

A T Ezhil Vilian

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,822
citations

185998

28
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276539

41
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42
all docs

42
docs citations

42
times ranked

2956
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An enzyme-free electrochemical sensor based on reduced graphene oxide/Co ₃ O ₄ nanospindle composite for sensitive detection of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 92-99. | 4.0 | 154 |
| 2 | Pd nanospheres decorated reduced graphene oxide with multi-functions: Highly efficient catalytic reduction and ultrasensitive sensing of hazardous 4-nitrophenol pollutant. <i>Journal of Hazardous Materials</i> , 2017, 333, 54-62. | 6.5 | 145 |
| 3 | Development of gold nanoparticle-aptamer-based LSPR sensing chips for the rapid detection of <i>Salmonella typhimurium</i> in pork meat. <i>Scientific Reports</i> , 2017, 7, 10130. | 1.6 | 130 |
| 4 | Hexagonal Co ₃ O ₄ anchored reduced graphene oxide sheets for high-performance supercapacitors and non-enzymatic glucose sensing. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14367-14379. | 5.2 | 118 |
| 5 | Simultaneous determination of catechol and hydroquinone using a Pt/ZrO ₂ -RGO/GCE composite modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2014, 125, 503-509. | 2.6 | 79 |
| 6 | In situ electrochemical synthesis of highly loaded zirconium nanoparticles decorated reduced graphene oxide for the selective determination of dopamine and paracetamol in presence of ascorbic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 115, 295-301. | 2.5 | 66 |
| 7 | A simple strategy for the immobilization of catalase on multi-walled carbon nanotube/poly (L-lysine) biocomposite for the detection of H ₂ O ₂ and iodate. <i>Biosensors and Bioelectronics</i> , 2014, 61, 639-647. | 5.3 | 60 |
| 8 | Fabrication of Palladium Nanoparticles on Porous Aromatic Frameworks as a Sensing Platform to Detect Vanillin. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12740-12747. | 4.0 | 57 |
| 9 | Salt-templated three-dimensional porous carbon for electrochemical determination of gallic acid. <i>Biosensors and Bioelectronics</i> , 2018, 117, 597-604. | 5.3 | 56 |
| 10 | Fabrication of 3D honeycomb-like porous polyurethane-functionalized reduced graphene oxide for detection of dopamine. <i>Biosensors and Bioelectronics</i> , 2016, 86, 122-128. | 5.3 | 54 |
| 11 | Electrochemical determination of dopamine using a glassy carbon electrode modified with TiN-reduced graphene oxide nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 61-69. | 4.0 | 54 |
| 12 | Direct electrochemistry of glucose oxidase immobilized on ZrO ₂ nanoparticles-decorated reduced graphene oxide sheets for a glucose biosensor. <i>RSC Advances</i> , 2014, 4, 30358-30367. | 1.7 | 51 |
| 13 | An electrocatalytic oxidation and voltammetric method using a chemically reduced graphene oxide film for the determination of caffeic acid. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 33-40. | 5.0 | 48 |
| 14 | Recent advances in molybdenum disulfide-based electrode materials for electroanalytical applications. <i>Mikrochimica Acta</i> , 2019, 186, 203. | 2.5 | 46 |
| 15 | Pt-Au bimetallic nanoparticles decorated on reduced graphene oxide as an excellent electrocatalysts for methanol oxidation. <i>Synthetic Metals</i> , 2016, 219, 52-59. | 2.1 | 45 |
| 16 | A biocompatible implant electrode capable of operating in body fluids for energy storage devices. <i>Nano Energy</i> , 2017, 34, 86-92. | 8.2 | 44 |
| 17 | Facile synthesis of MnO ₂ /carbon nanotubes decorated with a nanocomposite of Pt nanoparticles as a new platform for the electrochemical detection of catechin in red wine and green tea samples. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6285-6292. | 2.9 | 43 |
| 18 | Immobilization of myoglobin on Au nanoparticle-decorated carbon nanotube/polytyramine composite as a mediator-free H ₂ O ₂ and nitrite biosensor. <i>Scientific Reports</i> , 2015, 5, 18390. | 1.6 | 40 |

