

Selvakumar Palanisamy

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

3,482
citations

35
h-index

56
g-index

84
ext. papers

3,902
ext. citations

5.7
avg, IF

5.82
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 84 | One-pot sonochemical synthesis of CuS nanoplates decorated partially reduced graphene oxide for biosensing of dopamine neurotransmitter. <i>Ultrasonics Sonochemistry</i> , 2020 , 64, 105043 | 8.9 | 21 |
| 83 | 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 | 8.5 | 22 |
| 82 | 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 | 8.9 | 25 |
| 81 | 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 | 8.3 | 21 |
| 80 | Sonochemical synthesis and anchoring of zinc oxide on hemin-mediated multiwalled carbon nanotubes-cellulose nanocomposite for ultra-sensitive biosensing of HO. <i>Ultrasonics Sonochemistry</i> , 2020 , 63, 104917 | 8.9 | 14 |
| 79 | 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 | 6.7 | 32 |
| 78 | 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 | 3.7 | 30 |
| 77 | Sonochemical synthesis of gum guar biopolymer stabilized copper oxide on exfoliated graphite: Application for enhanced electrochemical detection of HO in milk and pharmaceutical samples. <i>Ultrasonics Sonochemistry</i> , 2019 , 56, 254-263 | 8.9 | 20 |
| 76 | Synthesis of Fe ₂ O 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 | 5.3 | 53 |
| 75 | Wearable Technologies for Glucose Monitoring. <i>Advances in Web Technologies and Engineering Book Series</i> , 2019 , 106-121 | 0.2 | 1 |
| 74 | 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 | 6.2 | 32 |
| 73 | 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 | 8.3 | 19 |
| 72 | Enhanced reversible redox activity of hemin on cellulose microfiber integrated reduced graphene oxide for HO biosensor applications. <i>Carbohydrate Polymers</i> , 2019 , 204, 152-160 | 10.3 | 26 |
| 71 | Hydrothermal Synthesis of CrSe Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. <i>Scientific Reports</i> , 2018 , 8, 4839 | 4.9 | 9 |
| 70 | 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 | 9.3 | 25 |
| 69 | 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 | 5.8 | 23 |
| 68 | 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 | 4.9 | 79 |

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| 67 | One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. <i>Scientific Reports</i> , 2017 , 7, 41213 | 4.9 | 50 |
| 66 | 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 | 8.5 | 22 |
| 65 | 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 | 4.1 | 43 |
| 64 | 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 | 8.5 | 66 |
| 63 | 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 | 9.3 | 29 |
| 62 | 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 | 4.1 | 30 |
| 61 | Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. <i>Scientific Reports</i> , 2017 , 7, 14182 | 4.9 | 50 |
| 60 | A novel Amperometric Gallic acid Sensor based on Polymelamine entrapped Graphene Composite. <i>International Journal of Electrochemical Science</i> , 2017 , 4107-4119 | 2.2 | 4 |
| 59 | Sensitive and Low-potential Electrochemical Detection of Hydroquinone Using a Nanodiamond Modified Glassy Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017 , 8021-8032 | 2.2 | 12 |
| 58 | 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 , 5567-5580 | 2.2 | 9 |
| 57 | 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 | 5.3 | 10 |
| 56 | Facile preparation of a cellulose microfibers/β-cyclodextrin modified graphite composite: a robust sensor for determining dopamine in biological samples. <i>Cellulose</i> , 2017 , 24, 4291-4302 | 5.5 | 8 |
| 55 | 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 | 9.3 | 55 |
| 54 | A Novel Non-Enzymatic Glucose Sensor Based On Melamine Supported CuO Nanoflakes Modified Electrode. <i>Advanced Materials Letters</i> , 2017 , 8, 852-856 | 2.4 | 4 |
| 53 | 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, 375-81 | 9.3 | 50 |
| 52 | 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 | 5.8 | 10 |
| 51 | 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 | 4.9 | 37 |
| 50 | 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, 413-20 | 9.3 | 44 |

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| 49 | Alumina Polished Glassy Carbon Electrode as a Simple Electrode for Lower Potential Electrochemical Detection of Dopamine in its Sub-micromolar Level. <i>Electroanalysis</i> , 2016 , 28, 425-430 | 3 | 20 |
| 48 | 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 | 4-1 | 54 |
| 47 | 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 | 9-3 | 24 |
| 46 | Preparation of β -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. <i>Carbohydrate Polymers</i> , 2016 , 135, 267-73 | 10-3 | 46 |
| 45 | 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> , 2016 , 2638-2649 | 2-2 | 7 |
| 44 | Electrochemical Synthesis of PtAu Bimetallic Nanoparticles on Multiwalled Carbon Nanotubes and Application for Amperometric Determination of Nitrite. <i>International Journal of Electrochemical Science</i> , 2016 , 4027-4036 | 2-2 | 11 |
| 43 | 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 | 3-7 | 23 |
| 42 | 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 | 3-9 | 36 |
| 41 | Preparation of chitosan grafted graphite composite for sensitive detection of dopamine in biological samples. <i>Carbohydrate Polymers</i> , 2016 , 151, 401-407 | 10-3 | 39 |
| 40 | 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 | 5-8 | 19 |
| 39 | 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 | 3-9 | 10 |
| 38 | 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 | 8-5 | 62 |
| 37 | 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 | 9-3 | 22 |
| 36 | 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 | 9-3 | 25 |
| 35 | 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 | 3-7 | 36 |
| 34 | 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, 374-9 | 8-3 | 82 |
| 33 | 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 | 10 | 13 |
| 32 | 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 | 3-7 | 56 |

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| 31 | 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 | 3.7 | 21 |
| 30 | 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 | 3.7 | 44 |
| 29 | Carboxyl-functionalized graphene oxide-modified electrode for the electrochemical determination of nonsteroidal anti-inflammatory drug diclofenac. <i>Ionics</i> , 2015 , 21, 231-238 | 2.7 | 49 |
| 28 | 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 | 3 | 21 |
| 27 | 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 | 2.7 | 17 |
| 26 | Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. <i>Electroanalysis</i> , 2015 , 27, 1144-1151 | 3.1 | 13 |
| 25 | 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 | 3 | 29 |
| 24 | 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 | 3.7 | 23 |
| 23 | 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, 251-6 | 9.3 | 62 |
| 22 | 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 | 3.7 | 22 |
| 21 | 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, 164-9 | 6 | 110 |
| 20 | Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1847-1854 | 2.6 | 50 |
| 19 | 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 | 3.2 | 11 |
| 18 | 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 | 3.2 | 34 |
| 17 | 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 | 6.7 | 82 |
| 16 | Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. <i>Journal of Hazardous Materials</i> , 2014 , 279, 117-24 | 12.8 | 112 |
| 15 | 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 | 5.8 | 35 |
| 14 | 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 | 2.7 | 17 |

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| 13 | 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, 207-13 | 8.3 | 73 |
| 12 | 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 | 8.5 | 112 |
| 11 | 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 | 4.1 | 36 |
| 10 | 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 | 8.5 | 41 |
| 9 | 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 | 4.1 | 21 |
| 8 | 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 | 3 | 18 |
| 7 | 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 | 2.6 | 12 |
| 6 | 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 | 5.8 | 138 |
| 5 | 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, 182-6 | 9.3 | 73 |
| 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 | 6.2 | 130 |
| 3 | A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 70-5 | 11.8 | 285 |
| 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 | 8.5 | 161 |
| 1 | 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 | 3.1 | 60 |