Selvakumar Palanisamy

List of Publications by Citations

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	A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. *Biosensors and Bioelectronics*, **2013**, 39, 70-5	11.8	285
83	A novel nonenzymatic hydrogen peroxide sensor based on reduced graphene oxide/ZnO composite modified electrode. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 372-377	8.5	161
82	Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. *Mikrochimica Acta*, **2013**, 180, 1037-1042	5.8	138
81	Simultaneous electrochemical determination of dopamine and paracetamol on multiwalled carbon nanotubes/graphene oxide nanocomposite-modified glassy carbon electrode. *Talanta*, **2013**, 117, 297-304	6.2	130
80	Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. *Journal of Hazardous Materials*, **2014**, 279, 117-24	12.8	112
79	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. *Sensors and Actuators B: Chemical*, **2014**, 196, 450-456	8.5	112
78	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. *Colloids and Surfaces B: Biointerfaces*, **2014**, 114, 164-9	6	110
77	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. *Materials Science and Engineering C*, **2015**, 56, 374-9	8.3	82
76	A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. *Electrochimica Acta*, **2014**, 139, 157-164	6.7	82
75	A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. *Scientific Reports*, **2017**, 7, 41214	4.9	79
74	Amperometric glucose biosensor based on glucose oxidase dispersed in multiwalled carbon nanotubes/graphene oxide hybrid biocomposite. *Materials Science and Engineering C*, **2014**, 34, 207-13	8.3	73
73	Highly selective dopamine electrochemical sensor based on electrochemically pretreated graphite and nafion composite modified screen printed carbon electrode. *Journal of Colloid and Interface Science*, **2013**, 411, 182-6	9.3	73
72	Synthesis and characterization of polypyrrole decorated graphene/β-cyclodextrin composite for low level electrochemical detection of mercury (II) in water. *Sensors and Actuators B: Chemical*, **2017**, 243, 888-894	8.5	66
71	Palladium nanoparticles decorated on activated fullerene modified screen printed carbon electrode for enhanced electrochemical sensing of dopamine. *Journal of Colloid and Interface Science*, **2015**, 448, 251-6	9.3	62
70	Preparation and characterization of gold nanoparticles decorated on graphene oxide@polydopamine composite: Application for sensitive and low potential detection of catechol. *Sensors and Actuators B: Chemical*, **2016**, 233, 298-306	8.5	62
69	Highly sensitive and selective hydrogen peroxide biosensor based on hemoglobin immobilized at multiwalled carbon nanotubes-zinc oxide composite electrode. *Analytical Biochemistry*, **2012**, 429, 108-15	3.1	60
68	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. *RSC Advances*, **2015**, 5, 31139-31146	3.7	56

67	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. *Journal of Colloid and Interface Science*, **2017**, 487, 370-377	9.3	55
66	A novel amperometric nitrite sensor based on screen printed carbon electrode modified with graphite/Ecyclodextrin composite. *Journal of Electroanalytical Chemistry*, **2016**, 760, 97-104	4.1	54
65	Synthesis of Fe2O3 decorated g-C3N4/ZnO ternary Z-scheme photocatalyst for degradation of tartrazine dye in aqueous media. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 99, 258-267	5.3	53
64	Preparation of highly stable fullerene C60 decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. *Journal of Colloid and Interface Science*, **2016**, 462, 375-81	9.3	50
63	One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. *Scientific Reports*, **2017**, 7, 41213	4.9	50
62	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. *Scientific Reports*, **2017**, 7, 14182	4.9	50
61	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. *Journal of Solid State Electrochemistry*, **2014**, 18, 1847-1854	2.6	50
