

Balamurugan Thirumalraj

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,401
citations

159585

30
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

2692
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of gadolinium oxide with functionalized carbon nanosphere: A portable advanced electrocatalyst for pesticide detection in aqueous environmental samples. <i>Talanta</i> , 2022, 238, 123028.	5.5	24
2	Mesoporous SnSe ₂ -grafted N-doped carbon composites with integrated flaky structure for electrochemical sensing of carbendazim. <i>Ceramics International</i> , 2022, 48, 16023-16032.	4.8	43
3	Fabricating BiOCl/BiVO ₄ nanosheets wrapped in a graphene oxide heterojunction composite for detection of an antihistamine in biological samples. <i>Environmental Research</i> , 2022, 212, 113636.	7.5	29
4	Solid-State Ball-Milling of Co ₃ O ₄ Nano/Microspheres and Carbon Black Endorsed LaMnO ₃ Perovskite Catalyst for Bifunctional Oxygen Electrocatalysis. <i>Catalysts</i> , 2021, 11, 76.	3.5	25
5	Decoupling the origins of irreversible coulombic efficiency in anode-free lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 1452.	12.8	111
6	Graphene Nanosheet-Wrapped Mesoporous La _{0.8} Ce _{0.2} Fe _{0.5} Mn _{0.5} O ₃ Perovskite Oxide Composite for Improved Oxygen Reaction Electro-Kinetics and Li-O ₂ Battery Application. <i>Nanomaterials</i> , 2021, 11, 1025.	4.1	11
7	Binder-free ultra-thin graphene oxide as an artificial solid electrolyte interphase for anode-free rechargeable lithium metal batteries. <i>Journal of Power Sources</i> , 2020, 450, 227589.	7.8	93
8	Rational Design and Interlayer Effect of Dysprosium-Stannate Nanoplatelets Incorporated Graphene Oxide: A Versatile and Competent Electrocatalyst for Toxic Carbamate Pesticide Detection in Vegetables. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17882-17892.	6.7	53
9	Synthesis of a High-Capacity NiO/Ni Foam Anode for Advanced Lithium-Ion Batteries. <i>Advanced Engineering Materials</i> , 2020, 22, 2000351.	3.5	12
10	Garnet-PVDF composite film modified lithium manganese oxide cathode and sulfurized carbon anode from polyacrylonitrile for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14043-14053.	10.3	12
11	Hierarchical 3D Architected Ag Nanowires Shelled with NiMn-Layered Double Hydroxide as an Efficient Bifunctional Oxygen Electrocatalyst. <i>ACS Nano</i> , 2020, 14, 1770-1782.	14.6	145
12	Developing high-voltage carbonate-ether mixed electrolyte via anode-free cell configuration. <i>Journal of Power Sources</i> , 2020, 461, 228053.	7.8	37
13	Effects of Concentrated Salt and Resting Protocol on Solid Electrolyte Interface Formation for Improved Cycle Stability of Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31962-31971.	8.0	58
14	Effect of bifunctional additive potassium nitrate on performance of anode free lithium metal battery in carbonate electrolyte. <i>Journal of Power Sources</i> , 2019, 437, 226912.	7.8	86
15	Nucleation and Growth Mechanism of Lithium Metal Electroplating. <i>Journal of the American Chemical Society</i> , 2019, 141, 18612-18623.	13.7	144
16	Locally Concentrated LiPF ₆ in a Carbonate-Based Electrolyte with Fluoroethylene Carbonate as a Diluent for Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9955-9963.	8.0	141
17	Facile synthesis of hierarchically nanostructured bismuth vanadate: An efficient photocatalyst for degradation and detection of hexavalent chromium. <i>Journal of Hazardous Materials</i> , 2019, 367, 647-657.	12.4	66
18	Revealing Hidden Chemistry of Anode-Free Lithium Metal Battery. <i>ECS Meeting Abstracts</i> , 2019, , ,	0.0	0

