

Selvakumar Palanisamy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9435032/publications.pdf>

Version: 2024-02-01

84
papers

4,514
citations

70961

41
h-index

106150

65
g-index

84
all docs

84
docs citations

84
times ranked

5431
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. <i>Biosensors and Bioelectronics</i> , 2013, 39, 70-75. | 5.3 | 342 |
| 2 | A novel nonenzymatic hydrogen peroxide sensor based on reduced graphene oxide/ZnO composite modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 372-377. | 4.0 | 185 |
| 3 | Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. <i>Mikrochimica Acta</i> , 2013, 180, 1037-1042. | 2.5 | 175 |
| 4 | Simultaneous electrochemical determination of dopamine and paracetamol on multiwalled carbon nanotubes/graphene oxide nanocomposite-modified glassy carbon electrode. <i>Talanta</i> , 2013, 117, 297-304. | 2.9 | 164 |
| 5 | Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinemia. <i>Journal of Hazardous Materials</i> , 2014, 279, 117-124. | 6.5 | 142 |
| 6 | Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 164-169. | 2.5 | 138 |
| 7 | A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 450-456. | 4.0 | 123 |
| 8 | A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. <i>Scientific Reports</i> , 2017, 7, 41214. | 1.6 | 110 |
| 9 | Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. <i>Materials Science and Engineering C</i> , 2015, 56, 374-379. | 3.8 | 108 |
| 10 | A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. <i>Electrochimica Acta</i> , 2014, 139, 157-164. | 2.6 | 100 |
| 11 | Synthesis of Fe_2O_3 decorated g-C ₃ N ₄ /ZnO ternary Z-scheme photocatalyst for degradation of tartrazine dye in aqueous media. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 258-267. | 2.7 | 95 |
| 12 | Highly selective dopamine electrochemical sensor based on electrochemically pretreated graphite and nafion composite modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 182-186. | 5.0 | 87 |
| 13 | Synthesis and characterization of polypyrrole decorated graphene- β -cyclodextrin composite for low level electrochemical detection of mercury (II) in water. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 888-894. | 4.0 | 87 |
| 14 | Amperometric glucose biosensor based on glucose oxidase dispersed in multiwalled carbon nanotubes/graphene oxide hybrid biocomposite. <i>Materials Science and Engineering C</i> , 2014, 34, 207-213. | 3.8 | 86 |
| 15 | Preparation and characterization of gold nanoparticles decorated on graphene oxide@polydopamine composite: Application for sensitive and low potential detection of catechol. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 298-306. | 4.0 | 76 |
| 16 | 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. | 5.0 | 74 |
| 17 | Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , 2015, 5, 31139-31146. | 1.7 | 73 |
| 18 | Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. <i>Scientific Reports</i> , 2017, 7, 14182. | 1.6 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1847-1854. | 1.2 | 70 |
| 20 | Highly sensitive and selective hydrogen peroxide biosensor based on hemoglobin immobilized at multiwalled carbon nanotubes/zinc oxide composite electrode. <i>Analytical Biochemistry</i> , 2012, 429, 108-115. | 1.1 | 68 |
| 21 | A novel amperometric nitrite sensor based on screen printed carbon electrode modified with graphite/ β -cyclodextrin composite. <i>Journal of Electroanalytical Chemistry</i> , 2016, 760, 97-104. | 1.9 | 67 |
| 22 | One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. <i>Scientific Reports</i> , 2017, 7, 41213. | 1.6 | 66 |
| 23 | A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 370-377. | 5.0 | 66 |
| 24 | 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. | 5.0 | 65 |
| 25 | Carboxyl-functionalized graphene oxide-modified electrode for the electrochemical determination of nonsteroidal anti-inflammatory drug diclofenac. <i>Ionics</i> , 2015, 21, 231-238. | 1.2 | 64 |
| 26 | Synthesis of novel and environmental sustainable AgI-Ag ₂ S nanospheres impregnated g-C ₃ N ₄ photocatalyst for efficient degradation of aqueous pollutants. <i>Applied Surface Science</i> , 2020, 500, 143991. | 3.1 | 59 |
| 27 | 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. | 5.0 | 57 |
| 28 | Voltammetric determination of Sudan I in food samples based on platinum nanoparticles decorated on graphene- β -cyclodextrin modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 64-70. | 1.9 | 57 |
| 29 | Novel electrochemical synthesis of cellulose microfiber entrapped reduced graphene oxide: A sensitive electrochemical assay for detection of fenitrothion organophosphorus pesticide. <i>Talanta</i> , 2019, 192, 471-477. | 2.9 | 55 |
| 30 | Preparation of β -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. <i>Carbohydrate Polymers</i> , 2016, 135, 267-273. | 5.1 | 52 |
| 31 | Preparation of chitosan grafted graphite composite for sensitive detection of dopamine in biological samples. <i>Carbohydrate Polymers</i> , 2016, 151, 401-407. | 5.1 | 51 |
| 32 | Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C ₆₀ composite. <i>RSC Advances</i> , 2015, 5, 77651-77657. | 1.7 | 50 |
