

# Murugan Veerapandian

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9249697/murugan-veerapandian-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

66

papers

3,337

citations

23

h-index

57

g-index

67

ext. papers

3,842

ext. citations

6.2

avg, IF

5.65

L-index

#	Paper	IF	Citations
66	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> , <b>2022</b> , 1206, 339736	6.6	0
65	Molybdenum trioxide hybridized kaempferol: double-powered nanosystem for salvaging oxidative stress and electrochemical immunoprobng of interleukin-6. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100809	6.2	0
64	Electrochemical and DFT studies of andrographolide on electrochemically reduced graphene oxide for anti-viral herbaceutical sensor.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1209, 339877	6.6	0
63	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> , <b>2022</b> , 146, 105419	7	2
62	Insights from a Pan India Sero-Epidemiological survey (Phenome-India Cohort) for SARS-CoV2. <i>ELife</i> , <b>2021</b> , 10,	8.9	12
61	Role of partial amorphous and disordered stannous ions incorporated hydroxyapatite nanosphere for enhanced electrochemical energy storage application. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 851, 156710	5.7	1
60	Electrochemical properties of Rubpy-reduced graphene oxide synergized by ultrasonication for label-free quercetin sensing. <i>Applied Surface Science</i> , <b>2021</b> , 537, 147777	6.7	5
59	Nitrogenated-carbon nanoelectrocatalyst advertently processed from bio-waste of Allium sativum for oxygen reduction reaction. <i>Journal of Nanostructure in Chemistry</i> , <b>2021</b> , 11, 343-352	7.6	7
58	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> , <b>2021</b> , 143, 116413	14.6	4
57	Chitosan grafted butein: A metal-free transducer for electrochemical genosensing of exosomal CD24. <i>Carbohydrate Polymers</i> , <b>2021</b> , 269, 118333	10.3	1
56	Physico-chemically functionalized hybrid graphene derivatives for miniaturized microfluidics and biotransducer platform. <i>Comprehensive Analytical Chemistry</i> , <b>2020</b> , 125-148	1.9	
55	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> , <b>2020</b> , 312, 127985	8.5	17
54	Electrochemical Tracing of Butein Using Carbon Nanoparticles Interfaced Electrode Processed from Biowaste. <i>Electroanalysis</i> , <b>2020</b> , 32, 1220-1225	3	7
53	State-of-Art Bio-Assay Systems and Electrochemical Approaches for Nanotoxicity Assessment. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 325	5.8	8
52	Opto-electrochemical functionality of Ru(II)-reinforced graphene oxide nanosheets for immunosensing of dengue virus non-structural 1 protein. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 150, 111878	11.8	14
51	Impact of aminated carbon quantum dots as a novel co-reactant for Ru(bpy): resolving specific electrochemiluminescence for butein detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 539-546	4.4	9
50	Low cost, catalyst free, high performance supercapacitors based on porous nano carbon derived from agriculture waste. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101829	7.8	42

49	RF magnetron sputtering mediated NiTi/Ag coating on Ti-alloy substrate with enhanced biocompatibility and durability. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 304-314	8.3	12
48	Chitosanlyated MoO-Ruthenium(II) Nanocomposite as Biocompatible Probe for Bioimaging and Herbaceutical Detection. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3606-3617	5.5	4
47	Graphene-based nanocomposites for sensitivity enhancement of surface plasmon resonance sensor for biological and chemical sensing: A review. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 139, 111324	11.8	85
46	Amygdalin-Functionalized Carbon Quantum Dots for Probing $\beta$ Glucosidase Activity for Cancer Diagnosis and Therapeutics. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3089-3099	5.5	19
45	Chemically synthesized butein and butin: Optical, structure and electrochemical redox functionality at electrode interface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 182, 122-129	6.7	5
44	Hybridized graphene nanomaterials for drug delivery, cyto-compatibility, and electrochemical biosensor application * *Volume VI: Carbon (Nanotube, Fullerene, Graphene) Nanomaterials. <b>2018</b> , 375-411		1
43	Electrochemical sensing platform for the determination of arsenite and arsenate using electroactive nanocomposite electrode. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 319-327	14.7	21
42	Methylene Blue-Fortified Molybdenum Trioxide Nanoparticles: Harnessing Radical Scavenging Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43429-43438	9.5	12
41	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> , <b>2018</b> , 185, 297	5.8	16
40	Ruthenium bipyridine sensitized MoO multifunctional nanostructures: Study of opto-electrochemical properties, biocompatibility and bioimaging. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 154, 315-320	6	9
39	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. <i>Talanta</i> , <b>2017</b> , 162, 574-582	6.2	78
38	Ruthenium dye sensitized graphene oxide electrode for on-farm rapid detection of beta-hydroxybutyrate. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 228, 180-184	8.5	18
37	Lipoxygenase-modified Ru-bpy/graphene oxide: Electrochemical biosensor for on-farm monitoring of non-esterified fatty acid. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 78, 253-258	11.8	23
36	Dual immunosensor based on methylene blue-electroadsorbed graphene oxide for rapid detection of the influenza A virus antigen. <i>Talanta</i> , <b>2016</b> , 155, 250-7	6.2	58
35	Glucosamine-Anchored Graphene Oxide Nanosheets: Fabrication, Ultraviolet Irradiation, and Electrochemical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 14552-6	9.5	27
34	Graphene oxide chemically decorated with AgRu/chitosan nanoparticles: fabrication, electrode processing and immunosensing properties. <i>RSC Advances</i> , <b>2015</b> , 5, 75015-75024	3.7	31
33	Chitosan-modified silver@ruthenium hybrid nanoparticles: evaluation of physico-chemical properties and bio-affinity with sialic acid. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 665-672	7.3	8
32	Sodium functionalized graphene oxide coated titanium plates for improved corrosion resistance and cell viability. <i>Applied Surface Science</i> , <b>2014</b> , 293, 124-131	6.7	27

