

# 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	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
2	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
3	Ultrasensitive detection of hydrogen peroxide and dopamine using copolymer-grafted metal-organic framework based electrochemical sensor. Analytica Chimica Acta, 2020, 1118, 26-35.	2.6	55
4	One-pot synthesis of Fe <sub>3</sub> O <sub>4</sub> @graphite sheets as electrocatalyst for water electrolysis. Fuel, 2020, 277, 118235.	3.4	26
5	Hydrophilic nitrogen-doped carbon dots from biowaste using dwarf banana peel for environmental and biological applications. Fuel, 2020, 275, 117821.	3.4	273
6	Nanoscale materials with different dimensions for advanced electrocatalysts. , 2020, , 193-218.		0
7	Mn <sup>3+</sup> Active Surface Site Enriched Manganese Phosphate Nano-polyhedrons for Enhanced Bifunctional Oxygen Electrocatalyst. ChemCatChem, 2020, 12, 2348-2355.	1.8	53
8	Self-assembled 3D hierarchical MnCO <sub>3</sub> /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
9	Functionalized conjugated polymers for sensing and molecular imprinting applications. Progress in Polymer Science, 2019, 88, 1-129.	11.8	173
10	Bimetallic NiPd Nanoparticle-Incorporated Ordered Mesoporous Carbon as Highly Efficient Electrocatalysts for Hydrogen Production via Overall Urea Electrolysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 15526-15536.	3.2	44
11	Fabrication of PdAg nanoparticle infused metal-organic framework for electrochemical and solution-chemical reduction and detection of toxic 4-nitrophenol. Sensors and Actuators B: Chemical, 2019, 298, 126861.	4.0	85
12	Palladium-loaded core-shell nanospindle as potential alternative electrocatalyst for oxygen reduction reaction. Electrochimica Acta, 2019, 325, 134938.	2.6	10
13	Mechanochemical assisted synthesis of heteroatoms inherited highly porous carbon from biomass for electrochemical capacitor and oxygen reduction reaction electrocatalysis. Electrochimica Acta, 2019, 317, 1-9.	2.6	46
14	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
15	An ultrasensitive photoelectrochemical biosensor for glucose based on bio-derived nitrogen-doped carbon sheets wrapped titanium dioxide nanoparticles. Biosensors and Bioelectronics, 2019, 126, 160-169.	5.3	121
16	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
17	High-performance glucose biosensor based on green synthesized zinc oxide nanoparticle embedded nitrogen-doped carbon sheet. Journal of Electroanalytical Chemistry, 2018, 816, 195-204.	1.9	97
18	PdO/ZnO@mSiO <sub>2</sub> Hybrid Nanocatalyst for Reduction of Nitroarenes. Catalysts, 2018, 8, 280.	1.6	9

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19	MOF-Derived Cu@Cu <sub>2</sub> O Nanocatalyst for Oxygen Reduction Reaction and Cycloaddition Reaction. <i>Nanomaterials</i> , 2018, 8, 138.	1.9	62
20	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
21	Polyaniline nanoflowers grafted onto nanodiamonds via a soft template-guided secondary nucleation process for high-performance glucose sensing. <i>RSC Advances</i> , 2017, 7, 15342-15351.	1.7	36
22	New Titanium Dioxide-Based Heterojunction Nanohybrid for Highly Selective Photoelectrochemical Electrochemical Dual-Mode Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37166-37183.	4.0	62
23	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
24	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
25	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
26	Preparation of Graphene Included Crosslinked Polyacrylate Gel as an Efficient Adsorbent for Chromium(VI) Ions. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017, 12, 569-574.	0.1	2
27	Design of Graphene- and Polyaniline-Containing Functional Polymer Hydrogel as a New Adsorbent for Removal of Chromium (VI) Ions. <i>Polymers</i> , 2016, 8, 445.	2.0	9
28	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
29	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
30	New Nafion/Conducting Polymer Composite for Membrane Application. , 2016, , .		1
31	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