-1470.	7.8	57
12	Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. Electrochimica Acta, 2017, 224, 346-354.	5.2	53
13	Strategic Preparation of Efficient and Durable NiCo Alloy Supported Nâ€Doped Porous Graphene as an Oxygen Evolution Electrocatalyst: A Theoretical and Experimental Investigation. Advanced Materials Interfaces, 2016, 3, 1600532.	3.7	50
14	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. Light: Science and Applications, 2018, 7, 47.	16.6	50
15	Switching Closed-Shell to Open-Shell Phenalenyl: Toward Designing Electroactive Materials. Journal of the American Chemical Society, 2015, 137, 5955-5960.	13.7	47
16	Cobalt Ferrite Bearing Nitrogen-Doped Reduced Graphene Oxide Layers Spatially Separated with Microporous Carbon as Efficient Oxygen Reduction Electrocatalyst. ACS Applied Materials & Interfaces, 2016, 8, 20730-20740.	8.0	41
17	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. Analytical and Bioanalytical Chemistry, 2019, 411, 1509-1516.	3.7	39
18	Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO₂ Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. ACS Omega, 2019, 4, 13465-13473.	3.5	33

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19	Versatile nanoarchitectonics of Pt with morphology control of oxygen reduction reaction catalysts. Science and Technology of Advanced Materials, 2022, 23, 413-423.	6.1	28
20	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. Journal of Materials Chemistry B, 2017, 5, 8133-8142.	5.8	23
21	A NiFe layered double hydroxide-decorated N-doped entangled-graphene framework: a robust water oxidation electrocatalyst. Nanoscale Advances, 2020, 2, 1709-1717.	4.6	21
22	10000-Fold Enhancement in Proton Conduction by Doping of Cesium Ions in a Proton-Conducting Zwitterionic Metal-Organic Framework. European Journal of Inorganic Chemistry, 2016, 2016, 4382-4386.	2.0	20
23	Coordination polymers of Fe(<scp>iii</scp>) and Al(<scp>iii</scp>) ions with TCA ligand: distinctive fluorescence, CO₂uptake, redox-activity and oxygen evolution reaction. Dalton Transactions, 2016, 45, 6901-6908.	3.3	17
24	Pb²⁺â€"N Bonding Chemistry: Recycling of Polyanilineâ€"Pb Nanocrystals Waste for Generating High-Performance Supercapacitor Electrodes. Journal of Physical Chemistry C, 2016, 120, 911-918.	3.1	16
25	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. Electrochimica Acta, 2017, 254, 375-383.	5.2	15
26	Zincâ€"Air Batteries Catalyzed Using Co₃O₄ Nanorod-Supported N-Doped Entangled Graphene for Oxygen Reduction Reaction. ACS Applied Energy Materials, 2021, 4, 4570-4580.	5.1	14
27	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes. Journal of Materials Chemistry B, 2017, 5, 6557-6565.	5.8	13
28	A pseudo-boehmite AlOOH supported NGr composite-based air electrode for mechanically rechargeable Zn-air battery applications. Journal of Materials Chemistry A, 2022, 10, 10014-10025.	10.3	11
29	CoOx electro-catalysts anchored on nitrogen-doped carbon nanotubes for the oxygen evolution reaction. Sustainable Energy and Fuels, 2021, 5, 820-827.	4.9	10
30	Role of Pyridinic Nitrogen in the Mechanism of the Oxygen Reduction Reaction on Carbon Electrocatalysts. Angewandte Chemie, 2021, 133, 5181-5184.	2.0	9
31	Activity Tuning of Cobalt Ferrite Nanoparticles Anchored on Nâ€Doped Reduced Graphene Oxide as a Potential Oxygen Reduction Electrocatalyst by Zn Substitution in the Spinel Matrix. ChemistrySelect, 2017, 2, 7845-7853.	1.5	7
32	Substituentâ€Induced Deformed Niâ€"Porphyrin as an Electrocatalyst for the Electrochemical Conversion of Water into Dioxygen. European Journal of Inorganic Chemistry, 2018, 2018, 1549-1555.	2.0	5
33	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. Electrochimica Acta, 2018, 266, 364-372.	5.2	5
34	Airâ€"Cathode Interface-Engineered Electrocatalyst for Solid-State Rechargeable Zincâ€"Air Batteries. ACS Applied Energy Materials, 2022, 5, 8756-8768.	5.1	3
35	Positive Effect of Induced Hydrophobicity in 3D N-Doped Porous Graphene Towards ORR Activity Under Acidic Condition. ECS Meeting Abstracts, 2019, , .	0.0	0