Jahir A Orozco

List of Publications by Year
in descending order

72 papers	5,368 citations	109321 35 h-index	85541 71 g-index
73 all docs	73 docs citations	73 times ranked	4316 citing authors

#	Article	IF	Citations
1	Highly Efficient Catalytic Microengines: Template Electrosynthesis of Polyaniline/Platinum Microtubes. Journal of the American Chemical Society, 2011, 133, 11862-11864.	13.7	492
2	Functionalized Ultrasound-Propelled Magnetically Guided Nanomotors: Toward Practical Biomedical Applications. ACS Nano, 2013, 7, 9232-9240.	14.6	386
3	Superhydrophobic Alkanethiol-Coated Microsubmarines for Effective Removal of Oil. ACS Nano, 2012, 6, 4445-4451.	14.6	371
4	Water-Driven Micromotors for Rapid Photocatalytic Degradation of Biological and Chemical Warfare Agents. ACS Nano, 2014, 8, 11118-11125.	14.6	316
5	Bacterial Isolation by Lectin-Modified Microengines. Nano Letters, 2012, 12, 396-401.	9.1	300
6	Self-Propelled Activated Carbon Janus Micromotors for Efficient Water Purification. Small, 2015, 11, 499-506.	10.0	259
7	Artificial Enzyme-Powered Microfish for Water-Quality Testing. ACS Nano, 2013, 7, 818-824.	14.6	226
8	Molecularly Imprinted Polymer-Based Catalytic Micromotors for Selective Protein Transport. Journal of the American Chemical Society, 2013, 135, 5336-5339.	13.7	194
9	Multiâ€Fuel Driven Janus Micromotors. Small, 2013, 9, 467-471.	10.0	184
10	Micromotorâ€Based Highâ€Yielding Fast Oxidative Detoxification of Chemical Threats. Angewandte Chemie - International Edition, 2013, 52, 13276-13279.	13.8	184
11	Micromotor-based lab-on-chip immunoassays. Nanoscale, 2013, 5, 1325-1331.	5.6	146
12	ISFET Based Microsensors for Environmental Monitoring. Sensors, 2010, 10, 61-83.	3.8	144
13	Motion-driven sensing and biosensing using electrochemically propelled nanomotors. Analyst, The, 2011, 136, 4621.	3.5	144
14	Bubble-Propelled Micromotors for Enhanced Transport of Passive Tracers. Langmuir, 2014, 30, 5082-5087.	3.5	136
15	Dynamic Isolation and Unloading of Target Proteins by Aptamer-Modified Microtransporters. Analytical Chemistry, 2011, 83, 7962-7969.	6.5	122
16	Multifunctional Silverâ€Exchanged Zeolite Micromotors for Catalytic Detoxification of Chemical and Biological Threats. Advanced Functional Materials, 2015, 25, 2147-2155.	14.9	117
17	Graphene-based Janus micromotors for the dynamic removal of pollutants. Journal of Materials Chemistry A, 2016, 4, 3371-3378.	10.3	112
18	Toward inÂvivo detection of hydrogen peroxide with ultrasound molecular imaging. Biomaterials, 2013, 34, 8918-8924.	11.4	93