| 33 | Electrochemical Determination of Caffeic Acid in Wine Samples Using Reduced Graphene Oxide/Polydopamine Composite. <i>Journal of the Electrochemical Society</i> , 2016, 163, B726-B731. | 1.3 | 50 |
| 34 | 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. | 1.6 | 50 |
| 35 | Direct electrochemistry of myoglobin at silver nanoparticles/myoglobin biocomposite: Application for hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 177-184. | 4.0 | 49 |
| 36 | Direct electrochemistry of glucose oxidase and sensing glucose using a screen-printed carbon electrode modified with graphite nanosheets and zinc oxide nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1843-1850. | 2.5 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Highly sensitive and selective amperometric nitrite sensor based on electrochemically activated graphite modified screen printed carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 34-38. | 1.9 | 46 |
| 38 | A sensitive and selective enzyme-free amperometric glucose biosensor using a composite from multi-walled carbon nanotubes and cobalt phthalocyanine. <i>RSC Advances</i> , 2015, 5, 26762-26768. | 1.7 | 46 |
| 39 | Synthesis of boron doped C ₃ N ₄ /NiFe ₂ O ₄ nanocomposite: An enhanced visible light photocatalyst for the degradation of methylene blue. <i>Results in Physics</i> , 2019, 12, 1238-1244. | 2.0 | 46 |
| 40 | Novel electrochemical synthesis of copper oxide nanoparticles decorated graphene- β -cyclodextrin composite for trace-level detection of antibiotic drug metronidazole. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 37-45. | 5.0 | 43 |
| 41 | Simultaneous and selective electrochemical determination of dihydroxybenzene isomers at a reduced graphene oxide and copper nanoparticles composite modified glassy carbon electrode. <i>Analytical Methods</i> , 2014, 6, 4271-4278. | 1.3 | 41 |
| 42 | 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. | 5.0 | 41 |
| 43 | One pot electrochemical synthesis of poly(melamine) entrapped gold nanoparticles composite for sensitive and low level detection of catechol. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 364-370. | 5.0 | 41 |
| 44 | Ultrasonic assisted functionalization of MWCNT and synergistic electrocatalytic effect of nano-hydroxyapatite incorporated MWCNT-chitosan scaffolds for sensing of nitrofurantoin. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104863. | 3.8 | 41 |
| 45 | Preparation and characterization of a novel hybrid hydrogel composite of chitin stabilized graphite: Application for selective and simultaneous electrochemical detection of dihydroxybenzene isomers in water. <i>Journal of Electroanalytical Chemistry</i> , 2017, 785, 40-47. | 1.9 | 38 |
| 46 | Single-crystalline SnS ₂ nano-hexagons based non-enzymatic electrochemical sensor for detection of carcinogenic nitrite in food samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128106. | 4.0 | 37 |
| 47 | Mesoporous transition metal oxides quasi-nanospheres with enhanced electrochemical properties for supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 73-83. | 5.0 | 35 |
| 48 | Enhanced reversible redox activity of hemin on cellulose microfiber integrated reduced graphene oxide for H ₂ O ₂ biosensor applications. <i>Carbohydrate Polymers</i> , 2019, 204, 152-160. | 5.1 | 34 |
| 49 | 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. | 1.5 | 33 |
| 50 | A low temperature synthesis of activated carbon from the bio waste for simultaneous electrochemical determination of hydroquinone and catechol. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 84-90. | 1.9 | 31 |
| 51 | Tin disulfide nanorod-graphene- β -cyclodextrin nanocomposites for sensing dopamine in rat brains and human blood serum. <i>Materials Science and Engineering C</i> , 2020, 108, 110367. | 3.8 | 31 |
| 52 | Green synthesis of gold nanoparticles and its application for the trace level determination of painter's colic. <i>RSC Advances</i> , 2015, 5, 16284-16291. | 1.7 | 30 |
| 53 | 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. | 5.0 | 30 |
| 54 | One-pot sonochemical synthesis of CuS nanoplates decorated partially reduced graphene oxide for biosensing of dopamine neurotransmitter. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105043. | 3.8 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Voltammetric determination of catechol based on a glassy carbon electrode modified with a composite consisting of graphene oxide and polymelamine. <i>Mikrochimica Acta</i> , 2017, 184, 1051-1057. | 2.5 | 29 |
| 56 | Sonochemical synthesis of gum guar biopolymer stabilized copper oxide on exfoliated graphite: Application for enhanced electrochemical detection of H ₂ O ₂ in milk and pharmaceutical samples. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 254-263. | 3.8 | 29 |
| 57 | Facile synthesis of cellulose microfibers supported palladium nanospindles on graphene oxide for selective detection of dopamine in pharmaceutical and biological samples. <i>Materials Science and Engineering C</i> , 2019, 98, 256-265. | 3.8 | 28 |
