

Murugan Veerapandian

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,433
citations

201385

27
h-index

118652

62
g-index

68
all docs

68
docs citations

68
times ranked

7694
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemical and structural analysis of graphene oxide with different degrees of oxidation. Carbon, 2013, 53, 38-49.	5.4	1,549
2	Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. Journal of Physical Chemistry C, 2012, 116, 17280-17287.	1.5	377
3	Investigation of Raman and photoluminescence studies of reduced graphene oxide sheets. Applied Physics A: Materials Science and Processing, 2012, 106, 501-506.	1.1	279
4	Nanoparticles: Functionalization and Multifunctional Applications in Biomedical Sciences. Current Medicinal Chemistry, 2010, 17, 4559-4577.	1.2	261
5	Graphene-based nanocomposites for sensitivity enhancement of surface plasmon resonance sensor for biological and chemical sensing: A review. Biosensors and Bioelectronics, 2019, 139, 111324.	5.3	155
6	Synthesis, characterization and electrochemical properties of functionalized graphene oxide. Carbon, 2012, 50, 4228-4238.	5.4	143
7	Functionalization of biomolecules on nanoparticles: specialized for antibacterial applications. Applied Microbiology and Biotechnology, 2011, 90, 1655-1667.	1.7	121
8	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. Talanta, 2017, 162, 574-582.	2.9	107
9	Low cost, catalyst free, high performance supercapacitors based on porous nano carbon derived from agriculture waste. Journal of Energy Storage, 2020, 32, 101829.	3.9	81
10	New function of molybdenum trioxide nanoplates: Toxicity towards pathogenic bacteria through membrane stress. Colloids and Surfaces B: Biointerfaces, 2013, 112, 521-524.	2.5	74
11	Nanostructured molybdenum oxide-based antibacterial paint: effective growth inhibition of various pathogenic bacteria. Nanotechnology, 2014, 25, 315101.	1.3	73
12	Glucosamine-functionalized silver glyconanoparticles: characterization and antibacterial activity. Analytical and Bioanalytical Chemistry, 2010, 398, 867-876.	1.9	71
13	Dual immunosensor based on methylene blue-electroadsorbed graphene oxide for rapid detection of the influenza A virus antigen. Talanta, 2016, 155, 250-257.	2.9	71
14	Surface activation of graphene oxide nanosheets by ultraviolet irradiation for highly efficient anti-bacterials. Nanotechnology, 2013, 24, 395706.	1.3	64
15	Graphene oxide functionalized with silver@silica-polyethylene glycol hybrid nanoparticles for direct electrochemical detection of quercetin. Biosensors and Bioelectronics, 2014, 58, 200-204.	5.3	64
16	Glucosamine functionalized copper nanoparticles: Preparation, characterization and enhancement of anti-bacterial activity by ultraviolet irradiation. Chemical Engineering Journal, 2012, 209, 558-567.	6.6	62
17	Biogenic synthesis of multidimensional gold nanoparticles assisted by Streptomyces hygroscopicus and its electrochemical and antibacterial properties. BioMetals, 2012, 25, 351-360.	1.8	59
18	Surface chemistry of cerium oxide nanocubes: Toxicity against pathogenic bacteria and their mechanistic study. Journal of Industrial and Engineering Chemistry, 2014, 20, 3513-3517.	2.9	56

