

# Xu Yu

## 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.

65  
papers

2,403  
citations

25  
h-index

48  
g-index

67  
ext. papers

2,820  
ext. citations

9  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
65	MOF-templated synthesis of cobalt-doped zinc oxide superparticles for detection of the 3-hydroxy-2-butanone microbial biomarker. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 358, 131482	8.5	1
64	Bioinspired three-dimensional hierarchical micro/nano-structured microdevice for enhanced capture and effective release of circulating tumor cells. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134762	14.7	2
63	One-pot synthesis of boron and nitrogen co-doped silicon-carbon dots for fluorescence enhancement and on-site colorimetric detection of dopamine with high selectivity. <i>Applied Surface Science</i> , <b>2022</b> , 573, 151457	6.7	1
62	Array-based sensing of amyloidogenic proteins and discrimination of cancer by using different oxidants doped carbon nanodots as fluorescent probes. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132696	14.7	2
61	Hydrophilic silicon nanoparticles as a turn-off and colorimetric fluorescent probe for curcuminoids detection in food samples and cell imaging. <i>Food Chemistry</i> , <b>2022</b> , 366, 130629	8.5	1
60	Au -Functionalized UiO-67 Metal-Organic Framework Nanoparticles: O and DH Generating Nanozymes and Their Antibacterial Functions.. <i>Small</i> , <b>2022</b> , e2200548	11	2
59	Recent developments in the removal of metal-based engineered nanoparticles from the aquatic environments by adsorption. <i>Chemosphere</i> , <b>2021</b> , 291, 133089	8.4	1
58	Amplified fluorescence detection and adsorption of Au by the fluorescent melamine formaldehyde microspheres incorporated with N and S co-doped carbon dots. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 123978	12.8	11
57	Recent advances in visual detection for cancer biomarkers and infectious pathogens. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 35-52	7.3	4
56	Microwave-assisted solid-phase synthesis of nitrogen-doping carbon dot with good solvent compatibility and its sensing of sunitinib. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 6435-6447	4.4	0
55	Recent advances of emerging microfluidic chips for exosome mediated cancer diagnosis. <i>Smart Materials in Medicine</i> , <b>2021</b> , 2, 158-171	12.9	3
54	Intracellular Entropy-Driven Multi-Bit DNA Computing for Tumor Progression Discrimination. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13267-13272	16.4	28
53	Intracellular Entropy-Driven Multi-Bit DNA Computing for Tumor Progression Discrimination. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13369-13374	3.6	8
52	Highly efficient removal of silver nanoparticles by sponge-like hierarchically porous thiourea-formaldehyde resin from Water. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123184	12.8	8
51	Differentiated Visualization of Single-Cell 5-Hydroxymethylpyrimidines with Microfluidic Hydrogel Encoding. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2889-2896	16.4	18
50	The Recent Advances of Fluorescent Sensors Based on Molecularly Imprinted Fluorescent Nanoparticles for Pharmaceutical Analysis. <i>Current Medical Science</i> , <b>2020</b> , 40, 407-421	2.8	16
49	Enrichment of extracellular vesicles with lipid nanoprobe functionalized nanostructured silica. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2346-2355	7.2	17

48	Engineering microfluidic chip for circulating tumor cells: From enrichment, release to single cell analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 117, 27-38	14.6	24
47	Smartphone-Based Point-of-Care Microfluidic Platform Fabricated with a ZnO Nanorod Template for Colorimetric Virus Detection. <i>ACS Sensors</i> , <b>2019</b> , 4, 3298-3307	9.2	42
46	Mitochondria-based aircraft carrier enhances in vivo imaging of carbon quantum dots and delivery of anticancer drug. <i>Nanoscale</i> , <b>2018</b> , 10, 3744-3752	7.7	36
45	Size-based separation methods of circulating tumor cells. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 125, 3-20	18.5	91
44	In Situ Caging of Biomolecules in Graphene Hybrids for Light Modulated Bioactivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3361-3371	9.5	2
43	Functional and Biomimetic DNA Nanostructures on Lipid Membranes. <i>Langmuir</i> , <b>2018</b> , 34, 14721-14730	4	13
42	Synthesis of spiny metal-phenolic coordination crystals as a sensing platform for sequence-specific detection of nucleic acids. <i>CrystEngComm</i> , <b>2018</b> , 20, 7626-7630	3.3	9
41	Nucleus of Circulating Tumor Cell Determines Its Translocation Through Biomimetic Microconstrictions and Its Physical Enrichment by Microfiltration. <i>Small</i> , <b>2018</b> , 14, e1802899	11	10
40	Evaluating a novel dimensional reduction approach for mechanical fractionation of cells using a tandem flexible micro spring array (tFMSA). <i>Lab on A Chip</i> , <b>2017</b> , 17, 691-701	7.2	3
39	Mimicking Horseradish Peroxidase Functions Using Cu-Modified Carbon Nitride Nanoparticles or Cu-Modified Carbon Dots as Heterogeneous Catalysts. <i>ACS Nano</i> , <b>2017</b> , 11, 3247-3253	16.7	226
38	A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection. <i>Small</i> , <b>2017</b> , 13, 1700425	11	48
37	Label-Free Virus Capture and Release by a Microfluidic Device Integrated with Porous Silicon Nanowire Forest. <i>Small</i> , <b>2017</b> , 13, 1603135	11	18
36	Drug Delivery: ATP-Responsive Aptamer-Based Metal-Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs (Adv. Funct. Mater. 37/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	2
35	ATP-Responsive Aptamer-Based Metal-Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702102	15.6	113
34	DNA-Mediated Assembly of Gold Nanoparticles and Applications in Bioanalysis. <i>ChemNanoMat</i> , <b>2017</b> , 3, 725-735	3.5	14
33	Pathogen Detection: A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection (Small 24/2017). <i>Small</i> , <b>2017</b> , 13,	11	1
32	Stimuli-responsive nucleic acid-functionalized metal-organic framework nanoparticles using pH- and metal-ion-dependent DNazymes as locks. <i>Chemical Science</i> , <b>2017</b> , 8, 5769-5780	9.4	131
31	Orthogonal Dual-Triggered Shape-Memory DNA-Based Hydrogels. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14504-7	4.8	29

