Samarjeet Siwal

List of Publications by Year
in descending order

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52 papers	1,647 citations	257450 24 h-index	315739 38 g-index
52 all docs	52 docs citations	52 times ranked	1465 citing authors

#	Article	IF	Citations
1	Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. Polymers, 2020, 12, 505.	4.5	144
2	Energy production from steam gasification processes and parameters that contemplate in biomass gasifier â€“ A review. Bioresource Technology, 2020, 297, 122481.	9.6	93
3	Recovery processes of sustainable energy using different biomass and wastes. Renewable and Sustainable Energy Reviews, 2021, 150, 111483.	16.4	93
4	Electrocatalysts for electrooxidation of direct alcohol fuel cell: chemistry and applications. Materials Today Chemistry, 2019, 14, 100182.	3.5	83
5	Recent progress of precious-metal-free electrocatalysts for efficient water oxidation in acidic media. Journal of Energy Chemistry, 2020, 51, 113-133.	12.9	66
6	Galvanic Replacementâ€“Mediated Synthesis of Niâ€Supported Pd Nanoparticles with Strong Metalâ€“Support Interaction for Methanol Electroâ€oxidation. Small, 2019, 15, e1804722.	10.0	65
7	Carbon nitride supported palladium nanoparticles: An active system for the reduction of aromatic nitro-compounds. Applied Catalysis A: General, 2016, 523, 31-38.	4.3	63
8	Efficient hydrogen production via urea electrolysis with cobalt doped nickel hydroxide-riched hybrid films: Cobalt doping effect and mechanism aspect. Journal of Catalysis, 2020, 381, 454-461.	6.2	62
9	Graphitic Carbon Nitride Doped Copperâ€“Manganese Alloy as Highâ€“Performance Electrode Material in Supercapacitor for Energy Storage. Nanomaterials, 2020, 10, 2.	4.1	59
10	Organicâ€“Inorganic Hybrid Supramolecular Assembly: An Efficient Platform for Nonenzymatic Glucose Sensor. ACS Sustainable Chemistry and Engineering, 2014, 2, 2852-2858.	6.7	57
11	Defect engineering of cobalt microspheres by S doping and electrochemical oxidation as efficient bifunctional and durable electrocatalysts for water splitting at high current densities. Journal of Power Sources, 2019, 436, 226887.	7.8	48
12	Palladium-polymer nanocomposite: An anode catalyst for the electrochemical oxidation of methanol. International Journal of Hydrogen Energy, 2017, 42, 23599-23605.	7.1	47
13	Polymer immobilized Cu(I) formation and azide-alkyne cycloaddition: A one potreaction. Scientific Reports, 2015, 5, 9632.	3.3	44
14	Key ingredients and recycling strategy of personal protective equipment (PPE): Towards sustainable solution for the COVID-19 like pandemics. Journal of Environmental Chemical Engineering, 2021, 9, 106284.	6.7	44
15	Recent advances of carbon-based nanomaterials (CBNMs) for wastewater treatment: Synthesis and application. Chemosphere, 2022, 299, 134364.	8.2	37
16	Recent advancements in transparent carbon nanotube films: chemistry and imminent challenges. Journal of Nanostructure in Chemistry, 2021, 11, 93-130.	9.1	35
17	Recent advances in electrochemical-based sensors amplified with carbon-based nanomaterials (CNMs) for sensing pharmaceutical and food pollutants. Chemosphere, 2022, 304, 135182.	8.2	35
18	Novel synthesis methods and applications of MXene-based nanomaterials (MBNs) for hazardous pollutants degradation: Future perspectives. Chemosphere, 2022, 293, 133542.	8.2	34