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19	Micromotor-based onâ€“off fluorescence detection of sarin and soman simulants. Chemical Communications, 2015, 51, 11190-11193.	4.1	76
20	Efficient Biocatalytic Degradation of Pollutants by Enzymeâ€Releasing Selfâ€Propelled Motors. Chemistry - A European Journal, 2014, 20, 2866-2871.	3.3	71
21	Molecular Techniques for the Detection of Organisms in Aquatic Environments, with Emphasis on Harmful Algal Bloom Species. Sensors, 2017, 17, 1184.	3.8	70
22	Recent Advances in Polymeric Nanoparticle-Encapsulated Drugs against Intracellular Infections. Molecules, 2020, 25, 3760.	3.8	66
23	Efficient bubble propulsion of polymer-based microengines in real-life environments. Nanoscale, 2013, 5, 8909.	5.6	54
24	Micromotors to capture and destroy anthrax simulant spores. Analyst, The, 2015, 140, 1421-1427.	3.5	53
25	Multiplexed immunoassay based on micromotors and microscale tags. Lab on A Chip, 2014, 14, 3505.	6.0	49
26	Underpotential Depositionâ^'Anodic Stripping Voltammetric Detection of Copper at Gold Nanoparticle-Modified Ultramicroelectrode Arrays. Environmental Science & Technology, 2008, 42, 4877-4882.	10.0	48
27	Electrochemical Biosensors for Determination of Colorectal Tumor Biomarkers. Micromachines, 2020, 11, 411.	2.9	45
28	Flow injection analysis system based on amperometric thin-film transducers for free chlorine detection in swimming pool waters. Talanta, 2009, 77, 1739-1744.	5.5	44
29	Gold nanoparticle/DNA-based nanobioconjugate for electrochemical detection of Zika virus. Mikrochimica Acta, 2020, 187, 594.	5.0	43
30	Ultramicroelectrode Array Based Sensors: A Promising Analytical Tool for Environmental Monitoring. Sensors, 2010, 10, 475-490.	3.8	40
31	Amperometric biosensor based on a single antibody of dual function for rapid detection of Streptococcus agalactiae. Biosensors and Bioelectronics, 2017, 87, 453-458.	10.1	40
32	Scalable fabrication of immunosensors based on carbon nanotube polymer composites. Nanotechnology, 2008, 19, 075102.	2.6	37
33	Genosensors for differential detection of Zika virus. Talanta, 2020, 210, 120648.	5.5	37
34	Peptide-based simple detection of SARS-CoV-2 with electrochemical readout. Analytica Chimica Acta, 2022, 1205, 339739.	5.4	37
35	Plasma-activated multi-walled carbon nanotubeâ€“polystyrene composite substrates for biosensing. Nanotechnology, 2009, 20, 335501.	2.6	36
36	Gold nanoparticle-modified ultramicroelectrode arrays for biosensing: A comparative assessment. Bioelectrochemistry, 2009, 75, 176-181.	4.6	35

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37	Photosensitive nanocarriers for specific delivery of cargo into cells. Scientific Reports, 2020, 10, 2110.	3.3	35
38	Composite planar electrode for sensing electrochemical oxygen demand. Analytica Chimica Acta, 2008, 607, 176-182.	5.4	34
39	Characterization of ultramicroelectrode arrays combining electrochemical techniques and optical microscopy imaging. Electrochimica Acta, 2007, 53, 729-736.	5.2	33
40	Electrochemical performance of a DNA-based sensor device for detecting toxic algae. Sensors and Actuators B: Chemical, 2011, 153, 71-77.	7.8	33
41	Architecting Graphene Oxide Rolledâ€Up Micromotors: A Simple Paperâ€Based Manufacturing Technology. Small, 2018, 14, 1702746.	10.0	29
42	Advances in Functionalized Photosensitive Polymeric Nanocarriers. Polymers, 2021, 13, 2464.	4.5	25
43	SARS-CoV-2 electrochemical immunosensor based on the spike-ACE2 complex. Analytica Chimica Acta, 2022, 1205, 339718.	5.4	25
44	Electrochemical RNA genosensors for toxic algal species: enhancing selectivity and sensitivity. Talanta, 2016, 161, 560-566.	5.5	23
45	Synthesis of graphene-coated carbon nanotubes-supported metal nanoparticles as multifunctional hybrid materials. Carbon, 2017, 111, 393-401.	10.3	21
46	Portable system based on microsensors for environmental monitoring applications. Measurement Science and Technology, 2007, 18, 935-940.	2.6	17
47	Evaluation of probe orientation and effect of the digoxigenin-enzymatic label in a sandwich hybridization format to develop toxic algae biosensors. Harmful Algae, 2011, 10, 489-494.	4.8	17
48	Review: advances in electrochemical genosensors-based methods for monitoring blooms of toxic algae. Environmental Science and Pollution Research, 2013, 20, 6838-6850.	5.3	17
49	Wearable electrochemical biosensors to measure biomarkers with complex blood-to-sweat partition such as proteins and hormones. Mikrochimica Acta, 2022, 189, 127.	5.0	17
50	Nanobioconjugates for Signal Amplification in Electrochemical Biosensing. Molecules, 2020, 25, 3542.	3.8	16
51	Phosphoglycan-sensitized platform for specific detection of anti-glycan IgG and IgM antibodies in serum. Talanta, 2020, 217, 121117.	5.5	16
52	Hybrid nanomaterial/catalase-modified electrode for hydrogen peroxide sensing. Journal of Electroanalytical Chemistry, 2021, 880, 114826.	3.8	16
53	Electrochemical genosensor for the specific detection of SARS-CoV-2. Talanta, 2022, 245, 123482.	5.5	16
54	Metabolic Activity of Anthocyanin Extracts Loaded into Non-ionic Niosomes in Diet-Induced Obese Mice. Pharmaceutical Research, 2020, 37, 152.	3.5	15