60	Carboxyl-functionalized graphene oxide-modified electrode for the electrochemical determination of nonsteroidal anti-inflammatory drug diclofenac. *Ionics*, **2015**, 21, 231-238	2.7	49
59	Preparation of Ecyclodextrin entrapped graphite composite for sensitive detection of dopamine. *Carbohydrate Polymers*, **2016**, 135, 267-73	10.3	46
58	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. *RSC Advances*, **2015**, 5, 77651-77657	3.7	44
57	Amperometric detection of nitrite in water samples by use of electrodes consisting of palladium-nanoparticle-functionalized multi-walled carbon nanotubes. *Journal of Colloid and Interface Science*, **2016**, 478, 413-20	9.3	44
56	Voltammetric determination of Sudan I in food samples based on platinum nanoparticles decorated on graphene-Ecyclodextrin modified electrode. *Journal of Electroanalytical Chemistry*, **2017**, 794, 64-70	4.1	43
55	Direct electrochemistry of myoglobin at silver nanoparticles/myoglobin biocomposite: Application for hydrogen peroxide sensing. *Sensors and Actuators B: Chemical*, **2014**, 202, 177-184	8.5	41
54	Preparation of chitosan grafted graphite composite for sensitive detection of dopamine in biological samples. *Carbohydrate Polymers*, **2016**, 151, 401-407	10.3	39
53	A Facile Electrochemical Preparation of Reduced Graphene Oxide@Polydopamine Composite: A Novel Electrochemical Sensing Platform for Amperometric Detection of Chlorpromazine. *Scientific Reports*, **2016**, 6, 33599	4.9	37
52	A sensitive and selective enzyme-free amperometric glucose biosensor using a composite from multi-walled carbon nanotubes and cobalt phthalocyanine. *RSC Advances*, **2015**, 5, 26762-26768	3.7	36
51	Highly sensitive and selective amperometric nitrite sensor based on electrochemically activated graphite modified screen printed carbon electrode. *Journal of Electroanalytical Chemistry*, **2014**, 727, 34-38	4.1	36
50	Electrochemical Determination of Caffeic Acid in Wine Samples Using Reduced Graphene Oxide/Polydopamine Composite. *Journal of the Electrochemical Society*, **2016**, 163, B726-B731	3.9	36

49	Direct electrochemistry of glucose oxidase and sensing glucose using a screen-printed carbon electrode modified with graphite nanosheets and zinc oxide nanoparticles. *Mikrochimica Acta*, **2014** , 181, 1843-1850	5.8	35
48	Simultaneous and selective electrochemical determination of dihydroxybenzene isomers at a reduced graphene oxide and copper nanoparticles composite modified glassy carbon electrode. *Analytical Methods*, **2014**, 6, 4271-4278	3.2	34
47	Novel electrochemical synthesis of cellulose microfiber entrapped reduced graphene oxide: A sensitive electrochemical assay for detection of fenitrothion organophosphorus pesticide. *Talanta*, **2019**, 192, 471-477	6.2	32
46	Synthesis of novel and environmental sustainable AgI-Ag2S nanospheres impregnated g-C3N4 photocatalyst for efficient degradation of aqueous pollutants. *Applied Surface Science*, **2020**, 500, 143991	6.7	32
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. *Journal of Electroanalytical Chemistry*, **2017**, 785, 40-47	4.1	30
44	Synthesis of boron doped C3N4/NiFe2O4 nanocomposite: An enhanced visible light photocatalyst for the degradation of methylene blue. *Results in Physics*, **2019**, 12, 1238-1244	3.7	30
43	One pot electrochemical synthesis of poly(melamine) entrapped gold nanoparticles composite for sensitive and low level detection of catechol. *Journal of Colloid and Interface Science*, **2017**, 496, 364-370	9.3	29
42	Fabrication of Silver Nanoparticles Decorated on Activated Screen Printed Carbon Electrode and Its Application for Ultrasensitive Detection of Dopamine. *Electroanalysis*, **2015**, 27, 1998-2006	3	29
41	Enhanced reversible redox activity of hemin on cellulose microfiber integrated reduced graphene oxide for HO biosensor applications. *Carbohydrate Polymers*, **2019**, 204, 152-160	10.3	26
40	Ultrasonic assisted functionalization of MWCNT and synergistic electrocatalytic effect of nano-hydroxyapatite incorporated MWCNT-chitosan scaffolds for sensing of nitrofurantoin. *Ultrasonics Sonochemistry*, **2020**, 62, 104863	8.9	25
