

Zhugen Yang

List of Publications by Citations

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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.

71
papers

2,140
citations

27
h-index

45
g-index

75
ext. papers

2,785
ext. citations

8.7
avg, IF

5.71
L-index

#	Paper	IF	Citations
71	Opportunities and Challenges for Biosensors and Nanoscale Analytical Tools for Pandemics: COVID-19. <i>ACS Nano</i> , 2020 , 14, 7783-7807	16.7	179
70	Paper-based microfluidics for DNA diagnostics of malaria in low resource underserved rural communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4834-4842	11.5	145
69	Measuring biomarkers in wastewater as a new source of epidemiological information: Current state and future perspectives. <i>Environment International</i> , 2017 , 99, 131-150	12.9	141
68	Can a Paper-Based Device Trace COVID-19 Sources with Wastewater-Based Epidemiology?. <i>Environmental Science & Technology</i> , 2020 , 54, 3733-3735	10.3	128
67	Crystallization behavior and melting characteristics of PP nucleated by a novel supported Ehnucleating agent. <i>Polymer</i> , 2008 , 49, 5137-5145	3.9	94
66	Graphene nanocomposites modified electrochemical aptamer sensor for rapid and highly sensitive detection of prostate specific antigen. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 41-46	11.8	90
65	Preparation and characteristics of nano-CaCO ₃ supported Ehnucleating agent of polypropylene. <i>European Polymer Journal</i> , 2008 , 44, 1955-1961	5.2	80
64	Wastewater-based epidemiology to assess pan-European pesticide exposure. <i>Water Research</i> , 2017 , 121, 270-279	12.5	75
63	Enantiomeric profiling of chiral illicit drugs in a pan-European study. <i>Water Research</i> , 2018 , 130, 151-160	12.5	69
62	Estimation of caffeine intake from analysis of caffeine metabolites in wastewater. <i>Science of the Total Environment</i> , 2017 , 609, 1582-1588	10.2	66
61	Nanomaterial-based aptamer sensors for arsenic detection. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111785	11.8	61
60	Rapid Veterinary Diagnosis of Bovine Reproductive Infectious Diseases from Semen Using Paper-Origami DNA Microfluidics. <i>ACS Sensors</i> , 2018 , 3, 403-409	9.2	53
59	A novel immobilization strategy for electrochemical detection of cancer biomarkers: DNA-directed immobilization of aptamer sensors for sensitive detection of prostate specific antigens. <i>Analyst</i> , 2015 , 140, 2628-33	5	51
58	Comprehensive review of the basic chemical behaviours, sources, processes, and endpoints of trace element contamination in paddy soil-rice systems in rice-growing countries. <i>Journal of Hazardous Materials</i> , 2020 , 397, 122720	12.8	48
57	Community sewage sensors for monitoring public health. <i>Environmental Science & Technology</i> , 2015 , 49, 5845-6	10.3	46
56	Efficient removal of Cd(II) from aqueous solution by pinecone biochar: Sorption performance and governing mechanisms. <i>Environmental Pollution</i> , 2020 , 265, 115001	9.3	44
55	A novel colorimetric biosensor based on non-aggregated Au@Ag core-shell nanoparticles for methamphetamine and cocaine detection. <i>Talanta</i> , 2017 , 175, 338-346	6.2	42

