Rupesh Kumar Mishra

List of Publications by Citations

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	Wearable Flexible and Stretchable Glove Biosensor for On-Site Detection of Organophosphorus Chemical Threats. *ACS Sensors*, **2017**, 2, 553-561	9.2	190
60	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. *Accounts of Chemical Research*, **2018**, 51, 2820-2828	24.3	154
59	Continuous minimally-invasive alcohol monitoring using microneedle sensor arrays. *Biosensors and Bioelectronics*, **2017**, 91, 574-579	11.8	136
58	Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Toward Melanoma Screening. *Advanced Healthcare Materials*, **2018**, 7, e1701264	10.1	104
57	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. *Biosensors and Bioelectronics*, **2019**, 137, 161-170	11.8	102
56	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. *ACS Sensors*, **2019**, 4, 2196-2204	9.2	94
55	Sensitive quantitation of Ochratoxin A in cocoa beans using differential pulse voltammetry based aptasensor. *Food Chemistry*, **2016**, 192, 799-804	8.5	92
54	A novel automated flow-based biosensor for the determination of organophosphate pesticides in milk. *Biosensors and Bioelectronics*, **2012**, 32, 56-61	11.8	89
53	Wearable electrochemical glove-based sensor for rapid and on-site detection of fentanyl. *Sensors and Actuators B: Chemical*, **2019**, 296, 126422-126422	8.5	82
52	A label free aptasensor for Ochratoxin A detection in cocoa beans: An application to chocolate industries. *Analytica Chimica Acta*, **2015**, 889, 106-12	6.6	77
51	Food Safety Analysis Using Electrochemical Biosensors. *Foods*, **2018**, 7,	4.9	75
50	Wearable potentiometric tattoo biosensor for on-body detection of G-type nerve agents simulants. *Sensors and Actuators B: Chemical*, **2018**, 273, 966-972	8.5	69
49	Wearable Ring-Based Sensing Platform for Detecting Chemical Threats. *ACS Sensors*, **2017**, 2, 1531-1538	9.2	67
48	A microneedle biosensor for minimally-invasive transdermal detection of nerve agents. *Analyst, The* , **2017**, 142, 918-924	5	66
47	Detection of vapor-phase organophosphate threats using wearable conformable integrated epidermal and textile wireless biosensor systems. *Biosensors and Bioelectronics*, **2018**, 101, 227-234	11.8	65
46	Detection of antibiotics in food: New achievements in the development of biosensors. *TrAC - Trends in Analytical Chemistry*, **2020**, 127, 115883	14.6	63
45	Electrochemical Aptasensors for Food and Environmental Safeguarding: A Review. *Biosensors*, **2018** , 8,	5.9	60

44	Continuous Opioid Monitoring along with Nerve Agents on a Wearable Microneedle Sensor Array. *Journal of the American Chemical Society*, **2020**, 142, 5991-5995	16.4	59
43	A novel electrochemical aptamer-antibody sandwich assay for lysozyme detection. *Analyst, The*, **2015**, 140, 4148-53	5	58
42	Recent advances and perspectives in sweat based wearable electrochemical sensors. *TrAC - Trends in Analytical Chemistry*, **2020**, 131, 116024	14.6	55
41	Simultaneous detection of salivary Δ-tetrahydrocannabinol and alcohol using a Wearable Electrochemical Ring Sensor. *Talanta*, **2020**, 211, 120757	6.2	51
40	Label free aptasensor for Lysozyme detection: A comparison of the analytical performance of two aptamers. *Bioelectrochemistry*, **2015**, 105, 72-7	5.6	47
39	Sensitive analytical performance of folding based biosensor using methylene blue tagged aptamers. *Talanta*, **2016**, 153, 138-44	6.2	46
38	Ionic Liquid-Modified Disposable Electrochemical Sensor Strip for Analysis of Fentanyl. *Analytical Chemistry*, **2019**, 91, 3747-3753	7.8	42
37	Flow injection analysis biosensor for urea analysis in adulterated milk using enzyme thermistor. *Biosensors and Bioelectronics*, **2010**, 26, 1560-4	11.8	41
36	Carboxylic group riched graphene oxide based disposable electrochemical immunosensor for cancer biomarker detection. *Analytical Biochemistry*, **2018**, 545, 13-19	3.1	40
35	Chemical Sensing at the Robot Fingertips: Toward Automated Taste Discrimination in Food Samples. *ACS Sensors*, **2018**, 3, 2375-2384	9.2	40
34	Application of Electrochemical Aptasensors toward Clinical Diagnostics, Food, and Environmental Monitoring: Review. *Sensors*, **2019**, 19,	3.8	38
33	Development of an aptasensor based on a fluorescent particles-modified aptamer for ochratoxin A detection. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 7815-22	4.4	35
32	Automated flow based biosensor for quantification of binary organophosphates mixture in milk using artificial neural network. *Sensors and Actuators B: Chemical*, **2015**, 208, 228-237	8.5	35
31	Point-of-use robotic sensors for simultaneous pressure detection and chemical analysis. *Materials Horizons*, **2019**, 6, 604-611	14.4	30
30	Electrospinning of graphene-oxide onto screen printed electrodes for heavy metal biosensor. *Sensors and Actuators B: Chemical*, **2017**, 247, 366-373	8.5	28
29	A novel colorimetric competitive aptamer assay for lysozyme detection based on superparamagnetic nanobeads. *Talanta*, **2017**, 165, 436-441	6.2	27
28	Rotibot: Use of Rotifers as Self-Propelling Biohybrid Microcleaners. *Advanced Functional Materials*, **2019**, 29, 1900658	15.6	25
27	Titanium Dioxide Nanoparticles (TiO_2) Quenching Based Aptasensing Platform: Application to Ochratoxin A Detection. *Toxins*, **2015**, 7, 3771-84	4.9	23

