

Muthuchamy Nallal

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,783
citations

279701

23
h-index

454834

30
g-index

32
all docs

32
docs citations

32
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophilic nitrogen-doped carbon dots from biowaste using dwarf banana peel for environmental and biological applications. <i>Fuel</i> , 2020, 275, 117821.	3.4	273
2	Functionalized conjugated polymers for sensing and molecular imprinting applications. <i>Progress in Polymer Science</i> , 2019, 88, 1-129.	11.8	173
3	An ultrasensitive photoelectrochemical biosensor for glucose based on bio-derived nitrogen-doped carbon sheets wrapped titanium dioxide nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019, 126, 160-169.	5.3	121
4	Fabrication of a novel dual mode cholesterol biosensor using titanium dioxide nanowire bridged 3D graphene nanostacks. <i>Biosensors and Bioelectronics</i> , 2016, 84, 64-71.	5.3	102
5	Functional solid additive modified PEDOT:PSS as an anode buffer layer for enhanced photovoltaic performance and stability in polymer solar cells. <i>Scientific Reports</i> , 2017, 7, 45079.	1.6	98
6	High-performance glucose biosensor based on green synthesized zinc oxide nanoparticle embedded nitrogen-doped carbon sheet. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 195-204.	1.9	97
7	Fabrication of PdAg nanoparticle infused metal-organic framework for electrochemical and solution-chemical reduction and detection of toxic 4-nitrophenol. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126861.	4.0	85
8	A novel bismuth oxychloride-graphene hybrid nanosheets based non-enzymatic photoelectrochemical glucose sensing platform for high performances. <i>Biosensors and Bioelectronics</i> , 2017, 89, 352-360.	5.3	82
9	New Titanium Dioxide-Based Heterojunction Nanohybrid for Highly Selective Photoelectrochemical Electrochemical Dual-Mode Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37166-37183.	4.0	62
10	MOF-Derived Cu@Cu ₂ O Nanocatalyst for Oxygen Reduction Reaction and Cycloaddition Reaction. <i>Nanomaterials</i> , 2018, 8, 138.	1.9	62
11	A novel multicomponent redox polymer nanobead based high performance non-enzymatic glucose sensor. <i>Biosensors and Bioelectronics</i> , 2016, 84, 53-63.	5.3	58
12	Ultrasensitive detection of hydrogen peroxide and dopamine using copolymer-grafted metal-organic framework based electrochemical sensor. <i>Analytica Chimica Acta</i> , 2020, 1118, 26-35.	2.6	55
13	Mn ³⁺ Active Surface Site Enriched Manganese Phosphate Nanopolyhedrons for Enhanced Bifunctional Oxygen Electrocatalyst. <i>ChemCatChem</i> , 2020, 12, 2348-2355.	1.8	53
14	Enhanced photoelectrochemical biosensing performances for graphene (2D) Titanium dioxide nanowire (1D) heterojunction polymer conductive nanosponges. <i>Biosensors and Bioelectronics</i> , 2017, 89, 390-399.	5.3	52
15	Mechanochemical assisted synthesis of heteroatoms inherited highly porous carbon from biomass for electrochemical capacitor and oxygen reduction reaction electrocatalysis. <i>Electrochimica Acta</i> , 2019, 317, 1-9.	2.6	46
16	Bimetallic NiPd Nanoparticle-Incorporated Ordered Mesoporous Carbon as Highly Efficient Electrocatalysts for Hydrogen Production via Overall Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15526-15536.	3.2	44
17	Incorporation of silver nanoparticles on the surface of orthodontic microimplants to achieve antimicrobial properties. <i>Korean Journal of Orthodontics</i> , 2017, 47, 3.	0.8	39
18	A new facile strategy for higher loading of silver nanoparticles onto silica for efficient catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2015, 5, 76170-76181.	1.7	38

#	ARTICLE	IF	CITATIONS
19	Highly selective non-enzymatic electrochemical sensor based on a titanium dioxide nanowire@poly(3-aminophenyl boronic acid)@gold nanoparticle ternary nanocomposite. RSC Advances, 2018, 8, 2138-2147.	1.7	38
20	Eco-friendly synthesis of tunable fluorescent carbon nanodots from Malus floribunda for sensors and multicolor bioimaging. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112336.	2.0	38
21	Polyaniline nanoflowers grafted onto nanodiamonds via a soft template-guided secondary nucleation process for high-performance glucose sensing. RSC Advances, 2017, 7, 15342-15351.	1.7	36
22	Self-assembled 3D hierarchical MnCO ₃ /NiFe layered double hydroxides as a superior electrocatalysts for the oxygen evolution reactions. Journal of Colloid and Interface Science, 2020, 566, 224-233.	5.0	32
23	One-pot synthesis of Fe ₃ O ₄ @graphite sheets as electrocatalyst for water electrolysis. Fuel, 2020, 277, 118235.	3.4	26
24	A Co-MOF-derived flower-like CoS@S,N-doped carbon matrix for highly efficient overall water splitting. RSC Advances, 2021, 11, 16823-16833.	1.7	20
25	Synthesis of silver nanostructures in ionic liquid media and their application to photodegradation of methyl orange. Nanomaterials and Nanotechnology, 2019, 9, 184798041983650.	1.2	15
26	Palladium-loaded core-shell nanospindle as potential alternative electrocatalyst for oxygen reduction reaction. Electrochimica Acta, 2019, 325, 134938.	2.6	10
27	Design of Graphene- and Polyaniline-Containing Functional Polymer Hydrogel as a New Adsorbent for Removal of Chromium (VI) Ions. Polymers, 2016, 8, 445.	2.0	9
28	PdO/ZnO@mSiO ₂ Hybrid Nanocatalyst for Reduction of Nitroarenes. Catalysts, 2018, 8, 280.	1.6	9
29	Preparation of Graphene Included Crosslinked Polyacrylate Gel as an Efficient Adsorbent for Chromium(VI) Ions. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 569-574.	0.1	2
30	New Nafion/Conducting Polymer Composite for Membrane Application. , 2016, , .		1
31	Nanoscale materials with different dimensions for advanced electrocatalysts. , 2020, , 193-218.		0