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19	Design of novel WO ₃ /CB nanohybrids—An affordable and efficient electrochemical sensor for the detection of multifunctional flavonoid rutin. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1085-1093.	6.0	31
20	Electrochemical co-preparation of cobalt sulfide/reduced graphene oxide composite for electrocatalytic activity and determination of H ₂ O ₂ in biological samples. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 153-162.	9.4	60
21	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 339-346.	7.8	50
22	Ultrathin Sulfur-Doped Graphitic Carbon Nitride Nanosheets As Metal-Free Catalyst for Electrochemical Sensing and Catalytic Removal of 4-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16021-16031.	6.7	137
23	Ultrathin 2D graphitic carbon nitride nanosheets decorated with silver nanoparticles for electrochemical sensing of quercetin. <i>Journal of Electroanalytical Chemistry</i> , 2018, 826, 207-216.	3.8	56
24	Voltammetric determination of catechol and hydroquinone using nitrogen-doped multiwalled carbon nanotubes modified with nickel nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 395.	5.0	41
25	One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. <i>Scientific Reports</i> , 2017, 7, 41213.	3.3	66
26	Determination of 4-nitrophenol in water by use of a screen-printed carbon electrode modified with chitosan-crafted ZnO nanoneedles. <i>Journal of Colloid and Interface Science</i> , 2017, 499, 83-92.	9.4	79
27	Highly sensitive electrochemical detection of palmitate using a biocompatible multiwalled carbon nanotube/poly-L-lysine composite. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 144-152.	9.4	36
28	Ruthenium Nanoparticles Decorated Tungsten Oxide as a Bifunctional Catalyst for Electrocatalytic and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31794-31805.	8.0	50
29	Light-Controlled Photochemical Synthesis of Gelatin-Capped Gold Nanoparticles for Spectral Activity and Electro-oxidation of Quercetin. <i>ChemElectroChem</i> , 2017, 4, 2842-2851.	3.4	8
30	One-pot electrochemical preparation of copper species immobilized poly(o-aminophenol)/MWCNT composite with excellent electrocatalytic activity for use as an H ₂ O ₂ sensor. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1356-1364.	6.0	7
31	A simple preparation of graphite/gelatin composite for electrochemical detection of dopamine. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 149-155.	9.4	41
32	Development of electrochemical sensor for the determination of palladium ions (Pd ²⁺) using flexible screen printed un-modified carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 123-128.	9.4	24
33	Novel electrochemical preparation of gold nanoparticles decorated on a reduced graphene oxide—fullerene composite for the highly sensitive electrochemical detection of nitrite. <i>RSC Advances</i> , 2016, 6, 68798-68805.	3.6	26
34	Direct electrochemistry of immobilized hemoglobin and sensing of bromate at a glassy carbon electrode modified with graphene and β -cyclodextrin. <i>Mikrochimica Acta</i> , 2016, 183, 1953-1961.	5.0	23
35	A simple electrochemical platform for detection of nitrobenzene in water samples using an alumina polished glassy carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 475, 154-160.	9.4	41
36	Highly stable biomolecule supported by gold nanoparticles/graphene nanocomposite as a sensing platform for H ₂ O ₂ biosensor application. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6335-6343.	5.8	36

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37	A Facile Electrochemical Preparation of Reduced Graphene Oxide@Polydopamine Composite: A Novel Electrochemical Sensing Platform for Amperometric Detection of Chlorpromazine. <i>Scientific Reports</i> , 2016, 6, 33599.	3.3	50
38	Amperometric detection of nitrite in water samples by use of electrodes consisting of palladium-nanoparticle-functionalized multi-walled carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 413-420.	9.4	57
39	Alumina Polished Glassy Carbon Electrode as a Simple Electrode for Lower Potential Electrochemical Detection of Dopamine in its Submicromolar Level. <i>Electroanalysis</i> , 2016, 28, 425-430.	2.9	27
40	Non-enzymatic amperometric detection of hydrogen peroxide in human blood serum samples using a modified silver nanowire electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 117-122.	9.4	30
41	Preparation of β -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. <i>Carbohydrate Polymers</i> , 2016, 135, 267-273.	10.2	52
42	Preparation of highly stable fullerene C60 decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 375-381.	9.4	65
43	Fabrication of Silver Nanoparticles Decorated on Activated Screen Printed Carbon Electrode and Its Application for Ultrasensitive Detection of Dopamine. <i>Electroanalysis</i> , 2015, 27, 1998-2006.	2.9	33
44	An electrochemical facile fabrication of platinum nanoparticle decorated reduced graphene oxide; application for enhanced electrochemical sensing of H_2O_2 . <i>RSC Advances</i> , 2015, 5, 105567-105573.	3.6	27
45	Palladium nanoparticles decorated on activated fullerene modified screen printed carbon electrode for enhanced electrochemical sensing of dopamine. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 251-256.	9.4	74
46	Electrochemical fabrication of gold nanoparticles decorated on activated fullerene C60: an enhanced sensing platform for trace level detection of toxic hydrazine in water samples. <i>RSC Advances</i> , 2015, 5, 94591-94598.	3.6	25
47	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. <i>RSC Advances</i> , 2015, 5, 77651-77657.	3.6	50