26	Electrochemical diagnostics of infectious viral diseases: Trends and challenges. *Biosensors and Bioelectronics*, **2021**, 180, 113112	11.8	22
25	Low cost optical device for detection of fluorescence from Ochratoxin A using a CMOS sensor. *Sensors and Actuators B: Chemical*, **2017**, 246, 606-614	8.5	17
24	An electrochemical sensor based on TiO2/activated carbon nanocomposite modified screen printed electrode and its performance for phenolic compounds detection in water samples. *International Journal of Environmental Analytical Chemistry*, **2016**, 96, 237-246	1.8	17
23	Epidermal Tattoo Patch for Ultrasound-Based Transdermal Microballistic Delivery. *Advanced Materials Technologies*, **2017**, 2, 1700210	6.8	14
22	A high sensitivity micro format chemiluminescence enzyme inhibition assay for determination of Hg(II). *Sensors*, **2010**, 10, 6377-94	3.8	13
21	OPAA/fluoride biosensor chip towards field detection of G-type nerve agents. *Sensors and Actuators B: Chemical*, **2020**, 320, 128344	8.5	11
20	Portable and low cost fluorescence set-up for in-situ screening of Ochratoxin A. *Talanta*, **2016**, 159, 395-400	4.0	10
19	Identification of potential vaccine candidates againstSARS-CoV-2, A step forward to fight COVID-19: A Reverse Vaccinology Approach		10
18	Design of a fluorescence aptaswitch based on the aptamer modulated nano-surface impact on the fluorescence particles. *RSC Advances*, **2016**, 6, 65579-65587	3.7	10
17	A high-throughput enzyme assay for organophosphate residues in milk. *Sensors*, **2010**, 10, 11274-86	3.8	9
16	Detoxification of organophosphate residues using phosphotriesterase and their evaluation using flow based biosensor. *Analytica Chimica Acta*, **2012**, 745, 64-9	6.6	8
15	Evaluation of extraction methods for ochratoxin A detection in cocoa beans employing HPLC. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2016**, 33, 500-8	3.2	7
14	Self-assembled ruthenium decorated electrochemical platform for sensitive and selective determination of amisulpride in presence of co-administered drugs using safranin as a mediator. *Microchemical Journal*, **2021**, 164, 106061	4.8	6
13	Determination of methyl parathion in water and its removal on zirconia using optical enzyme assay. *Applied Biochemistry and Biotechnology*, **2011**, 164, 906-17	3.2	5
12	Optical Biosensors for Diagnostics of Infectious Viral Disease: A Recent Update. *Diagnostics*, **2021**, 11,	3.8	5
11	Ehydroxymyristic acid as a chemical marker to detect endotoxins in dialysis water. *Analytical Biochemistry*, **2015**, 470, 71-7	3.1	4
10	Biotic Strategies for Toxic Heavy Metal Decontamination. *Recent Patents on Biotechnology*, **2017**, 11, 218-228	2.2	4
9	Design of a portable luminescence bio-tool for on-site analysis of heavy metals in water samples. *International Journal of Environmental Analytical Chemistry*, **2018**, 98, 1081-1094	1.8	4

List of Publications

8	Ligand Assisted Stabilization of Fluorescence Nanoparticles; an Insight on the Fluorescence Characteristics, Dispersion Stability and DNA Loading Efficiency of Nanoparticles. *Journal of Fluorescence*, **2016**, 26, 1407-14	2.4	3
7	Comparative Proteome Analysis of Mycobacterium Tuberculosis Strains - H37Ra, H37Rv, CCDC5180, and CAS/NITR204: A Step Forward to Identify Novel Drug Targets. *Letters in Drug Design and Discovery*, **2020**, 17, 1422-1431	0.8	1
6	Octahedral Cuprous Oxide Decorated Flexible Reduced Graphene Oxide Paper for Food Sensing Application. *Electroanalysis*, **2021**, 33, 1461-1470	3	1
5	Identification of Potential Vaccine Candidates Against SARS-CoV-2 to Fight COVID-19: Reverse Vaccinology Approach. **2022**, 3, e32401		0
4	Investigation of the thermal stability of the antihypertensive drug nebivolol under different conditions: Experimental and computational analysis. *Journal of Thermal Analysis and Calorimetry*,1	4.1	0
3	Electrochemical sensor for rapid detection of fentanyl using laser-induced porous carbon-electrodes.. *Mikrochimica Acta*, **2022**, 189, 198	5.8	0
2	Advances of Drugs Electroanalysis Based on Direct Electrochemical Redox on Electrodes: A Review.. *Critical Reviews in Analytical Chemistry*, **2022**, 1-46	5.2	0
1	Recent developments of molecular/biosensor diagnostics for SARS-CoV-2 detection **2022**, 167-187		