

Rupesh Kumar Mishra

List of Publications by Year in Descending Order

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

61
papers

2,487
citations

30
h-index

49
g-index

63
ext. papers

3,073
ext. citations

7.1
avg, IF

5.56
L-index

#	Paper	IF	Citations
61	Identification of Potential Vaccine Candidates Against SARS-CoV-2 to Fight COVID-19: Reverse Vaccinology Approach. 2022 , 3, e32401		0
60	Recent developments of molecular/biosensor diagnostics for SARS-CoV-2 detection 2022 , 167-187		
59	Electrochemical sensor for rapid detection of fentanyl using laser-induced porous carbon-electrodes.. <i>Mikrochimica Acta</i> , 2022 , 189, 198	5.8	0
58	Advances of Drugs Electroanalysis Based on Direct Electrochemical Redox on Electrodes: A Review.. <i>Critical Reviews in Analytical Chemistry</i> , 2022 , 1-46	5.2	0
57	Optical Biosensors for Diagnostics of Infectious Viral Disease: A Recent Update. <i>Diagnostics</i> , 2021 , 11,	3.8	5
56	Octahedral Cuprous Oxide Decorated Flexible Reduced Graphene Oxide Paper for Food Sensing Application. <i>Electroanalysis</i> , 2021 , 33, 1461-1470	3	1
55	Electrochemical diagnostics of infectious viral diseases: Trends and challenges. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113112	11.8	22
54	Self-assembled ruthenium decorated electrochemical platform for sensitive and selective determination of amisulpride in presence of co-administered drugs using safranin as a mediator. <i>Microchemical Journal</i> , 2021 , 164, 106061	4.8	6
53	Continuous Opioid Monitoring along with Nerve Agents on a Wearable Microneedle Sensor Array. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5991-5995	16.4	59
52	Simultaneous detection of salivary Tetrahydrocannabinol and alcohol using a Wearable Electrochemical Ring Sensor. <i>Talanta</i> , 2020 , 211, 120757	6.2	51
51	Detection of antibiotics in food: New achievements in the development of biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 127, 115883	14.6	63
50	Comparative Proteome Analysis of Mycobacterium Tuberculosis Strains - H37Ra, H37Rv, CCDC5180, and CAS/NITR204: A Step Forward to Identify Novel Drug Targets. <i>Letters in Drug Design and Discovery</i> , 2020 , 17, 1422-1431	0.8	1
49	OPAA/fluoride biosensor chip towards field detection of G-type nerve agents. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128344	8.5	11
48	Recent advances and perspectives in sweat based wearable electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 131, 116024	14.6	55
47	Point-of-use robotic sensors for simultaneous pressure detection and chemical analysis. <i>Materials Horizons</i> , 2019 , 6, 604-611	14.4	30
46	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. <i>Biosensors and Bioelectronics</i> , 2019 , 137, 161-170	11.8	102
45	Rotibot: Use of Rotifers as Self-Propelling Biohybrid Microcleaners. <i>Advanced Functional Materials</i> , 2019 , 29, 1900658	15.6	25

44	Wearable electrochemical glove-based sensor for rapid and on-site detection of fentanyl. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126422-126422	8.5	82
43	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. <i>ACS Sensors</i> , 2019 , 4, 2196-2204	9.2	94
42	Ionic Liquid-Modified Disposable Electrochemical Sensor Strip for Analysis of Fentanyl. <i>Analytical Chemistry</i> , 2019 , 91, 3747-3753	7.8	42
41	Application of Electrochemical Aptasensors toward Clinical Diagnostics, Food, and Environmental Monitoring: Review. <i>Sensors</i> , 2019 , 19,	3.8	38
40	Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Toward Melanoma Screening. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701264	10.1	104
39	Carboxylic group riched graphene oxide based disposable electrochemical immunosensor for cancer biomarker detection. <i>Analytical Biochemistry</i> , 2018 , 545, 13-19	3.1	40
38	Detection of vapor-phase organophosphate threats using wearable conformable integrated epidermal and textile wireless biosensor systems. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 227-234	11.8	65
37	Electrochemical Aptasensors for Food and Environmental Safeguarding: A Review. <i>Biosensors</i> , 2018 , 8,	5.9	60
36	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. <i>Accounts of Chemical Research</i> , 2018 , 51, 2820-2828	24.3	154
35	Chemical Sensing at the Robot Fingertips: Toward Automated Taste Discrimination in Food Samples. <i>ACS Sensors</i> , 2018 , 3, 2375-2384	9.2	40
34	Design of a portable luminescence bio-tool for on-site analysis of heavy metals in water samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2018 , 98, 1081-1094	1.8	4
33	Food Safety Analysis Using Electrochemical Biosensors. <i>Foods</i> , 2018 , 7,	4.9	75
32	Wearable potentiometric tattoo biosensor for on-body detection of G-type nerve agents simulants. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 966-972	8.5	69
31	Continuous minimally-invasive alcohol monitoring using microneedle sensor arrays. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 574-579	11.8	136
30	Low cost optical device for detection of fluorescence from Ochratoxin A using a CMOS sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 606-614	8.5	17
29	A microneedle biosensor for minimally-invasive transdermal detection of nerve agents. <i>Analyst, The</i> , 2017 , 142, 918-924	5	66
28	Wearable Flexible and Stretchable Glove Biosensor for On-Site Detection of Organophosphorus Chemical Threats. <i>ACS Sensors</i> , 2017 , 2, 553-561	9.2	190
27	Electrospinning of graphene-oxide onto screen printed electrodes for heavy metal biosensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 366-373	8.5	28

