

Satyanarayana Moru

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,270
citations

361045

20
h-index

395343

33
g-index

40
all docs

40
docs citations

40
times ranked

1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Structurally engineered vitamin B12 on graphene as a bioinspired metalâ€“Nâ€“C-based electrocatalyst for effective overall water splitting in alkaline media. Applied Surface Science, 2022, 575, 151729.	3.1	9
2	Magnetically sensitive TiO2 hollow sphere/Fe3O4 core-shell hybrid catalyst for high-performance sunlight-assisted photocatalytic degradation of aqueous antibiotic pollutants. Journal of Alloys and Compounds, 2022, 902, 163612.	2.8	20
3	Metal- and non-metal-incorporated vitamin B12 on graphene as a bio-derived electrocatalyst for the high-performance oxygen reduction reaction in acidic media. Journal of Alloys and Compounds, 2022, 912, 165118.	2.8	4
4	<i>In Planta</i> Nitrate Sensor Using a Photosensitive Epoxy Bioresin. ACS Applied Materials & Interfaces, 2022, 14, 25949-25961.	4.0	7
5	Cuâ€“Ni coreâ€“shell bimetallic cocatalyst decorated polymeric carbon nitride for highly efficient and selective methane production from photocatalytic CO2 reduction. Applied Surface Science, 2022, 599, 153973.	3.1	14
6	Porous g-C3N4-encapsulated TiO2 hollow sphere as a high-performance Z-scheme hybrid for solar-induced photocatalytic abatement of environmentally toxic pharmaceuticals. Journal of Materials Science and Technology, 2021, 82, 21-32.	5.6	28
7	Electrochemical lithium and sodium insertion studies in 3D metal oxy-phosphate framework MoWO3(PO4)2 for battery applications. Journal of Solid State Electrochemistry, 2021, 25, 2675.	1.2	0
8	Highly-configured TiO2 hollow spheres adorned with N-doped carbon dots as a high-performance photocatalyst for solar-induced CO2 reduction to methane. Applied Surface Science, 2021, 563, 150292.	3.1	21
9	Metal oxide-metal nanocomposite-modified electrochemical sensors for toxic chemicals. , 2021, , 79-137.		2
10	One-pot synthesis of Pd20-xAux nanoparticles embedded in nitrogen doped graphene as high-performance electrocatalyst toward methanol oxidation. International Journal of Hydrogen Energy, 2020, 45, 1018-1029.	3.8	14
11	Magnetically responsive SnFe2O4/g-C3N4 hybrid photocatalysts with remarkable visible-light-induced performance for degradation of environmentally hazardous substances and sustainable hydrogen production. Applied Surface Science, 2020, 506, 144939.	3.1	32
12	A review on recent developments in optical and electrochemical aptamer-based assays for mycotoxins using advanced nanomaterials. Mikrochimica Acta, 2020, 187, 29.	2.5	97
13	Cobalt- and iron-coordinated graphitic carbon nitride on reduced graphene oxide: A nonprecious bimetallic Mâ€“N â€“C analogue electrocatalyst for efficient oxygen reduction reaction in acidic media. Applied Surface Science, 2020, 531, 147367.	3.1	32
14	Wearable Sensors for On-Leaf Monitoring of Volatile Organic Compounds Emissions from Plants. , 2020, , .		2
15	Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. Advanced Science, 2020, 7, 1902980.	5.6	54
16	A green approach to the fabrication of a TiO₂/NiAl-LDH coreâ€“shell hybrid photocatalyst for efficient and selective solar-powered reduction of CO₂ into value-added fuels. Journal of Materials Chemistry A, 2020, 8, 8020-8032.	5.2	65
17	A Biochemical Sensor with Artificial 3D Enzyme Network. , 2020, , .		1
18	Capturing subtle changes during plant growth using wearable mechanical sensors fabricated through liquid-phase fusion. , 2020, , .		2