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19	Functionalized graphene oxide for clinical glucose biosensing in urine and serum samples. <i>International Journal of Nanomedicine</i> , 2012, 7, 6123.	3.3	46
20	Magnetic bead-amplified voltammetric detection for carbohydrate antigen 125 with enzyme labels using aptamer-antigen-antibody sandwiched assay. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127985.	4.0	38
21	Graphene oxide chemically decorated with Ag@Ru/chitosan nanoparticles: fabrication, electrode processing and immunosensing properties. <i>RSC Advances</i> , 2015, 5, 75015-75024.	1.7	37
22	Electrochemical sensing platform for the determination of arsenite and arsenate using electroactive nanocomposite electrode. <i>Chemical Engineering Journal</i> , 2018, 351, 319-327.	6.6	37
23	Amygdalin-Functionalized Carbon Quantum Dots for Probing β -Glucosidase Activity for Cancer Diagnosis and Therapeutics. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3089-3099.	2.6	36
24	Glucosamine-Anchored Graphene Oxide Nanosheets: Fabrication, Ultraviolet Irradiation, and Electrochemical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14552-14556.	4.0	33
25	Opto-electrochemical functionality of Ru(II)-reinforced graphene oxide nanosheets for immunosensing of dengue virus non-structural 1 protein. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111878.	5.3	31
26	Sodium functionalized graphene oxide coated titanium plates for improved corrosion resistance and cell viability. <i>Applied Surface Science</i> , 2014, 293, 124-131.	3.1	30
27	Copper-Glucosamine Microcubes: Synthesis, Characterization, and C-Reactive Protein Detection. <i>Langmuir</i> , 2011, 27, 8934-8942.	1.6	28
28	A One Step Hydrothermal Approach for the Improved Synthesis of Graphene Nanosheets. <i>Current Nanoscience</i> , 2012, 8, 934-938.	0.7	28
29	Lipoxygenase-modified Ru-bpy/graphene oxide: Electrochemical biosensor for on-farm monitoring of non-esterified fatty acid. <i>Biosensors and Bioelectronics</i> , 2016, 78, 253-258.	5.3	26
30	Amperometric determination of As(III) and Cd(II) using a platinum electrode modified with acetylcholinesterase, ruthenium(II)-tris(bipyridine) and graphene oxide. <i>Mikrochimica Acta</i> , 2018, 185, 297.	2.5	24
31	PEGylated polyethyleneimine grafted silica nanoparticles: enhanced cellular uptake and efficient siRNA delivery. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 535-545.	1.9	23
32	In-situ redox-active hybrid graphene platform for label-free electrochemical biosensor: Insights from electrodeposition and electroless deposition. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116413.	5.8	22
33	Ruthenium dye sensitized graphene oxide electrode for on-farm rapid detection of beta-hydroxybutyrate. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 180-184.	4.0	21
34	Insights from a Pan India Sero-Epidemiological survey (Phenome-India Cohort) for SARS-CoV2. <i>ELife</i> , 2021, 10, .	2.8	21
35	Structural and biological evaluation of a multifunctional SWCNT-AgNPs-DNA/PVA bio-nanofilm. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 547-560.	1.9	20
36	Methylene Blue-Fortified Molybdenum Trioxide Nanoparticles: Harnessing Radical Scavenging Property. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43429-43438.	4.0	18