39	Mesoporous transition metal oxides quasi-nanospheres with enhanced electrochemical properties for supercapacitor applications. *Journal of Colloid and Interface Science*, **2016**, 483, 73-83	9.3	25
38	Novel electrochemical synthesis of copper oxide nanoparticles decorated graphene-□cyclodextrin composite for trace-level detection of antibiotic drug metronidazole. *Journal of Colloid and Interface Science*, **2018**, 530, 37-45	9.3	25
37	Non-enzymatic amperometric detection of hydrogen peroxide in human blood serum samples using a modified silver nanowire electrode. *Journal of Colloid and Interface Science*, **2016**, 470, 117-122	9.3	24
36	Voltammetric determination of catechol based on a glassy carbon electrode modified with a composite consisting of graphene oxide and polymelamine. *Mikrochimica Acta*, **2017**, 184, 1051-1057	5.8	23
35	An electrochemical facile fabrication of platinum nanoparticle decorated reduced graphene oxide; application for enhanced electrochemical sensing of H2O2. *RSC Advances*, **2015**, 5, 105567-105573	3.7	23
34	Novel electrochemical preparation of gold nanoparticles decorated on a reduced graphene oxide□fullerene composite for the highly sensitive electrochemical detection of nitrite. *RSC Advances*, **2016**, 6, 68798-68805	3.7	23
33	Graphene dispersed cellulose microfibers composite for efficient immobilization of hemoglobin and selective biosensor for detection of hydrogen peroxide. *Sensors and Actuators B: Chemical*, **2017**, 252, 175-182	8.5	22
32	Single-crystalline SnS2 nano-hexagons based non-enzymatic electrochemical sensor for detection of carcinogenic nitrite in food samples. *Sensors and Actuators B: Chemical*, **2020**, 316, 128106	8.5	22

31	Green synthesis of gold nanoparticles and its application for the trace level determination of painterś colic. *RSC Advances*, **2015**, 5, 16284-16291	3.7	22
30	A simple electrochemical platform for detection of nitrobenzene in water samples using an alumina polished glassy carbon electrode. *Journal of Colloid and Interface Science*, **2016**, 475, 154-160	9.3	22
29	Electrochemical fabrication of gold nanoparticles decorated on activated fullerene C60: an enhanced sensing platform for trace level detection of toxic hydrazine in water samples. *RSC Advances*, **2015**, 5, 94591-94598	3.7	21
28	One-pot sonochemical synthesis of CuS nanoplates decorated partially reduced graphene oxide for biosensing of dopamine neurotransmitter. *Ultrasonics Sonochemistry*, **2020**, 64, 105043	8.9	21
27	Fabrication of Nickel Tetrasulfonated Phthalocyanine Functionalized Multiwalled Carbon Nanotubes on Activated Glassy Carbon Electrode for the Detection of Dopamine. *Electroanalysis*, **2015**, 27, 485-493	3	21
26	A low temperature synthesis of activated carbon from the bio waste for simultaneous electrochemical determination of hydroquinone and catechol. *Journal of Electroanalytical Chemistry* , **2014**, 727, 84-90	4.1	21
25	Tin disulfide nanorod-graphene-□cyclodextrin nanocomposites for sensing dopamine in rat brains and human blood serum. *Materials Science and Engineering C*, **2020**, 108, 110367	8.3	21
24	Sonochemical synthesis of gum guar biopolymer stabilized copper oxide on exfoliated graphite: Application for enhanced electrochemical detection of HO in milk and pharmaceutical samples. *Ultrasonics Sonochemistry*, **2019**, 56, 254-263	8.9	20
23	Alumina Polished Glassy Carbon Electrode as a Simple Electrode for Lower Potential Electrochemical Detection of Dopamine in its Sub-micromolar Level. *Electroanalysis*, **2016**, 28, 425-430	3	20
22	Direct electrochemistry of immobilized hemoglobin and sensing of bromate at a glassy carbon electrode modified with graphene and □cyclodextrin. *Mikrochimica Acta*, **2016**, 183, 1953-1961	5.8	19
