

Rajkumar Devasenathipathy

List of Publications by Year in descending order

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41
papers

1,472
citations

331670

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docs citations

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times ranked

2088
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#	ARTICLE	IF	CITATIONS
1	Plasmonic Photoelectrochemical Coupling Reactions of <i>p</i> -Aminobenzoic Acid on Nanostructured Gold Electrodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 3821-3832.	13.7	17
2	Plasmonic photoelectrochemical reactions on noble metal electrodes of nanostructures. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 100985.	4.8	4
3	Plasmon mediated photoelectrochemical transformations: The example of <i>para</i> -aminothiophenol. <i>Electrochimica Acta</i> , 2021, 367, 137485.	5.2	8
4	Plasmonic photoelectrochemical dimerization and reduction of <i>p</i> -halo-nitrobenzene on AgNPs@Ag electrode. <i>Electrochimica Acta</i> , 2021, 389, 138695.	5.2	4
5	Electrochemical and Plasmonic Photochemical Oxidation Processes of <i>p</i> -Aminothiophenol on a Nanostructured Gold Electrode. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24849-24858.	3.1	9
6	Plasmonic Hot Electron-Mediated Hydrodehalogenation Kinetics on Nanostructured Ag Electrodes. <i>Journal of the American Chemical Society</i> , 2020, 142, 17489-17498.	13.7	49
7	Direct pyrolysis and ultrasound assisted preparation of N, S co-doped graphene/Fe ₃ C nanocomposite as an efficient electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 105111.	8.2	27
8	Adsorption, Chemical Enhancement, and Low-Lying Excited States of <i>p</i> -Methylbenzenethiol on Silver and Gold Nanoparticle Surfaces: A Surface Enhanced Raman Spectroscopy and Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23026-23036.	3.1	19
9	Simple preparation of gold nanoparticle-decorated copper cross-linked pectin for the sensitive determination of hydrogen peroxide. <i>Ionics</i> , 2019, 25, 309-317.	2.4	5
10	Copper Nanoparticle and Nitrogen Doped Graphite Oxide Based Biosensor for the Sensitive Determination of Glucose. <i>Nanomaterials</i> , 2018, 8, 429.	4.1	19
11	Characteristics of Honeycomb-Type Oxygen Generator with Electrolyte Based on Doped Bismuth Oxide. <i>Journal of Electronic Materials</i> , 2018, 47, 3639-3646.	2.2	5
12	Preparation of Co-MOF derived Co(OH) ₂ /multiwalled carbon nanotubes as an efficient bifunctional electro catalyst for hydrazine and hydrogen peroxide detections. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 79-86.	5.3	22
13	A glassy carbon electrode modified with graphene oxide decorated silver phosphate nanodendrites for amperometric determination of dissolved hydrazine. <i>Mikrochimica Acta</i> , 2017, 184, 2569-2577.	5.0	13
14	Simple electrochemical growth of copper nanoparticles decorated silver nanoleaves for the sensitive determination of hydrogen peroxide in clinical lens cleaning solutions. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 862-869.	7.8	27
15	Simple preparation of birnessite-type MnO ₂ nanoflakes with multi-walled carbon nanotubes for the sensitive detection of hydrogen peroxide. <i>Ionics</i> , 2017, 23, 3219-3226.	2.4	12
16	Highly Sensitive Hydrazine Sensor Based on Co(OH) ₂ Nanoflakes Electrochemically Deposited on MWCNTs. <i>Electroanalysis</i> , 2017, 29, 1088-1094.	2.9	7
17	Facile Synthesis of Graphene/Cobalt Oxide Nanohexagons for the Selective Detection of Dopamine. <i>Electroanalysis</i> , 2017, 29, 923-928.	2.9	5
18	Molybdenum disulfide nanosheets coated multiwalled carbon nanotubes composite for highly sensitive determination of chloramphenicol in food samples milk, honey and powdered milk. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 129-136.	9.4	153

