

Samarjeet Siwal

List of Publications by Year in descending order

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Version: 2024-02-01

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	Synthesis and overview of carbon-based materials for high performance energy storage application: A review. <i>Materials Today: Proceedings</i> , 2022, 56, 9-17.	1.8	25
2	Novel synthesis methods and applications of MXene-based nanomaterials (MBNs) for hazardous pollutants degradation: Future perspectives. <i>Chemosphere</i> , 2022, 293, 133542.	8.2	34
3	Graphitic carbon nitride based palladium nanoparticles: A homemade anode electrode catalyst for efficient direct methanol fuel cells application. <i>Materials Today: Proceedings</i> , 2022, 56, 107-111.	1.8	12
4	Role of Silver Nanoparticle-Doped 2-Aminodiphenylamine Polymeric Material in the Detection of Dopamine (DA) with Uric Acid Interference. <i>Materials</i> , 2022, 15, 1308.	2.9	11
5	Recent advances of carbon-based nanomaterials (CBNMs) for wastewater treatment: Synthesis and application. <i>Chemosphere</i> , 2022, 299, 134364.	8.2	37
6	Advanced thermochemical conversion technologies used for energy generation: Advancement and prospects. <i>Fuel</i> , 2022, 321, 124107.	6.4	27
7	Recent advancements in graphdiyne-based nano-materials for biomedical applications. <i>Materials Today: Proceedings</i> , 2022, 56, 112-120.	1.8	11
8	Recent advances in electrochemical-based sensors amplified with carbon-based nanomaterials (CNMs) for sensing pharmaceutical and food pollutants. <i>Chemosphere</i> , 2022, 304, 135182.	8.2	35
9	Air Pollutants Removal Using Biofiltration Technique: A Challenge at the Frontiers of Sustainable Environment. <i>ACS Engineering Au</i> , 2022, 2, 378-396.	5.1	20
10	Classification and application of redox-active polymer materials for energy storage nanoarchitectonics. , 2022, , 91-113.		1
11	Recent Progress in Carbon Dots-Based Materials for Electrochemical Energy Storage Toward Environmental Sustainability. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	9
12	Recent advancements in transparent carbon nanotube films: chemistry and imminent challenges. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 93-130.	9.1	35
13	Recovery processes of sustainable energy using different biomass and wastes. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111483.	16.4	93
14	Recent advances in bio-electrochemical system analysis in biorefineries. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105982.	6.7	22
15	Key ingredients and recycling strategy of personal protective equipment (PPE): Towards sustainable solution for the COVID-19 like pandemics. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106284.	6.7	44
16	Recent Advancements in the Technologies Detecting Food Spoiling Agents. <i>Journal of Functional Biomaterials</i> , 2021, 12, 67.	4.4	7
17	Graphitic Carbon Nitride Doped Copper-Manganese Alloy as High-Performance Electrode Material in Supercapacitor for Energy Storage. <i>Nanomaterials</i> , 2020, 10, 2.	4.1	59
18	Efficient hydrogen production via urea electrolysis with cobalt doped nickel hydroxide-riched hybrid films: Cobalt doping effect and mechanism aspect. <i>Journal of Catalysis</i> , 2020, 381, 454-461.	6.2	62

