Tailin Xu

List of Publications by Year
in descending order

97 papers	6,780 citations	66343 42 h-index	62596 80 g-index
98 all docs	98 docs citations	98 times ranked	6177 citing authors

#	Article	IF	Citations
1	Amperometric Sarcosine Biosensors Based on Electrodeposited Conductive Films Contain Indoleâ€6â€carboxylic Acid. Electroanalysis, 2022, 34, 345-351.	2.9	8
2	Fully integrated flexible biosensor for wearable continuous glucose monitoring. Biosensors and Bioelectronics, 2022, 196, 113760.	10.1	74
3	Multifunctional hydrogel as wound dressing for intelligent wound monitoring. Chemical Engineering Journal, 2022, 433, 134625.	12.7	84
4	Microscale synthesis system for regulation and prediction of metal organic framework morphologies. Materials Today Chemistry, 2022, 23, 100767.	3.5	5
5	Wireless USB-like electrochemical platform for individual electrochemical sensing in microdroplets. Analytica Chimica Acta, 2022, 1197, 339526.	5.4	7
6	Portable electrochemical micro-workstation platform for simultaneous detection of multiple Alzheimerâ€™s disease biomarkers. Mikrochimica Acta, 2022, 189, 91.	5.0	19
7	Powering bioanalytical applications in biomedicine with light-responsive Janus micro-/nanomotors. Mikrochimica Acta, 2022, 189, 116.	5.0	17
8	Editorial: Integrated Point-of-Care Testing (POCT) Systems: Recent Progress and Applications. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851675.	4.1	1
9	Enhanced Isothermal Amplification for Ultrafast Sensing of SARS-CoV-2 in Microdroplets. Analytical Chemistry, 2022, 94, 4135-4140.	6.5	16
10	An electrochemical wearable sensor for levodopa quantification in sweat based on a metalâ€“Organic framework/graphene oxide composite with integrated enzymes. Sensors and Actuators B: Chemical, 2022, 359, 131586.	7.8	48
11	Jigsaw-like mini-pillar platform for multi-mode biosensing. Chinese Chemical Letters, 2022, 33, 3879-3882.	9.0	7
12	Radiative Cooling and Solar Heating Janus Films for Personal Thermal Management. ACS Applied Materials & Interfaces, 2022, 14, 18877-18883.	8.0	41
13	Hydrophilic metal-organic frameworks integrated uricase for wearable detection of sweat uric acid. Analytica Chimica Acta, 2022, 1208, 339843.	5.4	25
14	Cost-Effective Screening of Antimicrobial Performance of Multiple Metalâ€“Organic Frameworks via a Droplet-Based Batch Synthesis Platform. ACS Sustainable Chemistry and Engineering, 2022, 10, 6476-6482.	6.7	15
15	Ultra-trace enriching biosensing in nanoliter sample. Biosensors and Bioelectronics, 2022, 210, 114297.	10.1	11
16	Tunable Thermoresponsive Flexible Films for Adaptive Temperature Management and Visual Temperature Monitoring. ACS Applied Materials & Interfaces, 2022, 14, 29284-29291.	8.0	11
17	Flexible microfluidic nanoplasmonic sensors for refreshable and portable recognition of sweat biochemical fingerprint. Npj Flexible Electronics, 2022, 6, .	10.7	40
18	Multifunctional conductive hydrogel-based flexible wearable sensors. TrAC - Trends in Analytical Chemistry, 2021, 134, 116130.	11.4	207