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19	A New Route for the Enzymeless Trace Level Detection of Creatinine Based on Reduced Graphene Oxide/Silver Nanocomposite Biosensor. <i>Electroanalysis</i> , 2017, 29, 559-565.	2.9	24
20	Electrochemical Activation of Graphite Nanosheets Decorated with Palladium Nanoparticles for High Performance Amperometric Hydrazine Sensor. <i>Electroanalysis</i> , 2016, 28, 808-816.	2.9	19
21	Electrochemical Synthesis of β -Cyclodextrin Functionalized Silver Nanoparticles and Reduced Graphene Oxide Composite for the Determination of Hydrazine. <i>Electroanalysis</i> , 2016, 28, 1970-1976.	2.9	18
22	Electropolymerization of cobalt tetraamino-phthalocyanine at reduced graphene oxide for electrochemical determination of cysteine and hydrazine. <i>RSC Advances</i> , 2016, 6, 38463-38469.	3.6	33
23	Green synthesized gold nanoparticles decorated graphene oxide for sensitive determination of chloramphenicol in milk, powdered milk, honey and eye drops. <i>Journal of Colloid and Interface Science</i> , 2016, 475, 46-56.	9.4	129
24	Femtomolar detection of mercuric ions using polypyrrole, pectin and graphene nanocomposites modified electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 268-274.	9.4	35
25	A Facile Chemical Synthesis of Cu_2O Nanocubes Covered with Co_3O_4 Nanohexagons for the Sensitive Detection of Glucose. <i>Electroanalysis</i> , 2016, 28, 1547-1552.	2.9	16
26	Electrochemical preparation of biomolecule stabilized copper nanoparticles decorated reduced graphene oxide for the sensitive and selective determination of hydrogen peroxide. <i>Electrochimica Acta</i> , 2016, 191, 55-61.	5.2	18
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.	2.9	23
28	Potentiostatic Electrochemical Preparation of Bismuth Nanoribbons and its Application in Biologically Poisoning Lead and Cadmium Heavy Metal Ions Detection. <i>Electroanalysis</i> , 2015, 27, 2341-2346.	2.9	8
29	High-performance electrochemical amperometric sensors for the sensitive determination of phenyl urea herbicides diuron and fenuron. <i>Ionics</i> , 2015, 21, 2675-2683.	2.4	35
30	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.	3.6	46
31	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <i>Mikrochimica Acta</i> , 2015, 182, 2165-2172.	5.0	16
32	A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole. <i>Analyst</i> , 2015, 140, 5764-5771.	3.5	24
33	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. <i>Enzyme and Microbial Technology</i> , 2015, 78, 40-45.	3.2	114
34	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.	2.9	17
35	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. <i>Electrochimica Acta</i> , 2015, 176, 804-810.	5.2	101
36	Highly selective determination of cysteine using a composite prepared from multiwalled carbon nanotubes and gold nanoparticles stabilized with calcium crosslinked pectin. <i>Mikrochimica Acta</i> , 2015, 182, 727-735.	5.0	37

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37	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. <i>Renewable Energy</i> , 2015, 74, 867-874.	8.9	56
38	Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. <i>Enzyme and Microbial Technology</i> , 2014, 66, 60-66.	3.2	62
39	Highly stable and sensitive amperometric sensor for the determination of trace level hydrazine at cross linked pectin stabilized gold nanoparticles decorated graphene nanosheets. <i>Electrochimica Acta</i> , 2014, 135, 260-269.	5.2	85
40	Highly selective amperometric sensor for the trace level detection of hydrazine at bismuth nanoparticles decorated graphene nanosheets modified electrode. <i>Talanta</i> , 2014, 124, 43-51.	5.5	112
41	Electrodeposition of gold nanoparticles on a pectin scaffold and its electrocatalytic application in the selective determination of dopamine. <i>RSC Advances</i> , 2014, 4, 55900-55907.	3.6	39