

Chaiti Ray

List of Publications by Year in descending order

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35
papers

2,408
citations

201385

27
h-index

344852

36
g-index

36
all docs

36
docs citations

36
times ranked

4585
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticle Decorated Reduced Graphene Oxide (rGO) Nanosheet: A Platform for SERS Based Low-Level Detection of Uranyl Ion. ACS Applied Materials & Interfaces, 2013, 5, 8724-8732.	4.0	256
2	Conceptual design of three-dimensional CoN/Ni ₃ N-coupled nanograsses integrated on N-doped carbon to serve as efficient and robust water splitting electrocatalysts. Journal of Materials Chemistry A, 2018, 6, 4466-4476.	5.2	143
3	A Gel-Based Approach To Design Hierarchical CuS Decorated Reduced Graphene Oxide Nanosheets for Enhanced Peroxidase-like Activity Leading to Colorimetric Detection of Dopamine. Journal of Physical Chemistry C, 2015, 119, 23790-23800.	1.5	124
4	Amorphous Phosphorus-Incorporated Cobalt Molybdenum Sulfide on Carbon Cloth: An Efficient and Stable Electrocatalyst for Enhanced Overall Water Splitting over Entire pH Values. ACS Applied Materials & Interfaces, 2017, 9, 37739-37749.	4.0	122
5	Stacked Porous Iron-Doped Nickel Cobalt Phosphide Nanoparticle: An Efficient and Stable Water Splitting Electrocatalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 6146-6156.	3.2	113
6	Intrinsic peroxidase-like activity of mesoporous nickel oxide for selective cysteine sensing. Journal of Materials Chemistry B, 2014, 2, 6097.	2.9	105
7	Controllable sulfuration engineered NiO nanosheets with enhanced capacitance for high rate supercapacitors. Journal of Materials Chemistry A, 2017, 5, 4543-4549.	5.2	105
8	Mesoporous Gold and Palladium Nanoleaves from Liquid-Liquid Interface: Enhanced Catalytic Activity of the Palladium Analogue toward Hydrazine-Assisted Room-Temperature 4-Nitrophenol Reduction. ACS Applied Materials & Interfaces, 2014, 6, 9134-9143.	4.0	85
9	Au@Pd core-shell nanoparticles-decorated reduced graphene oxide: a highly sensitive and selective platform for electrochemical detection of hydrazine. RSC Advances, 2015, 5, 51690-51700.	1.7	71
10	Cobalt carbonate hydroxides as advanced battery-type materials for supercapacitors: Influence of morphology on performance. Electrochimica Acta, 2018, 259, 1037-1044.	2.6	70
11	Multicolor emissive carbon dot with solvatochromic behavior across the entire visible spectrum. Carbon, 2020, 156, 110-118.	5.4	64
12	Direct growth of WO ₃ nanostructures on multi-walled carbon nanotubes for high-performance flexible all-solid-state asymmetric supercapacitor. Electrochimica Acta, 2019, 308, 231-242.	2.6	63
13	Facile approach to synthesize highly fluorescent multicolor emissive carbon dots via surface functionalization for cellular imaging. Journal of Colloid and Interface Science, 2018, 513, 505-514.	5.0	62
14	Fabrication of dog-bone shaped Au NR _{core} @Pt/Pd _{shell} trimetallic nanoparticle-decorated reduced graphene oxide nanosheets for excellent electrocatalysis. Journal of Materials Chemistry A, 2016, 4, 3765-3776.	5.2	60
15	Suitable Morphology Makes CoSn(OH) ₆ Nanostructure a Superior Electrochemical Pseudocapacitor. ACS Applied Materials & Interfaces, 2016, 8, 17987-17998.	4.0	58
16	Facile Synthesis of Unique Hexagonal Nanoplates of Zn/Co Hydroxy Sulfate for Efficient Electrocatalytic Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 8134-8141.	4.0	53
17	3D yolk-shell NiGa ₂ S ₄ microspheres confined with nanosheets for high performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 6292-6298.	5.2	52
18	Facile Synthesis of Bimetallic Au-Pt, Pd-Pt, and Au-Pd Nanostructures: Enhanced Catalytic Performance of Pd-Pt Analogue towards Fuel Cell Application and Electrochemical Sensing. Electrochimica Acta, 2015, 180, 1075-1084.	2.6	51

