

Nadnudda Rodthongkum

List of Publications by Year in descending order

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52
papers

2,848
citations

172457

29
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

3372
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel paper-based cholesterol biosensor using graphene/polyvinylpyrrolidone/polyaniline nanocomposite. <i>Biosensors and Bioelectronics</i> , 2014, 52, 13-19.	10.1	302
2	An electrochemical sensor based on graphene/polyaniline/polystyrene nanoporous fibers modified electrode for simultaneous determination of lead and cadmium. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 526-534.	7.8	284
3	Sensitive electrochemical sensor using a graphene-polyaniline nanocomposite for simultaneous detection of Zn(II), Cd(II), and Pb(II). <i>Analytica Chimica Acta</i> , 2015, 874, 40-48.	5.4	260
4	Non-invasive textile based colorimetric sensor for the simultaneous detection of sweat pH and lactate. <i>Talanta</i> , 2019, 192, 424-430.	5.5	155
5	Vanadium-Based Oxide on Two-Dimensional Vanadium Carbide MXene ($V_2O_x@V_2CT_x$) as Cathode for Rechargeable Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4677-4689.	5.1	138
6	Electrochemical detection of human papillomavirus DNA type 16 using a pyrrolidiny peptide nucleic acid probe immobilized on screen-printed carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2014, 54, 428-434.	10.1	121
7	Label-free paper-based electrochemical impedance immunosensor for human interferon gamma detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 298-304.	7.8	101
8	A nanocomposite prepared from platinum particles, polyaniline and a Ti_3C_2 MXene for amperometric sensing of hydrogen peroxide and lactate. <i>Mikrochimica Acta</i> , 2019, 186, 752.	5.0	79
9	Cotton thread-based wearable sensor for non-invasive simultaneous diagnosis of diabetes and kidney failure. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128549.	7.8	74
10	Non-invasive wearable chemical sensors in real-life applications. <i>Analytica Chimica Acta</i> , 2021, 1179, 338643.	5.4	68
11	A facile synthesis of nanorods of ZnO/graphene oxide composites with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2014, 321, 226-232.	6.1	67
12	Label-free immunosensor based on graphene/polyaniline nanocomposite for neutrophil gelatinase-associated lipocalin detection. <i>Biosensors and Bioelectronics</i> , 2017, 87, 249-255.	10.1	66
13	ZnO@graphene nanocomposite modified electrode for sensitive and simultaneous detection of Cd (II) and Pb (II). <i>Synthetic Metals</i> , 2018, 245, 251-259.	3.9	65
14	A copper oxide-ionic liquid/reduced graphene oxide composite sensor enabled by digital dispensing: Non-enzymatic paper-based microfluidic determination of creatinine in human blood serum. <i>Analytica Chimica Acta</i> , 2019, 1083, 110-118.	5.4	65
15	Colorimetric sensor and LDI-MS detection of biogenic amines in food spoilage based on porous PLA and graphene oxide. <i>Food Chemistry</i> , 2020, 329, 127165.	8.2	62
16	Non-invasive electrochemical immunosensor for sweat cortisol based on L-cys/AuNPs/ MXene modified thread electrode. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114039.	10.1	60
17	Nitrogen-doped graphene-polyvinylpyrrolidone/gold nanoparticles modified electrode as a novel hydrazine sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 524-532.	7.8	55
18	Paper-Based Digital Microfluidic Chip for Multiple Electrochemical Assay Operated by a Wireless Portable Control System. <i>Advanced Materials Technologies</i> , 2017, 2, 1600267.	5.8	54

