Subramaniam Jayabal

List of Publications by Year
in descending order

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21 papers	1,205 citations	567144 15 h-index	794469 19 g-index
21 all docs	21 docs citations	21 times ranked	2223 citing authors

#	Article	IF	Citations
1	Graphene and its nanocomposite material based electrochemical sensor platform for dopamine. RSC Advances, 2014, 4, 63296-63323.	1.7	272
2	Understanding the high-electrocatalytic performance of two-dimensional MoS₂ nanosheets and their composite materials. Journal of Materials Chemistry A, 2017, 5, 24540-24563.	5.2	183
3	Amalgamation based optical and colorimetric sensing of mercury(II) ions with silver@graphene oxide nanocomposite materials. Mikrochimica Acta, 2016, 183, 369-377.	2.5	108
4	Metallic 1T-MoS2 nanosheets and their composite materials: Preparation, properties and emerging applications. Materials Today Energy, 2018, 10, 264-279.	2.5	75
5	A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. Analyst, The, 2015, 140, 2540-2555.	1.7	64
6	Insight into the correlation of Ptâ€“support interactions with electrocatalytic activity and durability in fuel cells. Journal of Materials Chemistry A, 2020, 8, 9420-9446.	5.2	62
7	Fabrication of graphene/gold-modified screen-printed electrode for detection of carcinoembryonic antigen. Materials Science and Engineering C, 2016, 58, 666-674.	3.8	61
8	Titania@gold plasmonic nanoarchitectures: An ideal photoanode for dye-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2016, 60, 408-420.	8.2	58
9	Selective sensing of Hg2+ ions by optical and colorimetric methods using gold nanorods embedded in a functionalized silicate solâ€“gel matrix. Journal of Materials Chemistry A, 2014, 2, 8918.	5.2	53
10	Bimetallic Au/Ag nanorods embedded in functionalized silicate solâ€“gel matrix as an efficient catalyst for nitrobenzene reduction. Applied Catalysis A: General, 2014, 470, 369-375.	2.2	52
11	Synthesis of core/shell Au/Ag nanorods embedded in functionalized silicate solâ€“gel matrix and their applications in electrochemical sensors. Electrochimica Acta, 2013, 88, 51-58.	2.6	42
12	Facile assembly of Ni(OH)2 nanosheets on nitrogen-doped carbon nanotubes network as high-performance electrocatalyst for oxygen evolution reaction. Journal of Alloys and Compounds, 2018, 731, 766-773.	2.8	42
13	Reduced graphene oxideâ€“gold nanorod composite material stabilized in silicate solâ€“gel matrix for nitric oxide sensor. RSC Advances, 2014, 4, 33541.	1.7	38
14	Synthesis of nitrogen-doped reduced graphene oxide-multiwalled carbon nanotube composite on nickel foam as electrode for high-performance supercapacitor. Ceramics International, 2017, 43, 20-27.	2.3	37
15	Unravelling the synergy effects of defect-rich 1T-MoS₂/carbon nanotubes for the hydrogen evolution reaction by experimental and calculational studies. Sustainable Energy and Fuels, 2019, 3, 2100-2110.	2.5	34
16	Voltammetric determination of nitric oxide using a glassy carbon electrode modified with a nanohybrid consisting of myoglobin, gold nanorods, and reduced graphene oxide. Mikrochimica Acta, 2016, 183, 3077-3085.	2.5	11
17	Amperometric sensing of NADH at gold nanorods stabilized in amine-functionalized silicate solâ€“gel matrix modified electrode. Journal of Applied Electrochemistry, 2015, 45, 881-888.	1.5	6
18	One-Pot Hydrothermal Synthesis of Reduced Graphene Oxideâ€“Multiwalled Carbon Nanotubes Composite Material on Nickel Foam for Efficient Supercapacitor Electrode. Electrocatalysis, 2015, 6, 373-381.	1.5	6

#	Article	IF	Citations
19	Chapter 9. High Electrocatalytic Performance of Two-dimensional Layered MoS2-based Materials for the Hydrogen Evolution Reaction. RSC Smart Materials, 2019, , 283-310.	0.1	1
20	Monolayer Iridium Nanoparticles Coated TiO 2 Coreâ€Shell Architecture as Efficient Oxygen Evolution Reaction Electrocatalyst. ChemistrySelect, 2021, 6, 9134-9138.	0.7	0
21	Stable Water Oxidation Catalysts Based on in-situ Electrochemical Transition of Nickel Phosphate. Catalysis Letters, 0, , 1.	1.4	0