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19	A new stable Pd-Mn ₃ O ₄ nanocomposite as an efficient electrocatalyst for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2016, 52, 6095-6098.	2.2	43
20	A facile synthesis of 1D nano structured selenium and Au decorated nano selenium: catalysts for the clock reaction. <i>RSC Advances</i> , 2013, 3, 24313.	1.7	42
21	Hierarchical growth of ZnFe ₂ O ₄ for sensing applications. <i>New Journal of Chemistry</i> , 2016, 40, 1861-1871.	1.4	38
22	Enhanced Catalytic Activity of Ag/Rh Bimetallic Nanomaterial: Evidence of an Ensemble Effect. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5457-5467.	1.5	37
23	Decoration of Fe ₃ O ₄ Base Material with Pd Loaded CdS Nanoparticle for Superior Photocatalytic Efficiency. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11485-11494.	1.5	36
24	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. <i>RSC Advances</i> , 2013, 3, 21475.	1.7	34
25	Soft template induced phase selective synthesis of Fe ₂ O ₃ nanomagnets: one step towards peroxidase-mimic activity allowing colorimetric sensing of thioglycolic acid. <i>RSC Advances</i> , 2016, 6, 32308-32318.	1.7	34
26	Redox mediated synthesis of hierarchical Bi ₂ O ₃ /MnO ₂ nanoflowers: a non-enzymatic hydrogen peroxide electrochemical sensor. <i>Dalton Transactions</i> , 2016, 45, 4780-4790.	1.6	28
27	Redox-Mediated Synthesis of a Fe ₃ O ₄ -MnO ₂ Nanocomposite for Dye Adsorption and Pseudocapacitance. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1571-1580.	1.7	27
28	A two-component hydrogelator from citrazinic acid and melamine: synthesis, intriguing role of reaction parameters and iodine adsorption study. <i>CrystEngComm</i> , 2015, 17, 8119-8129.	1.3	26
29	Fabrication of Nitrogen-Doped Mesoporous Carbon-Coated Palladium Nanoparticles: An Intriguing Electrocatalyst for Methanol and Formic Acid Oxidation. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1588-1596.	1.7	25
30	Facile synthesis of pyridine intercalated ultra-long V ₂ O ₅ nanowire from commercial V ₂ O ₅ : catalytic applications in selective dye degradation. <i>CrystEngComm</i> , 2014, 16, 7738.	1.3	24
31	Evolution of tubular copper sulfide nanostructures from copper(i) metal organic precursor: a superior platform for the removal of Hg(ii) and Pb(ii) ions. <i>RSC Advances</i> , 2015, 5, 12446-12453.	1.7	20
32	Aromaticity driven interfacial synthetic strategy for porous platinum nanostructure: An efficient electrocatalyst for methanol and formic acid oxidation. <i>Electrochimica Acta</i> , 2015, 159, 52-60.	2.6	18
33	Environmentally benign and cost-effective synthesis of water soluble red light emissive gold nanoclusters: selective and ultra-sensitive detection of mercuric ions. <i>New Journal of Chemistry</i> , 2019, 43, 900-906.	1.4	13
34	Metal Bromide Controlled Interfacial Aromatization Reaction for Shape-Selective Synthesis of Palladium Nanostructures with Efficient Catalytic Performances. <i>Chemistry - A European Journal</i> , 2016, 22, 10017-10027.	1.7	8
35	Cu ₂ O~Cu ₂ Se Mixed-Phase Nanoflake Arrays: pH-Universal Hydrogen Evolution Reactions with Ultralow Overpotential. <i>ChemElectroChem</i> , 2019, 6, 5014-5021.	1.7	8