54	Improvement of protein immobilization for the elaboration of tumor-associated antigen microarrays: application to the sensitive and specific detection of tumor markers from breast cancer sera. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 385-92	11.8	39
53	A novel DNA biosensor using a ferrocenyl intercalator applied to the potential detection of human population biomarkers in wastewater. <i>Environmental Science & Technology</i> , 2015 , 49, 5609-17	10.3	36
52	Effects of polyamide 6 on the crystallization and melting behavior of β -nucleated polypropylene. <i>European Polymer Journal</i> , 2008 , 44, 3754-3763	5.2	36
51	A novel biosensor based on Au@Ag core-shell nanoparticles for sensitive detection of methylamphetamine with surface enhanced Raman scattering. <i>Talanta</i> , 2018 , 190, 263-268	6.2	35
50	Monitoring Genetic Population Biomarkers for Wastewater-Based Epidemiology. <i>Analytical Chemistry</i> , 2017 , 89, 9941-9945	7.8	33
49	Recent advances in biochar engineering for soil contaminated with complex chemical mixtures: Remediation strategies and future perspectives. <i>Science of the Total Environment</i> , 2021 , 767, 144351	10.2	30
48	Community Sewage Sensors towards Evaluation of Drug Use Trends: Detection of Cocaine in Wastewater with DNA-Directed Immobilization Aptamer Sensors. <i>Scientific Reports</i> , 2016 , 6, 21024	4.9	28
47	Characterization of three amino-functionalized surfaces and evaluation of antibody immobilization for the multiplex detection of tumor markers involved in colorectal cancer. <i>Langmuir</i> , 2013 , 29, 1498-509 ⁴		28
46	Preparation, crystallization behavior, and melting characteristics of β -nucleated isotactic polypropylene blends with polyamide 6. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1-8	2.9	28
45	An integrated biosensor system with mobile health and wastewater-based epidemiology (iBMW) for COVID-19 pandemic. <i>Biosensors and Bioelectronics</i> , 2020 , 169, 112617	11.8	28
44	Paper-based microfluidics for rapid diagnostics and drug delivery. <i>Journal of Controlled Release</i> , 2020 , 322, 187-199	11.7	25
43	Rapid duplexed detection of illicit drugs in wastewater using gold nanoparticle conjugated aptamer sensors. <i>Science of the Total Environment</i> , 2019 , 688, 771-779	10.2	25
42	Crystallization and melting behavior of β -nucleated isotactic polypropylene/polyamide 6 blends with maleic anhydride grafted polyethylene-vinyl acetate as a compatibilizer. <i>Thermochimica Acta</i> , 2010 , 511, 152-158	2.9	23
41	Low sample volume origami-paper-based graphene-modified aptasensors for label-free electrochemical detection of cancer biomarker-EGFR. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 32	7.7	22
40	Melting characteristic and β -crystal content of β -nucleated polypropylene/polyamide 6 alloys prepared using different compounding methods. <i>Polymer International</i> , 2009 , 58, 1366-1372	3.3	21
39	Improved multiple-particle tracking for studying flows in multiphase systems. <i>AIChE Journal</i> , 2007 , 53, 1941-1951	3.6	20
38	Biosensors for wastewater-based epidemiology for monitoring public health. <i>Water Research</i> , 2021 , 191, 116787	12.5	20
37	Insights into the mechanisms of arsenic-selenium interactions and the associated toxicity in plants, animals, and humans: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 704-750	11.1	20

36	Miniaturized analytical methods for determination of environmental contaminants of emerging concern - A review. <i>Analytica Chimica Acta</i> , 2021 , 1158, 238108	6.6	20
35	G-quadruplex-DNAzyme molecular beacon probe for the detection of methamphetamine. <i>RSC Advances</i> , 2016 , 6, 62754-62759	3.7	18
34	Paper-based microfluidic aptasensors. <i>Biosensors and Bioelectronics</i> , 2020 , 170, 112649	11.8	15
33	Paper-based nanosensors to evaluate community-wide illicit drug use for wastewater-based epidemiology. <i>Water Research</i> , 2021 , 189, 116559	12.5	15
32	Bioaccumulation of Hg in Rice Leaf Facilitates Selenium Bioaccumulation in Rice (.) Leaf in the Wanshan Mercury Mine. <i>Environmental Science & Technology</i> , 2020 , 54, 3228-3236	10.3	14
31	Paper-based devices for rapid diagnostics and testing sewage for early warning of COVID-19 outbreak. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020 , 2, 100064	7.5	14
30	Subsequent monitoring of ferric ion and ascorbic acid using graphdiyne quantum dots-based optical sensors. <i>Mikrochimica Acta</i> , 2020 , 187, 657	5.8	14
29	Enantiomeric profiling of quinolones and quinolones resistance gene qnrS in European wastewaters. <i>Water Research</i> , 2020 , 175, 115653	12.5	13
28	Cancer biomarkers detection using 3D microstructured protein chip: Implementation of customized multiplex immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 22-28	8.5	13
27	Nonisothermal crystallization and melting behavior of nucleated isotactic polypropylene and polyamide 66 blends. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3566-3573	2.9	13
26	Occurrence of various viruses and recent evidence of SARS-CoV-2 in wastewater systems. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125439	12.8	13
25	Nanomaterial-based aptamer sensors for analysis of illicit drugs and evaluation of drugs consumption for wastewater-based epidemiology. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 130, 115974	14.6	9
24	Customizable fabrication for auxetic graphene assembled macrofilms with high conductivity and flexibility. <i>Carbon</i> , 2020 , 162, 545-551	10.4	8
23	High Altitude Platforms for Wireless Sensor Network applications 2008 ,		7
22	On the Cost-Effective Wireless Broadband Service Delivery from High Altitude Platforms with an Economical Business Model Design 2008 ,		5
21	Business model design for capacity-driven services from High Altitude Platforms 2008 ,		4
20	Droplet microfluidics on analysis of pathogenic microbes for wastewater-based epidemiology. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116333	14.6	4
19	Sensor fault detection for industrial systems using a hierarchical clustering-based graphical user interface 2012 ,		3