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19	Energy production from steam gasification processes and parameters that contemplate in biomass gasifier – A review. <i>Bioresource Technology</i> , 2020, 297, 122481.	9.6	93
20	Dynamic structure evolution of free-standing S-doped porous Co-Fe microspheres with enhanced oxygen evolution electrocatalysis in alkaline media. <i>Electrochimica Acta</i> , 2020, 361, 137038.	5.2	14
21	Compositional and morphological engineering of in-situ-grown Ag nanoparticles on Cu substrate for enhancing oxygen reduction reaction activity: A novel electrochemical redox tuning approach. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 1-12.	9.4	14
22	Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. <i>Polymers</i> , 2020, 12, 505.	4.5	144
23	Recent progress of precious-metal-free electrocatalysts for efficient water oxidation in acidic media. <i>Journal of Energy Chemistry</i> , 2020, 51, 113-133.	12.9	66
24	Antimicrobial Materials: New Strategies to Tackle Various Pandemics. <i>Journal of Renewable Materials</i> , 2020, 8, 1543-1563.	2.2	8
25	Defect engineering of cobalt microspheres by S doping and electrochemical oxidation as efficient bifunctional and durable electrocatalysts for water splitting at high current densities. <i>Journal of Power Sources</i> , 2019, 436, 226887.	7.8	48
26	Electrocatalysts for electrooxidation of direct alcohol fuel cell: chemistry and applications. <i>Materials Today Chemistry</i> , 2019, 14, 100182.	3.5	83
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. <i>Applied Surface Science</i> , 2019, 491, 570-578.	6.1	22
28	Solvothermal sulfurization in a deep eutectic solvent: a novel route to synthesize Co-doped Ni ₃ S ₂ nanosheets supported on Ni foam as active materials for ultrahigh-performance pseudocapacitors. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1957-1965.	4.9	20
29	Promotional role of gold in electrochemical methanol oxidation. <i>Journal of Lithic Studies</i> , 2019, 5, 1-9.	0.5	15
30	Galvanic Replacement-Mediated Synthesis of Ni-Supported Pd Nanoparticles with Strong Metal-Support Interaction for Methanol Electrooxidation. <i>Small</i> , 2019, 15, e1804722.	10.0	65
31	The influencing role of oxophilicity and surface area of the catalyst for electrochemical methanol oxidation reaction: a case study. <i>Materials Research Innovations</i> , 2019, 23, 440-447.	2.3	10
32	Polymer-supported palladium: A hybrid system for multifunctional catalytic application. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3898.	3.5	8
33	A palladium nanoparticle-catalyzed aryl-amine coupling reaction: high performance of aryl and pyridyl chlorides as the coupling partner. <i>New Journal of Chemistry</i> , 2018, 42, 812-816.	2.8	15
34	Charge storage ability of the gold nanoparticles: Towards the performance of a supercapacitor. <i>Applied Surface Science</i> , 2017, 424, 151-156.	6.1	16
35	A carbon nitride supported copper nanoparticle composite: a heterogeneous catalyst for the N-arylation of hetero-aromatic compounds. <i>New Journal of Chemistry</i> , 2017, 41, 3082-3088.	2.8	26
36	Mono Arylation of Imidazo[1,2-a]pyridine and 1,2-dimethyl Imidazole: Application of Carbon Nitride Supported Palladium Catalyst. <i>ChemistrySelect</i> , 2017, 2, 1747-1752.	1.5	15

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37	Silver-polymer functional-nanocomposite: A single step synthesis approach with in-situ optical study. <i>Applied Surface Science</i> , 2017, 412, 482-488.	6.1	5
38	Palladium-polymer nanocomposite: An anode catalyst for the electrochemical oxidation of methanol. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23599-23605.	7.1	47
39	Synergistic effect of graphene oxide on the methanol oxidation for fuel cell application. <i>Materials Research Express</i> , 2017, 4, 095306.	1.6	14
40	Multifunctional performance of nanocrystalline tin oxide. <i>Journal of Alloys and Compounds</i> , 2017, 723, 201-207.	5.5	13
41	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. <i>Journal of Materials Science</i> , 2017, 52, 770-781.	3.7	28
42	Carbon nitride supported copper nanoparticles: light-induced electronic effect of the support for triazole synthesis. <i>Royal Society Open Science</i> , 2016, 3, 160580.	2.4	25
43	Carbon nitride supported palladium nanoparticles: An active system for the reduction of aromatic nitro-compounds. <i>Applied Catalysis A: General</i> , 2016, 523, 31-38.	4.3	63
44	Single step synthesis of a polymer supported palladium composite: a potential anode catalyst for the application of methanol oxidation. <i>RSC Advances</i> , 2016, 6, 47212-47219.	3.6	29
45	Light effect on Click reaction: Role of photonic quantum dot catalyst. <i>Scientific Reports</i> , 2016, 6, 33025.	3.3	29
46	Catalytic performance of the in situ synthesized palladium-polymer nanocomposite. <i>New Journal of Chemistry</i> , 2016, 40, 2296-2303.	2.8	14
47	Single step synthesis of gold-amino acid composite, with the evidence of the catalytic hydrogen atom transfer (HAT) reaction, for the electrochemical recognition of Serotonin. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 77, 72-80.	2.7	10
48	Polymer immobilized Cu(I) formation and azide-alkyne cycloaddition: A one pot reaction. <i>Scientific Reports</i> , 2015, 5, 9632.	3.3	44
49	Recognition of biomolecules using gold-polymer composites: metal nanoparticles play the role of the catalyst. <i>Journal of Materials Science</i> , 2015, 50, 6087-6095.	3.7	7
50	Single step synthesis of a silver-polymer hybrid material™ and its catalytic application. <i>RSC Advances</i> , 2015, 5, 58625-58632.	3.6	14
51	Organic-Inorganic Hybrid Supramolecular Assembly: An Efficient Platform for Nonenzymatic Glucose Sensor. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2852-2858.	6.7	57
52	Polymer stabilized silver nanoparticle: An efficient catalyst for proton-coupled electron transfer reaction and the electrochemical recognition of biomolecule. <i>Chemical Physics Letters</i> , 2014, 608, 145-151.	2.6	22