31	Graphene oxide functionalized with silver@silica-polyethylene glycol hybrid nanoparticles for direct electrochemical detection of quercetin. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 200-4	11.8	55
30	Reusable urine glucose sensor based on functionalized graphene oxide conjugated Au electrode with protective layers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2014</b> , 3, 49-53	5.3	12
29	Nanostructured molybdenum oxide-based antibacterial paint: effective growth inhibition of various pathogenic bacteria. <i>Nanotechnology</i> , <b>2014</b> , 25, 315101	3.4	64
28	Fluorescent silica nanoparticles functionalized on multi-walled carbon nanotubes: Fabrication and fluorescent properties. <i>Biochip Journal</i> , <b>2014</b> , 8, 83-90	4	3
27	Metalloid polymer nanoparticle functionalized graphene oxide working electrode for durable glucose sensing. <i>Materials Research Bulletin</i> , <b>2014</b> , 49, 593-600	5.1	11
26	Surface chemistry of cerium oxide nanocubes: Toxicity against pathogenic bacteria and their mechanistic study. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 3513-3517	6.3	46
25	Surface activation of graphene oxide nanosheets by ultraviolet irradiation for highly efficient anti-bacterials. <i>Nanotechnology</i> , <b>2013</b> , 24, 395706	3.4	59
24	New function of molybdenum trioxide nanoplates: toxicity towards pathogenic bacteria through membrane stress. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 112, 521-4	6	57
23	Functional Nanomaterials for Biomedical Research: Focus on Bio-Functionalization, Biosynthesis, and Biomedical Applications <b>2013</b> , 67-96		
22	The chemical and structural analysis of graphene oxide with different degrees of oxidation. <i>Carbon</i> , <b>2013</b> , 53, 38-49	10.4	1150
21	Methylene blue dye coated silver@silica nanoparticles with dual functionality fabricated by injection pump and ultrasonochemistry. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 1817-1823	5.1	9
20	Investigation of Raman and photoluminescence studies of reduced graphene oxide sheets. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 106, 501-506	2.6	211
19	Biogenic synthesis of multidimensional gold nanoparticles assisted by <i>Streptomyces hygroscopicus</i> and its electrochemical and antibacterial properties. <i>BioMetals</i> , <b>2012</b> , 25, 351-60	3.4	47
18	Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17280-17287	3.8	315
17	Glucosamine functionalized copper nanoparticles: Preparation, characterization and enhancement of anti-bacterial activity by ultraviolet irradiation. <i>Chemical Engineering Journal</i> , <b>2012</b> , 209, 558-567	14.7	43
16	NMR studies of artificial double-crossover DNA tiles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 2300-10	1.3	
15	Synthesis, characterization and electrochemical properties of functionalized graphene oxide. <i>Carbon</i> , <b>2012</b> , 50, 4228-4238	10.4	128
14	A One Step Hydrothermal Approach for the Improved Synthesis of Graphene Nanosheets. <i>Current Nanoscience</i> , <b>2012</b> , 8, 934-938	1.4	15

13	Functional nanoparticles translocation into cell and adhesion force curve analysis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 7752-63	1.3	4
12	Functionalized graphene oxide for clinical glucose biosensing in urine and serum samples. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 6123-36	7.3	41
11	Copper-glucosamine microcubes: synthesis, characterization, and C-reactive protein detection. <i>Langmuir</i> , <b>2011</b> , 27, 8934-42	4	25
10	Structural and biological evaluation of a multifunctional SWCNT-AgNPs-DNA/PVA bio-nanofilm. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 547-60	4.4	18
9	PEGylated polyethyleneimine grafted silica nanoparticles: enhanced cellular uptake and efficient siRNA delivery. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 535-45	4.4	20
8	Functionalization of biomolecules on nanoparticles: specialized for antibacterial applications. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 90, 1655-67	5.7	101
7	Triad CNT-NPs/Polymer Nanocomposites: Fabrication, Characterization, and Preliminary Antimicrobial Study. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2011</b> , 41, 345-355		9
6	Nanoparticles: functionalization and multifunctional applications in biomedical sciences. <i>Current Medicinal Chemistry</i> , <b>2010</b> , 17, 4559-77	4.3	211
5	Ultrasonochemically conjugated metalloid/triblock copolymer nanocomposite and subsequent thin solid laminate growth for surface and interface studies. <i>Langmuir</i> , <b>2010</b> , 26, 14216-22	4	13
4	Analytical and biological characterization of quinazoline semicarbazone derivatives. <i>Medicinal Chemistry Research</i> , <b>2010</b> , 19, 283-298	2.2	8
3	Glucosamine-functionalized silver glyconanoparticles: characterization and antibacterial activity. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 867-76	4.4	65
2	Ultrasonochemical-assisted fabrication and evaporation- induced self-assembly (EISA) of POSS-SiO <sub>2</sub> @Ag core/ABA triblock copolymer nanocomposite film. <i>Polymer Composites</i> , <b>2010</b> , 31, 1620-1627	3.27	9
1	Study of Atomic Force Microscopy in Pharmaceutical and Biopharmaceutical Interactions - A Mini Review. <i>Current Pharmaceutical Analysis</i> , <b>2009</b> , 5, 256-268	0.6	5