

# Noel Nesakumar

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,158  
citations

430442

18  
h-index

414034

32  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of electrochemical biosensor with ceria@PANI core-shell nano-interface for the detection of histamine. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 330-338.	4.0	84
2	Fabrication of lactate biosensor based on lactate dehydrogenase immobilized on cerium oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 158-164.	5.0	83
3	Electrochemical acetylcholinesterase biosensor based on ZnO nanocuboids modified platinum electrode for the detection of carbosulfan in rice. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1070-1077.	5.3	73
4	Design and development of electrochemical biosensor for the simultaneous detection of melamine and urea in adulterated milk samples. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1283-1292.	4.0	69
5	An Electronic Nose for Royal Delicious Apple Quality Assessment – A Tri-layer Approach. <i>Food Research International</i> , 2018, 109, 44-51.	2.9	52
6	An electrochemical biosensor with nanointerface for lactate detection based on lactate dehydrogenase immobilized on zinc oxide nanorods. <i>Journal of Colloid and Interface Science</i> , 2014, 414, 90-96.	5.0	51
7	Chemically modified carbon based electrodes for the detection of reduced glutathione. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 448-466.	4.0	49
8	Hydrogen peroxide biosensor utilizing a hybrid nano-interface of iron oxide nanoparticles and carbon nanotubes to assess the quality of milk. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 166-173.	4.0	46
9	Freshness Assessment of Broccoli using Electronic Nose. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 145, 735-743.	2.5	35
10	SARS-CoV, MERS-CoV and SARS-CoV-2: A Diagnostic Challenge. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 168, 108335.	2.5	35
11	Electrochemical biosensor with ceria@polyaniline core shell nano-interface for the detection of carbonic acid in blood. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 52-58.	5.0	31
12	Functionalized Graphene Quantum Dot Interfaced Electrochemical Detection of Cardiac Troponin I: An Antibody Free Approach. <i>Scientific Reports</i> , 2019, 9, 17348.	1.6	31
13	Electrocatalytic nanocauliflower structured fluorine doped CdO thin film as a potential arsenic sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 426-434.	4.0	30
14	A framework for analysing E-Nose data based on fuzzy set multiple linear regression: Paddy quality assessment. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 200-209.	2.0	30
15	A novel electrochemical sensor based on a nickel-metal organic framework for efficient electrocatalytic oxidation and rapid detection of lactate. <i>New Journal of Chemistry</i> , 2018, 42, 11839-11846.	1.4	30
16	Simultaneous detection of monocrotophos and dichlorvos in orange samples using acetylcholinesterase@zinc oxide modified platinum electrode with linear regression calibration. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 306-313.	4.0	29
17	Green preparation of reduced graphene oxide by Bougainvillea glabra flower extract and sensing application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14345-14356.	1.1	27
18	Electrochemical enzymeless detection of superoxide employing naringin@copper decorated electrodes. <i>Biosensors and Bioelectronics</i> , 2014, 59, 134-139.	5.3	25