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19	Continuous Monitoring of Soil Nitrate Using a Miniature Sensor with Poly(3-octyl-thiophene) and Molybdenum Disulfide Nanocomposite. ACS Applied Materials & Interfaces, 2019, 11, 29195-29206.	4.0	66
20	Cobalt-Coordinated Sulfur-Doped Graphitic Carbon Nitride on Reduced Graphene Oxide: An Efficient Metal- (N,S)-C-Class Bifunctional Electrocatalyst for Overall Water Splitting in Alkaline Media. ACS Sustainable Chemistry and Engineering, 2019, 7, 15373-15384.	3.2	57
21	Direct electrochemical determination of methotrexate using functionalized carbon nanotube paste electrode as biosensor for in-vitro analysis of urine and dilute serum samples. Microchemical Journal, 2019, 148, 626-633.	2.3	28
22	Nanomaterial-based electrochemical sensors in pharmaceutical applications. , 2019, , 195-216.		8
23	Silver nanoparticles impregnated chitosan layered carbon nanotube as sensor interface for electrochemical detection of clopidogrel in-vitro. Materials Science and Engineering C, 2019, 101, 103-110.	3.8	30
24	Photocatalytic Activity Suppression of Ag ₃ PO ₄ -Deposited Cu ₂ O Octahedra and Rhombic Dodecahedra. Journal of Physical Chemistry C, 2019, 123, 2314-2320.	1.5	21
25	Pd nanoparticles-embedded carbon nanotube interface for electrocatalytic oxidation of methanol toward DMFC applications. Clean Technologies and Environmental Policy, 2018, 20, 759-768.	2.1	10
26	Electrocatalytic Activity of Pd ₂₀ -Ag Nanoparticles Embedded in Carbon Nanotubes for Methanol Oxidation in Alkaline Media. ACS Applied Energy Materials, 2018, 1, 3763-3770.	2.5	39
27	Stimulus responsive hydrogel-coated etched fiber Bragg grating for carcinogenic chromium (VI) sensing. Optical Engineering, 2018, 57, 1.	0.5	14
28	Conducting Polymer-Layered Carbon Nanotube as Sensor Interface for Electrochemical Detection of Dacarbazine In-Vitro. Electrocatalysis, 2017, 8, 214-223.	1.5	11
29	Carbon nanotube ensembled hybrid nanocomposite electrode for direct electrochemical detection of epinephrine in pharmaceutical tablets and urine. Materials Science and Engineering C, 2017, 79, 93-99.	3.8	61
30	An electrochemical aptasensor based on functionalized graphene oxide assisted electrocatalytic signal amplification of methylene blue for aflatoxin B1 detection. Electrochimica Acta, 2017, 244, 96-103.	2.6	123
31	Detection of trace amounts of chromium(VI) using hydrogel coated Fiber Bragg grating. Sensors and Actuators B: Chemical, 2017, 243, 626-633.	4.0	51
32	Aptamer-based zearalenone assay based on the use of a fluorescein label and a functional graphene oxide as a quencher. Mikrochimica Acta, 2017, 184, 4401-4408.	2.5	59
33	Development of highly selective electrochemical impedance sensor for detection of sub-micromolar concentrations of 5-Chloro-2,4-dinitrotoluene. Journal of Chemical Sciences, 2016, 128, 763-770.	0.7	10
34	Hydrogel coated fiber Bragg grating based chromium sensor. , 2016, , .		2
35	Biopolymer protected silver nanoparticles on the support of carbon nanotube as interface for electrocatalytic applications. AIP Conference Proceedings, 2016, , .	0.3	1
36	Synthesis, structural and electrochemical study of $\text{NaNi}_{0.4}\text{Mn}_{0.4}\text{Co}_{0.2}\text{O}_{2}$ as a cathode material for Na-ion batteries. RSC Advances, 2016, 6, 61334-61340.		8

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37	Disposable and portable electrochemical aptasensor for label free detection of aflatoxin B1 in alcoholic beverages. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 466-473.	4.0	114
38	Biopolymer Stabilized Nanogold Particles on Carbon Nanotube Support as Sensing Platform for Electrochemical Detection of 5-Fluorouracil in-vitro. <i>Electrochimica Acta</i> , 2015, 178, 608-616.	2.6	55
39	Nanobiocomposite Based Electrochemical Sensor for Sensitive Determination of Serotonin in Presence of Dopamine, Ascorbic Acid and Uric Acid In Vitro. <i>Electroanalysis</i> , 2014, 26, 2365-2372.	1.5	58
40	Multiwall carbon nanotube ensembled biopolymer electrode for selective determination of isoniazid in vitro. <i>Analytical Methods</i> , 2014, 6, 3772-3778.	1.3	40