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19	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. <i>Analytica Chimica Acta</i> , 2013, 804, 84-91.	5.4	52
20	Bacterial cellulose-based re-swella ble hydrogel: Facile preparation and its potential application as colorimetric sensor of sweat pH and glucose. <i>Carbohydrate Polymers</i> , 2021, 256, 117506.	10.2	52
21	Nanomaterials-based electrochemical sensors and biosensors for the detection of non-steroidal anti-inflammatory drugs. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116403.	11.4	49
22	Electrochemical immunosensor based on gold-labeled monoclonal anti-LipL32 for leptospirosis diagnosis. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111539.	10.1	45
23	Hydrophilic graphene surface prepared by electrochemically reduced micellar graphene oxide as a platform for electrochemical sensor. <i>Talanta</i> , 2017, 165, 692-701.	5.5	42
24	Recent Advances in Microfluidic Paper-Based Analytical Devices toward High-Throughput Screening. <i>Molecules</i> , 2020, 25, 2970.	3.8	39
25	Patterned Poly(acrylic acid) Brushes Containing Gold Nanoparticles for Peptide Detection by Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 10738-10746.	6.5	35
26	3D paper-based microfluidic device: a novel dual-detection platform of bisphenol A. <i>Analyst, The</i> , 2020, 145, 1491-1498.	3.5	34
27	Selective enrichment and sensitive detection of peptide and protein biomarkers in human serum using polymeric reverse micelles and MALDI-MS. <i>Analyst, The</i> , 2012, 137, 1024-1030.	3.5	30
28	Graphene/polyvinylpyrrolidone/polyaniline nanocomposite-modified electrode for simultaneous determination of parabens by high performance liquid chromatography. <i>Talanta</i> , 2016, 148, 655-660.	5.5	30
29	Ultra-performance liquid chromatography coupled with graphene/polyaniline nanocomposite modified electrode for the determination of sulfonamide residues. <i>Talanta</i> , 2014, 123, 115-121.	5.5	29
30	Single step preparation of platinum nanoflowers/reduced graphene oxide electrode as a novel platform for diclofenac sensor. <i>Microchemical Journal</i> , 2020, 155, 104744.	4.5	27
31	TiO ₂ /MXene-PVA/GO hydrogel-based electrochemical sensor for neurological disorder screening via urinary norepinephrine detection. <i>Mikrochimica Acta</i> , 2021, 188, 387.	5.0	27
32	Free radical scavenger screening of total antioxidant capacity in herb and beverage using graphene/PEDOT: PSS-modified electrochemical sensor. <i>Journal of Electroanalytical Chemistry</i> , 2016, 767, 68-75.	3.8	26
33	TiO ₂ sol/graphene modified 3D porous Ni foam: A novel platform for enzymatic electrochemical biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 133-142.	3.8	23
34	A non-enzymatic disposable electrochemical sensor based on surface-modified screen-printed electrode CuO-IL/rGO nanocomposite for a single-step determination of glucose in human urine and electrolyte drinks. <i>Analytical Methods</i> , 2021, 13, 2796-2803.	2.7	23
35	Conductive electrospun composite fibers based on solid-state polymerized Poly(3,4-ethylenedioxythiophene) for simultaneous electrochemical detection of metal ions. <i>Talanta</i> , 2022, 241, 123253.	5.5	23
36	Selective Enrichment and Analysis of Acidic Peptides and Proteins Using Polymeric Reverse Micelles and MALDI-MS. <i>Analytical Chemistry</i> , 2010, 82, 8686-8691.	6.5	21

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37	Electroless NiP-TiO ₂ sol-RGO: A smart coating for enhanced corrosion resistance and conductivity of steel. <i>Surface and Coatings Technology</i> , 2017, 325, 604-610.	4.8	21
38	Reduced Graphene Oxide/Carboxymethyl Cellulose Nanocomposites: Novel Conductive Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3544-3550.	0.9	21
39	Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Signal Enhancement of Peptides after Selective Extraction with Polymeric Reverse Micelles. <i>Analytical Chemistry</i> , 2010, 82, 3686-3691.	6.5	15
40	Generating Peptide Titration-Type Curves Using Polymeric Reverse Micelles As Selective Extraction Agents along with Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Detection. <i>Analytical Chemistry</i> , 2009, 81, 5046-5053.	6.5	13
41	Kenaf cellulose-based 3D printed device: a novel colorimetric sensor for Ni(II). <i>Cellulose</i> , 2020, 27, 5211-5222.	4.9	13
42	Thread-Based Wristwatch Sensing Device for Noninvasive and Simultaneous Detection of Glucose and Lactate. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	11
43	Enhanced and Selective MALDI-MS Detection of Peptides via the Nanomaterial-Dependent Coffee Ring Effect. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1780-1788.	2.8	10
44	Label-free anti-M β llerian hormone sensor based on polyaniline micellar modified electrode. <i>Talanta</i> , 2021, 222, 121561.	5.5	9
45	Flexible cotton-AuNP thread electrode for non-enzymatic sensor of uric acid in urine. <i>Cellulose</i> , 2021, 28, 10501-10515.	4.9	9
46	Polyvinyl alcohol/starch modified cotton thread surface as a novel colorimetric glucose sensor. <i>Materials Letters</i> , 2021, 299, 130076.	2.6	9
47	Systematic investigation of brightener TM 's effects on alkaline non-cyanide zinc electroplating using HPLC and molecular modeling. <i>Materials Chemistry and Physics</i> , 2022, 277, 125567.	4.0	8
48	TiO ₂ sol-embedded in electroless Ni ⁶ P coating: a novel approach for an ultra-sensitive sorbitol sensor. <i>RSC Advances</i> , 2016, 6, 69261-69269.	3.6	6
49	Development of cellulose from recycled office waste paper-based composite as a platform for the colorimetric sensor in food spoilage indicator. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	6
50	A dual-lactate sensor for milk spoilage based on modified recycled UHT milk carton cellulose surface. <i>Journal of Cleaner Production</i> , 2022, 363, 132519.	9.3	6
51	A portable blood lactate sensor with a non-immobilized enzyme for early sepsis diagnosis. <i>Analyst</i> , 2022, 147, 2819-2827.	3.5	5
52	A critical review on cellulose wastes as the novel substrates for colorimetric and electrochemical sensors. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100190.	5.6	3