18	A Study of Multiple Access Schemes for Wireless Sensor Network Applications via High Altitude Systems 2009 ,		3
17	Sensor fault detection for industrial gas turbine system by using principal component analysis based y-distance indexes 2012 ,		3
16	Paper microfluidic implementation of loop mediated isothermal amplification for early diagnosis of hepatitis C virus. <i>Nature Communications</i> , 2021 , 12, 6994	17.4	3
15	Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018 , 210, 451-479	3.6	3
14	PREPARATION OF CORE-SHELL SILVER/SILICA NANOPARTICLES AND THEIR APPLICATION FOR ENHANCEMENT OF CYANINE 3 FLUORESCENCE. <i>International Journal of Nanoscience</i> , 2012 , 11, 1240020 ^{0.6}		2
13	Applied sensor fault detection and validation using transposed input data PCA and ANNs 2012 ,		2
12	Rapid methods for antimicrobial resistance diagnosis in contaminated soils for effective remediation strategy. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 137, 116203	14.6	2
11	The status of potable water reuse implementation.. <i>Water Research</i> , 2022 , 214, 118198	12.5	2
10	AuAg nanocages/graphdiyne for rapid elimination and detection of trace pathogenic bacteria.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 376-383	9.3	1
9	Processes at nanoelectrodes: general discussion. <i>Faraday Discussions</i> , 2018 , 210, 235-265	3.6	1
8	Paper-Based Devices As a New Tool for Rapid and on-Site Monitoring of "Superbugs". <i>Environmental Science & Technology</i> , 2021 , 55, 12133-12135	10.3	1
7	Rolling Circle Amplification as an Efficient Analytical Tool for Rapid Detection of Contaminants in Aqueous Environments. <i>Biosensors</i> , 2021 , 11,	5.9	1
6	Reprogrammed tracrRNAs enable repurposing of RNAs as crRNAs and sequence-specific RNA biosensors.. <i>Nature Communications</i> , 2022 , 13, 1937	17.4	1
5	Micro/Nano biomedical devices for point-of-care diagnosis of infectious respiratory diseases.. <i>Medicine in Novel Technology and Devices</i> , 2022 , 100116	2.1	0
4	Large-Area and Clean Graphene Transfer on Gold-Nanopyramid-Structured Substrates: Implications for Surface-Enhanced Raman Scattering Detection. <i>ACS Applied Nano Materials</i> , 2022 , 5, 3878-3888	5.6	0
3	Cancer Biomarkers Detection using Microstructured Protein Chip: Implementation of Customized Multiplex Immunoassay. <i>Procedia Engineering</i> , 2011 , 25, 952-955		
2	Risk Assessment of Container Supply Chains Using Methods of Uncertainty Treatment. <i>Safety and Reliability</i> , 2005 , 26, 29-38	0.4	
1	Energy conversion at nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018 , 210, 333-351	3.6	