| 58 | An electrochemical facile fabrication of platinum nanoparticle decorated reduced graphene oxide; application for enhanced electrochemical sensing of H ₂ O ₂ . <i>RSC Advances</i> , 2015, 5, 105567-105573. | 1.7 | 27 |
| 59 | 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. | 1.5 | 27 |
| 60 | 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. | 1.7 | 26 |
| 61 | Graphene dispersed cellulose microfibers composite for efficient immobilization of hemoglobin and selective biosensor for detection of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 175-182. | 4.0 | 26 |
| 62 | Fabrication of Nickel Tetrasulfonated Phthalocyanine Functionalized Multiwalled Carbon Nanotubes on Activated Glassy Carbon Electrode for the Detection of Dopamine. <i>Electroanalysis</i> , 2015, 27, 485-493. | 1.5 | 25 |
| 63 | 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. | 1.7 | 25 |
| 64 | A Highly Sensitive and Selective Enzymatic Biosensor Based on Direct Electrochemistry of Hemoglobin at Zinc Oxide Nanoparticles Modified Activated Screen Printed Carbon Electrode. <i>Electroanalysis</i> , 2014, 26, 1984-1993. | 1.5 | 24 |
| 65 | Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and β -Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. <i>Electroanalysis</i> , 2015, 27, 2412-2420. | 1.5 | 23 |
| 66 | 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. | 2.5 | 23 |
| 67 | An Ultrahigh Selective and Sensitive Enzyme-Free Hydrogen Peroxide Sensor Based on Palladium Nanoparticles and Nafion-Modified Electrode. <i>Electrocatalysis</i> , 2014, 5, 177-185. | 1.5 | 22 |
| 68 | Sonochemical synthesis and anchoring of zinc oxide on hemin-mediated multiwalled carbon nanotubes-cellulose nanocomposite for ultra-sensitive biosensing of H ₂ O ₂ . <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104917. | 3.8 | 20 |
| 69 | Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. <i>Electroanalysis</i> , 2015, 27, 1144-1151. | 1.5 | 19 |
| 70 | A robust nitrobenzene electrochemical sensor based on chitin hydrogel entrapped graphite composite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 663-668. | 2.7 | 19 |
| 71 | A simple and sensitive electroanalytical determination of anxiolytic buspirone hydrochloride drug based on multiwalled carbon nanotubes modified electrode. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 317-323. | 1.5 | 18 |
| 72 | A novel and Disposable Amperometric Hydrazine Sensor based on Polydimethyldiallylamine Stabilized Copper(II)hexacyanoferrate Nanocubes modified Screen-printed Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017, 12, 5567-5580. | 0.5 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | An Amperometric Biological Toxic Hydrazine Sensor Based on Multiwalled Carbon Nanotubes and Iron Tetrasulfonated Phthalocyanine Composite Modified Electrode. <i>Electroanalysis</i> , 2015, 27, 1403-1410. | 1.5 | 17 |
| 74 | A highly sensitive and selective electrochemical determination of Hg(ⁱⁱ) based on an electrochemically activated graphite modified screen-printed carbon electrode. <i>Analytical Methods</i> , 2014, 6, 8368-8373. | 1.3 | 16 |
| 75 | Sensitive and Low-potential Electrochemical Detection of Hydroquinone Using a Nanodiamond Modified Glassy Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017, 12, 8021-8032. | 0.5 | 15 |
| 76 | Hydrothermal Synthesis of Cr ₂ Se ₃ Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. <i>Scientific Reports</i> , 2018, 8, 4839. | 1.6 | 15 |
| 77 | Electrochemical Synthesis of PtAu Bimetallic Nanoparticles on Multiwalled Carbon Nanotubes and Application for Amperometric Determination of Nitrite. <i>International Journal of Electrochemical Science</i> , 0, , 4027-4036. | 0.5 | 12 |
| 78 | A Graphene/Gelatin Composite Material for the Entrapment of Hemoglobin for Bioelectrochemical Sensing Applications. <i>Journal of the Electrochemical Society</i> , 2016, 163, B265-B271. | 1.3 | 12 |
| 79 | Non-enzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with a composite consisting of chitosan-encapsulated graphite and platinum nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2861-2869. | 2.5 | 11 |
| 80 | Simultaneous Electrochemical Determination of Dopamine, Uric acid, Tryptophan on Electropolymerized Aminothiazole and Gold nanoparticles Modified Carbon nanotubes Modified Electrode. <i>International Journal of Electrochemical Science</i> , 0, , 2638-2649. | 0.5 | 9 |
| 81 | Facile preparation of a cellulose microfibrils-exfoliated graphite composite: a robust sensor for determining dopamine in biological samples. <i>Cellulose</i> , 2017, 24, 4291-4302. | 2.4 | 9 |
| 82 | A novel Amperometric Gallic acid Sensor based on Polymelamine entrapped Graphene Composite. <i>International Journal of Electrochemical Science</i> , 2017, , 4107-4119. | 0.5 | 7 |
| 83 | A novel non-enzymatic glucose sensor based on melamine supported CuO nanoflakes modified electrode. <i>Advanced Materials Letters</i> , 2017, 8, 852-856. | 0.3 | 6 |
| 84 | Wearable Technologies for Glucose Monitoring. <i>Advances in Web Technologies and Engineering Book Series</i> , 2019, , 106-121. | 0.4 | 1 |