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19	On-demand mixing and dispersion in mini-pillar based microdroplets. Nanoscale, 2021, 13, 739-745.	5.6	9
20	Target-triggered regioselective assembly of nanoprobes for Raman imaging of dual cancer biomarkers in living cells. Sensors and Actuators B: Chemical, 2021, 330, 129319.	7.8	11
21	Near-infrared light-driven yolk@shell carbon@silica nanomotors for fuel-free triglyceride degradation. Nano Research, 2021, 14, 654-659.	10.4	20
22	Detection of coronavirus in environmental surveillance and risk monitoring for pandemic control. Chemical Society Reviews, 2021, 50, 3656-3676.	38.1	46
23	Two-Dimensional Metalloporphyrinic Framework Nanosheet-Based Dual-Mechanism-Driven Ratiometric Electrochemiluminescent Biosensing of Protein Kinase Activity. ACS Applied Bio Materials, 2021, 4, 1616-1623.	4.6	24
24	Customizable Textile Sensors Based on Helical Coreâ€“Spun Yarns for Seamless Smart Garments. Langmuir, 2021, 37, 3122-3129.	3.5	24
25	(Keynote) Artificial Intelligence Biosensors: Challenges and Prospects. ECS Meeting Abstracts, 2021, MA2021-01, 1385-1385.	0.0	0
26	Rutheniumâ€based Conjugated Polymer and Metalâ€organic Framework Nanocomposites for Glucose Sensing. Electroanalysis, 2021, 33, 1902-1910.	2.9	14
27	Advanced micro/nanomotors for enhanced bioadhesion and tissue penetration. Applied Materials Today, 2021, 23, 101034.	4.3	21
28	An electrochemical aptasensor based on AuPt alloy nanoparticles for ultrasensitive detection of amyloid-Î² oligomers. Talanta, 2021, 231, 122360.	5.5	30
29	Miniâ€pillar Based Multiâ€channel Electrochemical Platform for Studying the Multifactor Silver Electrodeposition. Electroanalysis, 2021, 33, 2401-2405.	2.9	7
30	Acoustic aggregation-induced separation for enhanced fluorescence detection of Alzheimer's biomarker. Talanta, 2021, 233, 122517.	5.5	17
31	Flexible, self-healable, adhesive and wearable hydrogel patch for colorimetric sweat detection. Journal of Materials Chemistry C, 2021, 9, 14938-14945.	5.5	65
32	Wearable strain sensor for real-time sweat volume monitoring. IScience, 2021, 24, 102028.	4.1	41
33	Ultra-Trace Protein Detection by Integrating Lateral Flow Biosensor with Ultrasound Enrichment. Analytical Chemistry, 2021, 93, 2996-3001.	6.5	22
34	Biospired Janus Silk E-Textiles with Wetâ€“Thermal Comfort for Highly Efficient Biofluid Monitoring. Nano Letters, 2021, 21, 8880-8887.	9.1	71
35	Mini-pillar microarray for individually electrochemical sensing in microdroplets. Biosensors and Bioelectronics, 2020, 149, 111845.	10.1	23
36	Smartphone-based tape sensors for multiplexed rapid urinalysis. Sensors and Actuators B: Chemical, 2020, 304, 127415.	7.8	37

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37	Lateral flow biosensors based on the use of micro- and nanomaterials: a review on recent developments. Mikrochimica Acta, 2020, 187, 70.	5.0	81
38	Multiscale Disordered Porous Fibers for Self-Sensing and Self-Cooling Integrated Smart Sportswear. ACS Nano, 2020, 14, 559-567.	14.6	162
39	NIR powered Janus nanocarrier for deep tumor penetration. Applied Materials Today, 2020, 18, 100504.	4.3	29
40	Cancer Therapy: Cancer Cell Membrane Camouflaged Semiâ€Yolk@Spikyâ€Shell Nanomotor for Enhanced Cell Adhesion and Synergistic Therapy (Small 39/2020). Small, 2020, 16, 2070215.	10.0	0
41	Integrated Wound Recognition in Bandages for Intelligent Treatment. Advanced Healthcare Materials, 2020, 9, e2000941.	7.6	20
42	Cancer Cell Membrane Camouflaged Semiâ€Yolk@Spikyâ€Shell Nanomotor for Enhanced Cell Adhesion and Synergistic Therapy. Small, 2020, 16, e2003834.	10.0	54
43	Janus dendritic silica/carbon@Pt nanomotors with multiengines for H₂O₂, near-infrared light and lipase powered propulsion. Soft Matter, 2020, 16, 9553-9558.	2.7	31
44	Bioinspired Transport Surface Driven by Air Flow. Advanced Materials Interfaces, 2020, 7, 2001331.	3.7	4
45	Integrated Ultrasonic Aggregation-Induced Enrichment with Raman Enhancement for Ultrasensitive and Rapid Biosensing. Analytical Chemistry, 2020, 92, 7816-7821.	6.5	54
46	Construction of dendritic Janus nanomotors with H₂O₂ and NIR light dual-propulsion via a Pickering emulsion. Soft Matter, 2020, 16, 4961-4968.	2.7	23
47	Integrated individually electrochemical array for simultaneously detecting multiple Alzheimer's biomarkers. Biosensors and Bioelectronics, 2020, 162, 112253.	10.1	42
48	Droplet array for open-channel high-throughput SERS biosensing. Talanta, 2020, 218, 121206.	5.5	15
49	Integrated Smart Janus Textile Bands for Self-Pumping Sweat Sampling and Analysis. ACS Sensors, 2020, 5, 1548-1554.	7.8	120
50	Core@Satellite Janus Nanomotors with pHâ€Responsive Multiâ€phoretic Propulsion. Angewandte Chemie, 2020, 132, 14474-14478.	2.0	12
51	Core@Satellite Janus Nanomotors with pHâ€Responsive Multiâ€phoretic Propulsion. Angewandte Chemie - International Edition, 2020, 59, 14368-14372.	13.8	52
52	Artificial intelligence biosensors: Challenges and prospects. Biosensors and Bioelectronics, 2020, 165, 112412.	10.1	153
53	Graphene-Based Biosensors for Detection of Biomarkers. Micromachines, 2020, 11, 60.	2.9	132
54	Microdroplet-captured tapes for rapid sampling and SERS detection of food contaminants. Biosensors and Bioelectronics, 2020, 152, 112013.	10.1	50