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19	NiFe-Layered Double Hydroxide Sheets as an Efficient Electrochemical Biosensing Platform. <i>Journal of the Electrochemical Society</i> , 2018, 165, B536-B542.	1.3	18
20	Analysis of Moisture Content in Beetroot using Fourier Transform Infrared Spectroscopy and by Principal Component Analysis. <i>Scientific Reports</i> , 2018, 8, 7996.	1.6	18
21	Zinc oxide nanoparticles-based electrochemical sensor for the detection of nitrate ions in water with a low detection limit—a chemometric approach. <i>Journal of Analytical Chemistry</i> , 2017, 72, 316-326.	0.4	17
22	Mind Game for Cover Steganography: A Refuge. <i>Research Journal of Information Technology</i> , 2013, 5, 137-148.	0.4	17
23	Cyclic voltammetric acetylcholinesterase biosensor for the detection of captan in apple samples with the aid of chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4863-4868.	1.9	16
24	Principles and Recent Advances in Biosensors for Pathogens Detection. <i>ChemistrySelect</i> , 2021, 6, 10063-10091.	0.7	15
25	Ferricyanide/reduced graphene oxide as electron mediator for the electrochemical detection of methanol in canned citrus sinensis and citrus limetta. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 708-717.	4.0	14
26	Fabrication of GQD-Electrodeposited Screen-Printed Carbon Electrodes for the Detection of the CRP Biomarker. <i>ACS Omega</i> , 2021, 6, 32528-32536.	1.6	14
27	Determination of Putrescine in Tiger Prawn Using an Amperometric Biosensor Based on Immobilization of Diamine Oxidase onto Ceria Nanospheres. <i>Food and Bioprocess Technology</i> , 2016, 9, 717-724.	2.6	13
28	Cu(HBTC)(4,4'-bipy)-3DMF nanorods supported on platinum electrode as an electrochemical sensing platform for efficient vitamin B12 detection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 1-10.	2.7	12
29	Calcium carbide in mangoes: an electrochemical way for detection. <i>Analytical Methods</i> , 2016, 8, 4590-4599.	1.3	11
30	Estimation of methylglyoxal in cow milk—an accurate electrochemical response time based approach. <i>Analytical Methods</i> , 2016, 8, 2207-2217.	1.3	11
31	Fabrication of electrochemical biosensor with vanadium pentoxide nano-interface for the detection of methylglyoxal in rice. <i>Analytical Biochemistry</i> , 2017, 528, 19-25.	1.1	11
32	Influence of pH on Structural Morphology of ZnO Nanoparticle. <i>Journal of Applied Sciences</i> , 2012, 12, 1758-1761.	0.1	11
33	Ag <sub>x</sub> Cu <sub>y</sub> Ni <sub>z</sub> Trimetallic Alloy Catalysts for the Electrocatalytic Reduction of Benzyl Bromide in the Presence of Carbon Dioxide. <i>ACS Omega</i> , 2018, 3, 17125-17134.	1.6	10
34	Chemometric Analysis for the Determination of Methylglyoxal in Grilled Chicken Using ZnO Flakes Based Glyoxalase 1 Biosensor. <i>Sensor Letters</i> , 2015, 13, 245-253.	0.4	9
35	Evaluation of Inhibition Efficiency for the Detection of Captan, 2,3,7,8-Tetrachlorodibenzodioxin, Pentachlorophenol and Carbosulfan in Water: An Electrochemical Approach. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016, 96, 217-223.	1.3	8
36	Non-enzymatic detection of glucose in fruits using TiO <sub>2</sub> /Mn <sub>3</sub> O <sub>4</sub> hybrid nano interface. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 309-316.	1.6	8