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|----|--|-----|-----------|
| 19 | The Immobilization of Glucose Oxidase at Manganese Dioxide Particles-Decorated Reduced Graphene Oxide Sheets for the Fabrication of a Glucose Biosensor. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15582-15589. | 1.8 | 39 |
| 20 | Electrochemical determination of quercetin based on porous aromatic frameworks supported Au nanoparticles. <i>Electrochimica Acta</i> , 2016, 216, 181-187. | 2.6 | 38 |
| 21 | A screen printed carbon electrode modified with an amino-functionalized metal organic framework of type MIL-101(Cr) and with palladium nanoparticles for voltammetric sensing of nitrite. <i>Mikrochimica Acta</i> , 2017, 184, 4793-4801. | 2.5 | 38 |
| 22 | High electrocatalytic performance of platinum and manganese dioxide nanoparticle decorated reduced graphene oxide sheets for methanol electro-oxidation. <i>RSC Advances</i> , 2014, 4, 41387-41397. | 1.7 | 34 |
| 23 | Palladium Supported on an Amphiphilic Triazine-“Urea-Functionalized Porous Organic Polymer as a Highly Efficient Electrocatalyst for Electrochemical Sensing of Rutin in Human Plasma. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19554-19563. | 4.0 | 34 |
| 24 | Nano-graphene oxide composite for in vivo imaging. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 221-234. | 3.3 | 32 |
| 25 | Pumpkin stem-derived activated carbons as counter electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 63917-63921. | 1.7 | 31 |
| 26 | Preparation of a reduced graphene oxide/poly- <i>l</i> -glutathione nanocomposite for electrochemical detection of 4-aminophenol in orange juice samples. <i>Analytical Methods</i> , 2015, 7, 5627-5634. | 1.3 | 30 |
| 27 | Simple approach for the immobilization of horseradish peroxidase on poly- <i>l</i> -histidine modified reduced graphene oxide for amperometric determination of dopamine and H_2O_2 . <i>RSC Advances</i> , 2014, 4, 55867-55876. | 1.7 | 28 |
| 28 | A promising photoelectrochemical sensor based on a ZnO particle decorated N-doped reduced graphene oxide modified electrode for simultaneous determination of catechol and hydroquinone. <i>RSC Advances</i> , 2014, 4, 48522-48534. | 1.7 | 28 |
| 29 | Preparation of carbon nanotubes decorated with manganese dioxide nanoparticles for electrochemical determination of ferulic acid. <i>Mikrochimica Acta</i> , 2015, 182, 1103-1111. | 2.5 | 26 |
| 30 | Direct electrochemistry and electrocatalysis of glucose oxidase based poly- <i>l</i> -arginine)-multi-walled carbon nanotubes. <i>RSC Advances</i> , 2014, 4, 50771-50781. | 1.7 | 25 |
| 31 | Square voltammetric sensing of mercury at very low working potential by using oligomer-functionalized Ag@Au core-shell nanoparticles. <i>Mikrochimica Acta</i> , 2017, 184, 3547-3556. | 2.5 | 23 |
| 32 | Electrochemical oxidation and determination of norepinephrine in the presence of acetaminophen using MnO ₂ nanoparticle decorated reduced graphene oxide sheets. <i>Analytical Methods</i> , 2014, 6, 6504-6513. | 1.3 | 19 |
| 33 | A spick-and-span approach to the immobilization of horseradish peroxidase on Au nanospheres incorporated with a methionine/graphene biomatrix for the determination of endocrine disruptor bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 804-812. | 4.0 | 19 |
| 34 | Rapid and label-free bioanalytical method of alpha fetoprotein detection using LSPR chip. <i>Journal of Crystal Growth</i> , 2017, 469, 131-135. | 0.7 | 17 |
| 35 | Facile fabrication of paper-based analytical devices for rapid and highly selective colorimetric detection of cesium in environmental samples. <i>RSC Advances</i> , 2017, 7, 48374-48385. | 1.7 | 16 |
| 36 | The electrochemical synthesis of Pt particles on ZrO ₂ -“ERGO modified electrodes with high electrocatalytic performance for methanol oxidation. <i>New Journal of Chemistry</i> , 2015, 39, 953-961. | 1.4 | 12 |

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|----|--|-----|-----------|
| 37 | Using multi-walled carbon nanotubes to enhance coimmobilization of poly(azure A) and poly(neutral) Tj ETQq1 1 0.784314 rgBT /Ove 2014, 4, 45566-45574. | 1.7 | 10 |
| 38 | Polyisothianaphthene/graphene nanocomposite as a new counter electrode material for high performance dye sensitized solar cell. Synthetic Metals, 2017, 230, 58-64. | 2.1 | 10 |
| 39 | Cesium-induced inhibition of bacterial growth of Pseudomonas aeruginosa PAO1 and their possible potential applications for bioremediation of wastewater. Journal of Hazardous Materials, 2017, 338, 323-333. | 6.5 | 10 |
| 40 | A facile method for the fabrication of hierarchically structured Ni ₂ CoS ₄ nanopetals on carbon nanofibers to enhance non-enzymatic glucose oxidation. Mikrochimica Acta, 2021, 188, 106. | 2.5 | 8 |
| 41 | Design and development of caffeic acid conjugated with Bombyx mori derived peptide biomaterials for anti-aging skin care applications. RSC Advances, 2017, 7, 30205-30213. | 1.7 | 5 |