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55	Integrated Microdroplets Array for Intelligent Electrochemical Fabrication. Advanced Functional Materials, 2020, 30, 1910329.	14.9	18
56	Integrating modification and detection in acoustic microchip for in-situ analysis. Biosensors and Bioelectronics, 2020, 158, 112185.	10.1	23
57	An open source and reduce expenditure ROS generation strategy for chemodynamic/photodynamic synergistic therapy. Nature Communications, 2020, 11, 1735.	12.8	343
58	The role of sampling in wearable sweat sensors. Talanta, 2020, 212, 120801.	5.5	97
59	(Invited) Intelligent Wearable Biosensorsâ€"Progress and Problem. ECS Meeting Abstracts, 2020, MA2020-01, 2006-2006.	0.0	0
60	Hollow mesoporous carbon@Pt Janus nanomotors with dual response of H2O2 and near-infrared light for active cargo delivery. Applied Materials Today, 2019, 17, 85-91.	4.3	44
61	Stretchable Conductive Fibers of Ultrahigh Tensile Strain and Stable Conductance Enabled by a Worm-Shaped Graphene Microlayer. Nano Letters, 2019, 19, 6592-6599.	9.1	126
62	Railâ€Assisted Dynamic Assembly of Metallic Nanowires. Advanced Intelligent Systems, 2019, 1, 1900100.	6.1	1
63	Nanodendritic gold/graphene-based biosensor for tri-mode miRNA sensing. Chemical Communications, 2019, 55, 1742-1745.	4.1	63
64	Bioinspired superwettable micropatterns for biosensing. Chemical Society Reviews, 2019, 48, 3153-3165.	38.1	110
65	Coexisting Cooperative Cognitive Microâ€/Nanorobots. Chemistry - an Asian Journal, 2019, 14, 2357-2368.	3.3	8
66	Biodegradable Biomimic Copper/Manganese Silicate Nanospheres for Chemodynamic/Photodynamic Synergistic Therapy with Simultaneous Glutathione Depletion and Hypoxia Relief. ACS Nano, 2019, 13, 4267-4277.	14.6	513
67	Flexible and Superwettable Bands as a Platform toward Sweat Sampling and Sensing. Analytical Chemistry, 2019, 91, 4296-4300.	6.5	136
68	Dynamic Assembly of Microspheres under an Ultrasound Field. Chemistry - an Asian Journal, 2019, 14, 2440-2444.	3.3	10
69	Dendritic Janus Nanomotors with Precisely Modulated Coverages and Their Effects on Propulsion. ACS Applied Materials & Interfaces, 2019, 11, 10426-10433.	8.0	42
70	Superwettable Electrochemical Biosensor toward Detection of Cancer Biomarkers. ACS Sensors, 2018, 3, 72-78.	7.8	84
71	Renewable superwettable biochip for miRNA detection. Sensors and Actuators B: Chemical, 2018, 258, 715-721.	7.8	42
72	Superwettable nanodendritic gold substrates for direct miRNA SERS detection. Nanoscale, 2018, 10, 20990-20994.	5.6	69