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37	Fabrication of an electrochemical biosensor with ZnO nanoflakes interface for methylglyoxal quantification in food samples. <i>Food Science and Biotechnology</i> , 2018, 27, 9-17.	1.2	8
38	ATR-FTIR as a versatile analytical tool for the rapid determination of storage life of fresh <i>Agaricus bisporus</i> via its moisture content. <i>Postharvest Biology and Technology</i> , 2019, 154, 159-168.	2.9	8
39	S,Na€QDs Enzyme Mimicked Electrochemical Sensor to Detect the Hazardous Level of Monocrotophos in Water. <i>Electroanalysis</i> , 2020, 32, 971-977.	1.5	8
40	Electrochemical Sensing of Arsenic Ions Using a Covalently Functionalized Benzotriazole€Reduced Graphene Oxide€Modified Screen€Printed Carbon Electrode. <i>ChemistrySelect</i> , 2022, 7, .	0.7	8
41	A Multiple Approach Combined with Portable Electronic Nose for Assessment of Post-harvest Sapota Contamination by Foodborne Pathogens. <i>Food and Bioprocess Technology</i> , 2020, 13, 1193-1205.	2.6	7
42	Optimization of Electrochemical Parameters for Specific Blood Methylglyoxal Determination Using ZnO Sepals Based Glyoxalase 1 Biosensor. <i>Sensor Letters</i> , 2015, 13, 328-337.	0.4	7
43	An Electrochemical Biosensor with Nano-Interface for Lactate Detection Based on Lactate Dehydrogenase Immobilized on Iron Oxide Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 242-249.	0.4	6
44	Simultaneous voltammetric determination of captan, carbosulfan, 2,3,7,8-tetrachlorodibenzodioxin and pentachlorophenol in groundwater by ceria nanospheres decorated platinum electrode and chemometrics. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 109, 130-136.	2.5	6
45	A low power ammonia sensor node embedded with a light weight non-linear analytics. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 357-362.	2.0	6
46	Theoretical Investigation of Surface Coverage in the Electrochemical Behaviour of Enzyme Modified Electrodes. <i>Sensor Letters</i> , 2015, 13, 344-348.	0.4	6
47	Chemometrics on Ceria-Polyaniline Modified Glassy Carbon Bioelectrode for Accurate Detection of Histamine in Fish. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 1911-1918.	0.4	5
48	Simultaneous detection of pentachlorophenol and 2,3,7,8-tetrachlorodibenzodioxin in guar gum€an electrochemical approach. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 309-322.	1.5	5
49	Design and Development of Acetylthiocholine Electrochemical Biosensor Based on Zinc Oxide€Cerium Oxide Nanohybrid Modified Platinum Electrode. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 98, 662-671.	1.3	5
50	Wavelet based spectral approach for solving surface coverage model in an electrochemical arsenic sensor - An operational matrix approach. <i>Electrochimica Acta</i> , 2018, 266, 27-33.	2.6	5
51	Amperometric Detection of Mercury Ions Using Piperazine€Functionalized Reduced Graphene Oxide as an Efficient Sensing Platform. <i>ChemistrySelect</i> , 2022, 7, .	0.7	5
52	Non-Linearization of Modified Michaelis-Menten Kinetics. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 2596-2602.	0.4	4
53	Development of an Electrodeposited Graphene Quantum Dot Electrode for the Electrochemical Detection of C€Reactive Protein (CRP) Biomarker. <i>ChemistrySelect</i> , 2022, 7, .	0.7	4
54	Chemometric Methods for the Evaluation of Electron Transfer Properties of Zinc Oxide Nanorods Modified Gold Electrode for Lactate Detection in Food Products. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 407-412.	0.4	3

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55	Electron Transfer Properties of Nano-Ceria Based Linear Voltammetric Biosensor for Tributyrin Detection. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 944-949.	0.4	2
56	A non-linear analytical model to estimate the response and recovery times of gaseous ammonia nanosensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 176-181.	2.5	2
57	Investigation of Electron Transfer Properties of Nanoceria Based Acetylcholine Biosensor Using Chemometric Methods. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 1652-1660.	0.4	1
58	A Mathematical Model for Predicting Dynamic Sensitivity of a Non-Linear Amperometric Biosensor Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 1076-1082.	0.4	1
59	Estimation of Michaelis-Menten Constant and Maximum Rate of Reaction: A Nonlinear Approach. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 2588-2595.	0.4	0
60	Bio-Analytical Approach for the Consideration of Substrate Concentration in Inhibition Assay. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 3183-3187.	0.4	0
61	Extended Bio-Analytical Approach for the Determination of Potential Toxicants. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 88-93.	0.4	0
62	Evaluation of Electrochemical Parameters of Carbonic Acid Biosensor with the Aid of Multivariate Chemometric Analysis. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 2003-2010.	0.4	0
63	Lanthanum Thin Film on Boron-Doped Diamond, Glassy Carbon and Platinum Electrodes – An Electrochemical Approach. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4116-4122.	0.9	0