30	Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , <b>2016</b> , 2, e1601026	14.3	55
29	Synthesis of Self-Assembled Multifunctional Nanocomposite Catalysts with Highly Stabilized Reactivity and Magnetic Recyclability. <i>Scientific Reports</i> , <b>2016</b> , 6, 25459	4.9	20
28	An immunoassay-based reverse-transcription loop-mediated isothermal amplification assay for the rapid detection of avian influenza H5N1 virus viremia. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 255-261	11.8	22
27	Graphene-Templated Synthesis of Magnetic Metal Organic Framework Nanocomposites for Selective Enrichment of Biomolecules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10234-42	9.5	56
26	Combination of dynamic magnetophoretic separation and stationary magnetic trap for highly sensitive and selective detection of Salmonella typhimurium in complex matrix. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 628-36	11.8	43
25	On-demand one-step synthesis of monodisperse functional polymeric microspheres with droplet microfluidics. <i>Langmuir</i> , <b>2015</b> , 31, 3982-92	4	23
24	Highly sensitive DNA detection using cascade amplification strategy based on hybridization chain reaction and enzyme-induced metallization. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 520-6	11.8	42
23	Nanomaterial integrated microfluidic devices for virus analysis <b>2015</b> ,		1
22	Nanostructured microfluidic digestion system for rapid high-performance proteolysis. <i>Lab on A Chip</i> , <b>2015</b> , 15, 650-4	7.2	12
21	Construction of a high-performance magnetic enzyme nanosystem for rapid tryptic digestion. <i>Scientific Reports</i> , <b>2014</b> , 4, 6947	4.9	64
20	Fast magnetic isolation of simple sequence repeat markers in microfluidic channels. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1410-4	7.2	11
19	Circulating tumor cells: advances in isolation and analysis, and challenges for clinical applications. <i>Pharmacology &amp; Therapeutics</i> , <b>2014</b> , 141, 209-21	13.9	139
18	Control of magnetic field distribution by using nickel powder@PDMS pillars in microchannels. <i>RSC Advances</i> , <b>2014</b> , 4, 17660-17666	3.7	18
17	Uniform fluorescent nanobioprobes for pathogen detection. <i>ACS Nano</i> , <b>2014</b> , 8, 5116-24	16.7	95
16	Facile synthesis of magnetic mesoporous hollow carbon microspheres for rapid capture of low-concentration peptides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12719-28	9.5	63
15	Flexible micro spring array device for high-throughput enrichment of viable circulating tumor cells. <i>Clinical Chemistry</i> , <b>2014</b> , 60, 323-33	5.5	103
14	Preparation of magnetic graphene composites with hierarchical structure for selective capture of phosphopeptides. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 4711-4719	7.3	24
13	Laminar flow mediated continuous single-cell analysis on a novel poly(dimethylsiloxane) microfluidic chip. <i>Analytica Chimica Acta</i> , <b>2014</b> , 820, 104-11	6.6	9

12	Point-of-care microdevices for blood plasma analysis in viral infectious diseases. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 2333-43	4.7	12
11	Separable bilayer microfiltration device for viable label-free enrichment of circulating tumour cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 7392	4.9	70
10	Picoliter droplets developed as microreactors for ultrafast synthesis of multi-color water-soluble CdTe quantum dots. <i>Chemical Communications</i> , <b>2013</b> , 49, 7114-6	5.8	23
9	Circulating tumor cell enrichment based on physical properties. <i>Journal of the Association for Laboratory Automation</i> , <b>2013</b> , 18, 455-68		103
8	A simple point-of-care microfluidic immunomagnetic fluorescence assay for pathogens. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2645-51	7.8	65
7	On-chip dual detection of cancer biomarkers directly in serum based on self-assembled magnetic bead patterns and quantum dots. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 129-36	11.8	67
6	Construction of CdSe/ZnS quantum dot microarray in a microfluidic chip. <i>Science China Chemistry</i> , <b>2012</b> , 55, 543-549	7.9	5
5	Fluorescent-magnetic-biotargeting multifunctional nanobioprobes for detecting and isolating multiple types of tumor cells. <i>ACS Nano</i> , <b>2011</b> , 5, 761-70	16.7	181
4	Controlling the magnetic field distribution on the micrometer scale and generation of magnetic bead patterns for microfluidic applications. <i>Langmuir</i> , <b>2011</b> , 27, 5147-56	4	34
3	Magnetic solid phase microextraction on a microchip combined with electrothermal vaporization-inductively coupled plasma mass spectrometry for determination of Cd, Hg and Pb in cells. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2010</b> , 25, 1931	3.7	88
2	Generation of water-ionic liquid droplet pairs in soybean oil on microfluidic chip. <i>Lab on A Chip</i> , <b>2010</b> , 10, 313-9	7.2	16
1	Integrated optical interferometer gas sensor. <i>Microwave and Optical Technology Letters</i> , <b>1996</b> , 11, 213-215		4