

# Veeradasan Perumal

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,032  
citations

567281

15  
h-index

610901

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in biosensors: Principle, architecture and applications. Journal of Applied Biomedicine, 2014, 12, 1-15.	1.7	405
2	“Spotted Nanoflowers”™: Gold-seeded Zinc Oxide Nanohybrid for Selective Bio-capture. Scientific Reports, 2015, 5, 12231.	3.3	92
3	Gold nanorod embedded novel 3D graphene nanocomposite for selective bio-capture in rapid detection of Mycobacterium tuberculosis. Biosensors and Bioelectronics, 2018, 116, 116-122.	10.1	53
4	Human papilloma virus DNA-biomarker analysis for cervical cancer: Signal enhancement by gold nanoparticle-coupled tetravalent streptavidin-biotin strategy. International Journal of Biological Macromolecules, 2019, 134, 354-360.	7.5	51
5	Nanogapped impedimetric immunosensor for the detection of 16kDa heat shock protein against Mycobacterium tuberculosis. Mikrochimica Acta, 2016, 183, 2697-2703.	5.0	43
6	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. Biosensors and Bioelectronics, 2016, 78, 14-22.	10.1	39
7	Characterization of Gold-Sputtered Zinc Oxide Nanorods—a Potential Hybrid Material. Nanoscale Research Letters, 2016, 11, 31.	5.7	34
8	Diagnosing human blood clotting deficiency. International Journal of Biological Macromolecules, 2018, 116, 765-773.	7.5	34
9	Thickness Dependent Nanostructural, Morphological, Optical and Impedometric Analyses of Zinc Oxide-Gold Hybrids: Nanoparticle to Thin Film. PLoS ONE, 2015, 10, e0144964.	2.5	32
10	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. Mikrochimica Acta, 2017, 184, 117-125.	5.0	32
11	Cellulose acetate-MoS <sub>2</sub> nanopetal hybrid: A highly sensitive and selective electrochemical aptasensor of Troponin I for the early diagnosis of Acute Myocardial Infarction. Journal of the Taiwan Institute of Chemical Engineers, 2021, 118, 245-253.	5.3	32
12	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. Analytica Chimica Acta, 2016, 925, 70-81.	5.4	30
13	Laser-scribed graphene nanofiber decorated with oil palm lignin capped silver nanoparticles: a green biosensor. Scientific Reports, 2021, 11, 5475.	3.3	27
14	Nanoscaled Surface Modification of Poly(dimethylsiloxane) Using Carbon Nanotubes for Enhanced Oil and Organic Solvent Absorption. ACS Omega, 2018, 3, 15907-15915.	3.5	20
15	Highly sensitive and selective acute myocardial infarction detection using aptamer-ethered MoS <sub>2</sub> nanoflower and screen-printed electrodes. Biotechnology and Applied Biochemistry, 2020, , .	3.1	20
16	Molybdenum disulphide/cellulose acetate nanofiber composite on screen printed electrodes for detecting cardiac troponin by electrical impedance spectroscopy. Cellulose, 2021, 28, 5761.	4.9	16
17	3D nanoporous hybrid nanoflower for enhanced non-faradaic redox-free electrochemical impedimetric biodetermination. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 26-35.	5.3	14
18	pH Measurement using in house fabricated interdigitated capacitive transducer. , 2013, , .		12

#	ARTICLE	IF	CITATIONS
19	Voltammetric immunoassay for the human blood clotting factor IX by using nanogapped dielectrode junctions modified with gold nanoparticle-conjugated antibody. <i>Mikrochimica Acta</i> , 2017, 184, 3739-3745.	5.0	11
20	Aptamer-based determination of ATP by using a functionalized impedimetric nanosensor and mediation by a triangular junction transducer. <i>Mikrochimica Acta</i> , 2017, 184, 4425-4431.	5.0	10
21	Self-assembled silver nanoparticle-DNA on a dielectrode microdevice for determination of gynecologic tumors. <i>Biomedical Microdevices</i> , 2020, 22, 67.	2.8	9
22	Gold-Nanohybrid Biosensors for Analyzing Blood Circulating Clinical Biomacromolecules: Current Trend toward Future Remote Digital Monitoring. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 577-592.	3.5	6
23	MicroRNA-155 complementation on a chemically functionalized dual electrode surface for determining breast cancer. <i>3 Biotech</i> , 2020, 10, 270.	2.2	3
24	Antimicrobial Property of Biosynthesized Silver Nanoparticles. <i>Advanced Structured Materials</i> , 2019, , 87-101.	0.5	2
25	Microtechnology and Nanotechnology Advancements Toward Bio-Molecular Targeting. , 2019, , 225-251.		2
26	DC magnetron sputtered TiO <sub>2</sub> thin film as efficient hole blocking layer for perovskite solar cell. , 2017, , .		1
27	Template-assisted growth of highly oriented 3D graphene pH sensor towards new avenues for biosensor. , 2017, , .		1
28	An Overview of Unique Metal Oxide Nanostructures for Biosensor Applications. <i>Advanced Structured Materials</i> , 2019, , 51-69.	0.5	1
29	Expeditious Fabrication & Characterization of Metal Interdigitated Transducer on Polyimide film for Biosensing Application. , 2019, , .		0