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73	Flexible Superwettable Tapes for On-Site Detection of Heavy Metals. Analytical Chemistry, 2018, 90, 14105-14110.	6.5	59
74	Artificial Asymmetric Cilia Array of Dielectric Elastomer for Cargo Transportation. ACS Applied Materials & Interfaces, 2018, 10, 42979-42984.	8.0	27
75	Target-Triggered Catalytic Hairpin Assembly-Induced Coreâ€“Satellite Nanostructures for High-Sensitive â€œOff-to-Onâ€•SERS Detection of Intracellular MicroRNA. Analytical Chemistry, 2018, 90, 10591-10599.	6.5	85
76	Controllable Swarming and Assembly of Micro/Nanomachines. Micromachines, 2018, 9, 10.	2.9	42
77	Microâ€/Nanomachines: Fuelâ€Free Synthetic Microâ€/Nanomachines (Adv. Mater. 9/2017). Advanced Materials, 2017, 29, .	21.0	4
78	Fuelâ€Free Synthetic Microâ€/Nanomachines. Advanced Materials, 2017, 29, 1603250.	21.0	310
79	Superwettable Microchips as a Platform toward Microgravity Biosensing. ACS Nano, 2017, 11, 621-626.	14.6	74
80	Ultrasound propulsion of micro-/nanomotors. Applied Materials Today, 2017, 9, 493-503.	4.3	182
81	Highly Efficient Freestyle Magnetic Nanoswimmer. Nano Letters, 2017, 17, 5092-5098.	9.1	182
82	Freeâ€Blockage Mesoporous Anticancer Nanoparticles Based on ROSâ€Responsive Wetting Behavior of Nanopores. Small, 2017, 13, 1701942.	10.0	41
83	Controlling the micro/nanomotors motion and their application in precision medicine. Scientia Sinica Chimica, 2017, 47, 29-38.	0.4	1
84	Enteric Micromotor Can Selectively Position and Spontaneously Propel in the Gastrointestinal Tract. ACS Nano, 2016, 10, 9536-9542.	14.6	211
85	Superhydrophilic cotton thread with temperature-dependent pattern for sensitive nucleic acid detection. Biosensors and Bioelectronics, 2016, 86, 951-957.	10.1	35
86	Cell micropatterns based on silicone-oil-modified slippery surfaces. Nanoscale, 2016, 8, 18612-18615.	5.6	33
87	Electrochemical hydrogen sulfide biosensors. Analyst, The, 2016, 141, 1185-1195.	3.5	143
88	Vapor-Driven Propulsion of Catalytic Micromotors. Scientific Reports, 2015, 5, 13226.	3.3	40
89	Cellâ€Membraneâ€Coated Synthetic Nanomotors for Effective Biodetoxification. Advanced Functional Materials, 2015, 25, 3881-3887.	14.9	212
90	Reversible Swarming and Separation of Self-Propelled Chemically Powered Nanomotors under Acoustic Fields. Journal of the American Chemical Society, 2015, 137, 2163-2166.	13.7	258

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91	Magnetoâ€“Acoustic Hybrid Nanomotor. Nano Letters, 2015, 15, 4814-4821.	9.1	239
92	Electrochemical Sensors for Nitric Oxide Detection in Biological Applications. Electroanalysis, 2014, 26, 449-468.	2.9	65
93	Cancer Cells: Underwater-Transparent Nanodendritic Coatings for Directly Monitoring Cancer Cells (Adv. Healthcare Mater. 3/2014). Advanced Healthcare Materials, 2014, 3, 460-460.	7.6	1
94	Turning Erythrocytes into Functional Micromotors. ACS Nano, 2014, 8, 12041-12048.	14.6	247
95	Underwaterâ€Transparent Nanodendritic Coatings for Directly Monitoring Cancer Cells. Advanced Healthcare Materials, 2014, 3, 332-337.	7.6	32
96	Ultrasound-Modulated Bubble Propulsion of Chemically Powered Microengines. Journal of the American Chemical Society, 2014, 136, 8552-8555.	13.7	177
97	Programmable Fractal Nanostructured Interfaces for Specific Recognition and Electrochemical Release of Cancer Cells. Advanced Materials, 2013, 25, 3566-3570.	21.0	198