26	A novel colorimetric competitive aptamer assay for lysozyme detection based on superparamagnetic nanobeads. <i>Talanta</i> , 2017 , 165, 436-441	6.2	27
25	Wearable Ring-Based Sensing Platform for Detecting Chemical Threats. <i>ACS Sensors</i> , 2017 , 2, 1531-1538	9.2	67
24	Epidermal Tattoo Patch for Ultrasound-Based Transdermal Microballistic Delivery. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700210	6.8	14
23	Biotic Strategies for Toxic Heavy Metal Decontamination. <i>Recent Patents on Biotechnology</i> , 2017 , 11, 218-228	2.2	4
22	Sensitive quantitation of Ochratoxin A in cocoa beans using differential pulse voltammetry based aptasensor. <i>Food Chemistry</i> , 2016 , 192, 799-804	8.5	92
21	Portable and low cost fluorescence set-up for in-situ screening of Ochratoxin A. <i>Talanta</i> , 2016 , 159, 395-400	10	10
20	An electrochemical sensor based on TiO ₂ /activated carbon nanocomposite modified screen printed electrode and its performance for phenolic compounds detection in water samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2016 , 96, 237-246	1.8	17
19	Evaluation of extraction methods for ochratoxin A detection in cocoa beans employing HPLC. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2016 , 33, 500-8	3.2	7
18	Sensitive analytical performance of folding based biosensor using methylene blue tagged aptamers. <i>Talanta</i> , 2016 , 153, 138-44	6.2	46
17	Ligand Assisted Stabilization of Fluorescence Nanoparticles; an Insight on the Fluorescence Characteristics, Dispersion Stability and DNA Loading Efficiency of Nanoparticles. <i>Journal of Fluorescence</i> , 2016 , 26, 1407-14	2.4	3
16	Design of a fluorescence aptaswitch based on the aptamer modulated nano-surface impact on the fluorescence particles. <i>RSC Advances</i> , 2016 , 6, 65579-65587	3.7	10
15	Hydroxymyristic acid as a chemical marker to detect endotoxins in dialysis water. <i>Analytical Biochemistry</i> , 2015 , 470, 71-7	3.1	4
14	Development of an aptasensor based on a fluorescent particles-modified aptamer for ochratoxin A detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7815-22	4.4	35
13	A label free aptasensor for Ochratoxin A detection in cocoa beans: An application to chocolate industries. <i>Analytica Chimica Acta</i> , 2015 , 889, 106-12	6.6	77
12	Automated flow based biosensor for quantification of binary organophosphates mixture in milk using artificial neural network. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 228-237	8.5	35
11	Titanium Dioxide Nanoparticles (TiO ₂) Quenching Based Aptasensing Platform: Application to Ochratoxin A Detection. <i>Toxins</i> , 2015 , 7, 3771-84	4.9	23
10	Label free aptasensor for Lysozyme detection: A comparison of the analytical performance of two aptamers. <i>Bioelectrochemistry</i> , 2015 , 105, 72-7	5.6	47
9	A novel electrochemical aptamer-antibody sandwich assay for lysozyme detection. <i>Analyst, The</i> , 2015 , 140, 4148-53	5	58

8	A novel automated flow-based biosensor for the determination of organophosphate pesticides in milk. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 56-61	11.8	89
7	Detoxification of organophosphate residues using phosphotriesterase and their evaluation using flow based biosensor. <i>Analytica Chimica Acta</i> , 2012 , 745, 64-9	6.6	8
6	Determination of methyl parathion in water and its removal on zirconia using optical enzyme assay. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 906-17	3.2	5
5	A high sensitivity micro format chemiluminescence enzyme inhibition assay for determination of Hg(II). <i>Sensors</i> , 2010 , 10, 6377-94	3.8	13
4	A high-throughput enzyme assay for organophosphate residues in milk. <i>Sensors</i> , 2010 , 10, 11274-86	3.8	9
3	Flow injection analysis biosensor for urea analysis in adulterated milk using enzyme thermistor. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1560-4	11.8	41
2	Identification of potential vaccine candidates against SARS-CoV-2, A step forward to fight COVID-19: A Reverse Vaccinology Approach		10
1	Investigation of the thermal stability of the antihypertensive drug nebivolol under different conditions: Experimental and computational analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0