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37	Reusable urine glucose sensor based on functionalized graphene oxide conjugated Au electrode with protective layers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2014, 3, 49-53.	2.1	15
38	Impact of aminated carbon quantum dots as a novel co-reactant for Ru(bpy) ₃ ²⁺ : resolving specific electrochemiluminescence for butein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 539-546.	1.9	15
39	Ruthenium bipyridine sensitized MoO ₃ multifunctional nanostructures: Study of opto-electrochemical properties, biocompatibility and bioimaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 315-320.	2.5	14
40	RF magnetron sputtering mediated NiTi/Ag coating on Ti-alloy substrate with enhanced biocompatibility and durability. <i>Materials Science and Engineering C</i> , 2019, 99, 304-314.	3.8	14
41	Ultrasonochemically Conjugated Metalloid/Triblock Copolymer Nanocomposite and Subsequent Thin Solid Laminate Growth for Surface and Interface Studies. <i>Langmuir</i> , 2010, 26, 14216-14222.	1.6	13
42	Metalloid polymer nanoparticle functionalized graphene oxide working electrode for durable glucose sensing. <i>Materials Research Bulletin</i> , 2014, 49, 593-600.	2.7	13
43	Nitrogenated-carbon nanoelectrocatalyst adventerently processed from bio-waste of <i>Allium sativum</i> for oxygen reduction reaction. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 343-352.	5.3	13
44	Chemically synthesized butein and butin: Optical, structure and electrochemical redox functionality at electrode interface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 182, 122-129.	1.7	12
45	Electrochemical Tracing of Butein Using Carbon Nanoparticles Interfaced Electrode Processed from Biowaste. <i>Electroanalysis</i> , 2020, 32, 1220-1225.	1.5	11
46	Ultrasonochemical-assisted fabrication and evaporation-induced self-assembly (EISA) of POSS@SiO ₂ @Ag core/ABA triblock copolymer nanocomposite film. <i>Polymer Composites</i> , 2010, 31, 1620-1627.	2.3	10
47	Triad CNT-NPs/Polymer Nanocomposites: Fabrication, Characterization, and Preliminary Antimicrobial Study. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 345-355.	0.6	10
48	Methylene blue dye coated silver-silica nanoparticles with dual functionality fabricated by injection pump and ultrasonochemistry. <i>Materials Research Bulletin</i> , 2013, 48, 1817-1823.	2.7	10
49	State-of-Art Bio-Assay Systems and Electrochemical Approaches for Nanotoxicity Assessment. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 325.	2.0	10
50	Electrochemical properties of Rubpy-reduced graphene oxide synergized by ultrasonication for label-free quercetin sensing. <i>Applied Surface Science</i> , 2021, 537, 147777.	3.1	10
51	Chitosan-modified silver@ruthenium hybrid nanoparticles: evaluation of physico-chemical properties and bio-affinity with sialic acid. <i>Journal of Materials Chemistry B</i> , 2015, 3, 665-672.	2.9	9
52	Analytical and biological characterization of quinazoline semicarbazone derivatives. <i>Medicinal Chemistry Research</i> , 2010, 19, 283-298.	1.1	8
53	Chitosanylated MoO ₃ -Ruthenium(II) Nanocomposite as Biocompatible Probe for Bioimaging and Herbaceutical Detection. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3606-3617.	2.6	8
54	Chitosan grafted butein: A metal-free transducer for electrochemical genosensing of exosomal CD24. <i>Carbohydrate Polymers</i> , 2021, 269, 118333.	5.1	8

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55	Electrochemical and DFT studies of andrographolide on electrochemically reduced graphene oxide for anti-viral herbaceutical sensor. <i>Analytica Chimica Acta</i> , 2022, 1209, 339877.	2.6	8
56	A machine learning-based approach to determine infection status in recipients of BBV152 (Covaxin) whole-virion inactivated SARS-CoV-2 vaccine for serological surveys. <i>Computers in Biology and Medicine</i> , 2022, 146, 105419.	3.9	8
57	Study of Atomic Force Microscopy in Pharmaceutical and Biopharmaceutical Interactions - A Mini Review. <i>Current Pharmaceutical Analysis</i> , 2009, 5, 256-268.	0.3	7
58	Functional Nanoparticles Translocation Into Cell and Adhesion Force Curve Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7752-7763.	0.9	4
59	Fluorescent silica nanoparticles functionalized on multi-walled carbon nanotubes: Fabrication and fluorescent properties. <i>Biochip Journal</i> , 2014, 8, 83-90.	2.5	4
60	Role of partial amorphous and disordered stannous ions incorporated hydroxyapatite nanosphere for enhanced electrochemical energy storage application. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156710.	2.8	3
61	Rational design of effective solid-state electrochemiluminescence platform of Gold@Polyluminol nanocomposite as an ultrasensitive immuno-probe for selective detection of prostate specific antigen. <i>Analytica Chimica Acta</i> , 2022, 1206, 339736.	2.6	3
62	Molybdenum trioxide hybridized kaempferol: double-powered nanosystem for salvaging oxidative stress and electrochemical immunoprobng of interleukin-6. <i>Materials Today Chemistry</i> , 2022, 24, 100809.	1.7	3
63	Hybridized graphene nanomaterials for drug delivery, cyto-compatibility, and electrochemical biosensor application * *Volume VI: Carbon (Nanotube, Fullerene, Graphene) Nanomaterials.. , 2018, , 375-411.		1
64	NMR Studies of Artificial Double-Crossover DNA Tiles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2300-2310.	0.9	0
65	Physico-chemically functionalized hybrid graphene derivatives for miniaturized microfluidics and biotransducer platform. <i>Comprehensive Analytical Chemistry</i> , 2020, , 125-148.	0.7	0