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19	Single step synthesis of a polymer supported palladium composite: a potential anode catalyst for the application of methanol oxidation. RSC Advances, 2016, 6, 47212-47219.	3.6	29
20	Light effect on Click reaction: Role of photonic quantum dot catalyst. Scientific Reports, 2016, 6, 33025.	3.3	29
21	Gold nanoparticle within the polymer chain, a multi-functional composite material, for the electrochemical detection of dopamine and the hydrogen atom-mediated reduction of Rhodamine-B, a mechanistic approach. Journal of Materials Science, 2017, 52, 770-781.	3.7	28
22	Advanced thermochemical conversion technologies used for energy generation: Advancement and prospects. Fuel, 2022, 321, 124107.	6.4	27
23	A carbon nitride supported copper nanoparticle composite: a heterogeneous catalyst for the N-arylation of hetero-aromatic compounds. New Journal of Chemistry, 2017, 41, 3082-3088.	2.8	26
24	Carbon nitride supported copper nanoparticles: light-induced electronic effect of the support for triazole synthesis. Royal Society Open Science, 2016, 3, 160580.	2.4	25
25	Synthesis and overview of carbon-based materials for high performance energy storage application: A review. Materials Today: Proceedings, 2022, 56, 9-17.	1.8	25
26	Polymer stabilized silver nanoparticle: An efficient catalyst for proton-coupled electron transfer reaction and the electrochemical recognition of biomolecule. Chemical Physics Letters, 2014, 608, 145-151.	2.6	22
27	Morphological and electronic modification of 3D porous nickel microsphere arrays by cobalt and sulfur dual synergistic modulation for overall water splitting electrolysis and supercapacitors. Applied Surface Science, 2019, 491, 570-578.	6.1	22
28	Recent advances in bio-electrochemical system analysis in biorefineries. Journal of Environmental Chemical Engineering, 2021, 9, 105982.	6.7	22
29	Solvothermal sulfurization in a deep eutectic solvent: a novel route to synthesize Co-doped Ni₃S₂ nanosheets supported on Ni foam as active materials for ultrahigh-performance pseudocapacitors. Sustainable Energy and Fuels, 2019, 3, 1957-1965.	4.9	20
30	Air Pollutants Removal Using Biofiltration Technique: A Challenge at the Frontiers of Sustainable Environment. ACS Engineering Au, 2022, 2, 378-396.	5.1	20
31	Charge storage ability of the gold nanoparticles: Towards the performance of a supercapacitor. Applied Surface Science, 2017, 424, 151-156.	6.1	16
32	Mono Arylation of Imidazo[1,2-a]pyridine and 1,2-dimethyl Imidazole: Application of Carbon Nitride Supported Palladium Catalyst. ChemistrySelect, 2017, 2, 1747-1752.	1.5	15
33	A palladium nanoparticle-catalyzed arylâ€“amine coupling reaction: high performance of aryl and pyridyl chlorides as the coupling partner. New Journal of Chemistry, 2018, 42, 812-816.	2.8	15
34	Promotional role of gold in electrochemical methanol oxidation. Journal of Lithic Studies, 2019, 5, 1-9.	0.5	15
35	Single step synthesis of a â€˜silverâ€“polymer hybrid materialâ€™ and its catalytic application. RSC Advances, 2015, 5, 58625-58632.	3.6	14
36	Catalytic performance of the in situ synthesized palladiumâ€“polymer nanocomposite. New Journal of Chemistry, 2016, 40, 2296-2303.	2.8	14

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37	Synergistic effect of graphene oxide on the methanol oxidation for fuel cell application. Materials Research Express, 2017, 4, 095306.	1.6	14
38	Dynamic structure evolution of free-standing S-doped porous Co-Fe microspheres with enhanced oxygen evolution electrocatalysis in alkaline media. Electrochimica Acta, 2020, 361, 137038.	5.2	14
39	Compositional and morphological engineering of in-situâ€grown Ag nanoparticles on Cu substrate for enhancing oxygen reduction reaction activity: A novel electrochemical redox tuning approach. Journal of Colloid and Interface Science, 2020, 571, 1-12.	9.4	14
40	Multifunctional performance of nanocrystalline tin oxide. Journal of Alloys and Compounds, 2017, 723, 201-207.	5.5	13
41	Graphitic carbon nitride based palladium nanoparticles: A homemade anode electrode catalyst for efficient direct methanol fuel cells application. Materials Today: Proceedings, 2022, 56, 107-111.	1.8	12
42	Role of Silver Nanoparticle-Doped 2-Aminodiphenylamine Polymeric Material in the Detection of Dopamine (DA) with Uric Acid Interference. Materials, 2022, 15, 1308.	2.9	11
43	Recent advancements in graphdiyne-based nano-materials for biomedical applications. Materials Today: Proceedings, 2022, 56, 112-120.	1.8	11
44	Single step synthesis of goldâ€“amino acid composite, with the evidence of the catalytic hydrogen atom transfer (HAT) reaction, for the electrochemical recognition of Serotonin. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 77, 72-80.	2.7	10
45	The influencing role of oxophilicity and surface area of the catalyst for electrochemical methanol oxidation reaction: a case study. Materials Research Innovations, 2019, 23, 440-447.	2.3	10
46	Recent Progress in Carbon Dotsâ€Based Materials for Electrochemical Energy Storage Toward Environmental Sustainability. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	9
47	Polymerâ€supported palladium: A hybrid system for multifunctional catalytic application. Applied Organometallic Chemistry, 2018, 32, e3898.	3.5	8
48	Antimicrobial Materials: New Strategies to Tackle Various Pandemics. Journal of Renewable Materials, 2020, 8, 1543-1563.	2.2	8
49	Recognition of biomolecules using gold-polymer composites: metal nanoparticles play the role of the catalyst. Journal of Materials Science, 2015, 50, 6087-6095.	3.7	7
50	Recent Advancements in the Technologies Detecting Food Spoiling Agents. Journal of Functional Biomaterials, 2021, 12, 67.	4.4	7
51	Silver-polymer functional-nanocomposite: A single step synthesis approach with in-situ optical study. Applied Surface Science, 2017, 412, 482-488.	6.1	5
52	Classification and application of redox-active polymer materials for energy storage nanoarchitectonics. , 2022, , 91-113.		1