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55	Functional Nanocarriers for Delivering Itraconazole Against Fungal Intracellular Infections. Frontiers in Pharmacology, 2021, 12, 685391.	3.5	14
56	Polymeric Micro/Nanocarriers and Motors for Cargo Transport and Phototriggered Delivery. Polymers, 2021, 13, 3920.	4.5	14
57	Î²-1,4-Galactosyltransferase-V colorectal cancer biomarker immunosensor with label-free electrochemical detection. Talanta, 2022, 243, 123337.	5.5	14
58	Photosensitive Polymeric Janus Micromotor for Enzymatic Activity Protection and Enhanced Substrate Degradation. ACS Applied Materials & Interfaces, 2022, 14, 5897-5907.	8.0	12
59	Hybrid Nanobioengineered Nanomaterial-Based Electrochemical Biosensors. Molecules, 2022, 27, 3841.	3.8	11
60	Electrochemical Performance of Selfâ€Assembled Monolayer Gold Nanoparticleâ€Modified Ultramicroelectrode Array Architectures. Electroanalysis, 2012, 24, 635-642.	2.9	10
61	Electroanalysis of an Iron@Grapheneâ€Carbon Nanotube Hybrid Material. Electroanalysis, 2018, 30, 1521-1528.	2.9	10
62	Light-Triggered Polymersome-Based Anticancer Therapeutics Delivery. Nanomaterials, 2022, 12, 836.	4.1	8
63	Cerium oxideâ€“doped PEDOT nanocomposite for label-free electrochemical immunosensing of anti-p53 autoantibodies. Mikrochimica Acta, 2022, 189, .	5.0	8
64	Monitoring of bentonite pore water with a probe based on solid-state microsensors. Analytica Chimica Acta, 2006, 579, 95-101.	5.4	7
65	Electrochemical Nanobiosensors as Pointâ€ofâ€Care Testing Solution to Cytokines Measurement Limitations. Electroanalysis, 2022, 34, 184-211.	2.9	7
66	Assessing the Influence of the Sourcing Voltage on Polyaniline Composites for Stress Sensing Applications. Polymers, 2020, 12, 1164.	4.5	7
67	Detection of hepatitis E virus genotype 3 in wastewater by an electrochemical genosensor. Analytica Chimica Acta, 2022, 1221, 340121.	5.4	4
68	Gold nanoparticle-modified ultramicroelectrode arrays: A suitable transducer platform for the development of biosensors. Procedia Chemistry, 2009, 1, 666-669.	0.7	3
69	Electrochemical Detection of Harmful Algae by Means of a Sandwich Hybridization Assay on an Electrode Surface. Springer Protocols, 2012, , 243-261.	0.3	1
70	Genetic Modification Approaches for Parasporins Bacillus thuringiensis Proteins with Anticancer Activity. Molecules, 2021, 26, 7476.	3.8	1
71	Biosensors: Biosensors With Signal Amplification. , 2021, , .		0
72	Differential detection of zika virus based on PCR. Journal of Virological Methods, 2022, 301, 114459.	2.1	0