21	Facile synthesis of cellulose microfibers supported palladium nanospindles on graphene oxide for selective detection of dopamine in pharmaceutical and biological samples. *Materials Science and Engineering C*, **2019**, 98, 256-265	8.3	19
20	A Highly Sensitive and Selective Enzymatic Biosensor Based on Direct Electrochemistry of Hemoglobin at Zinc Oxide Nanoparticles Modified Activated Screen Printed Carbon Electrode. *Electroanalysis*, **2014**, 26, 1984-1993	3	18
19	An Ultrahigh Selective and Sensitive Enzyme-Free Hydrogen Peroxide Sensor Based on Palladium Nanoparticles and Nafion-Modified Electrode. *Electrocatalysis*, **2014**, 5, 177-185	2.7	17
18	Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and □Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. *Electroanalysis*, **2015**, 27, 2412-2420	3	17
17	Sonochemical synthesis and anchoring of zinc oxide on hemin-mediated multiwalled carbon nanotubes-cellulose nanocomposite for ultra-sensitive biosensing of HO. *Ultrasonics Sonochemistry*, **2020**, 63, 104917	8.9	14
16	An Amperometric Biological Toxic Hydrazine Sensor Based on Multiwalled Carbon Nanotubes and Iron Tetrasulfonated Phthalocyanine Composite Modified Electrode. *Electroanalysis*, **2015**, 27, 1403-1410	3	13
15	Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. *Electroanalysis*, **2015**, 27, 1144-1151	3	13
14	Sensitive and Low-potential Electrochemical Detection of Hydroquinone Using a Nanodiamond Modified Glassy Carbon Electrode. *International Journal of Electrochemical Science*, **2017**, 8021-8032	2.2	12

13	A simple and sensitive electroanalytical determination of anxiolytic buspirone hydrochloride drug based on multiwalled carbon nanotubes modified electrode. *Journal of Applied Electrochemistry*, **2014**, 44, 317-323	2.6	12
12	A highly sensitive and selective electrochemical determination of Hg(II) based on an electrochemically activated graphite modified screen-printed carbon electrode. *Analytical Methods*, **2014**, 6, 8368-8373	3.2	11
11	Electrochemical Synthesis of PtAu Bimetallic Nanoparticles on Multiwalled Carbon Nanotubes and Application for Amperometric Determination of Nitrite. *International Journal of Electrochemical Science*, **2016**, 4027-4036	2.2	11
10	Non-enzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with a composite consisting of chitosan-encapsulated graphite and platinum nanoparticles. *Mikrochimica Acta*, **2016**, 183, 2861-2869	5.8	10
9	A robust nitrobenzene electrochemical sensor based on chitin hydrogel entrapped graphite composite. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 80, 663-668	5.3	10
8	A Graphene/Gelatin Composite Material for the Entrapment of Hemoglobin for Bioelectrochemical Sensing Applications. *Journal of the Electrochemical Society*, **2016**, 163, B265-B271	3.9	10
7	A novel and Disposable Amperometric Hydrazine Sensor based on Polydimethyldiallylamine Stabilized Copper(II)hexacyanoferrate Nanocubes modified Screen- printed Carbon Electrode. *International Journal of Electrochemical Science*, **2017**, 5567-5580	2.2	9
6	Hydrothermal Synthesis of CrSe Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. *Scientific Reports*, **2018**, 8, 4839	4.9	9
5	Facile preparation of a cellulose microfibers/exfoliated graphite composite: a robust sensor for determining dopamine in biological samples. *Cellulose*, **2017**, 24, 4291-4302	5.5	8
4	Simultaneous Electrochemical Determination of Dopamine, Uric acid, Tryptophan on Electropolymerized Aminothiazole and Gold nanoparticles Modified Carbon nanotubes Modified Electrode. *International Journal of Electrochemical Science*, **2016**, 2638-2649	2.2	7
3	A novel Amperometric Gallic acid Sensor based on Polymelamine entrapped Graphene Composite. *International Journal of Electrochemical Science*, **2017**, 4107-4119	2.2	4
2	A Novel Non-Enzymatic Glucose Sensor Based On Melamine Supported CuO Nanoflakes Modified Electrode. *Advanced Materials Letters*, **2017**, 8, 852-856	2.4	4
1	Wearable Technologies for Glucose Monitoring. *Advances in Web Technologies and Engineering Book Series*, **2019**, 106-121	0.2	1