

Joseph Wang

List of Publications by Year in descending order

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358
papers

59,501
citations

³⁶⁹
135
h-index

¹¹³⁶
230
g-index

370
all docs

370
docs citations

370
times ranked

32928
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Glucose Biosensors. <i>Chemical Reviews</i> , 2008, 108, 814-825.	23.0	2,985
2	Carbon-Nanotube Based Electrochemical Biosensors: A Review. <i>Electroanalysis</i> , 2005, 17, 7-14.	1.5	2,181
3	Wearable biosensors for healthcare monitoring. <i>Nature Biotechnology</i> , 2019, 37, 389-406.	9.4	1,895
4	Electrochemical biosensors: Towards point-of-care cancer diagnostics. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1887-1892.	5.3	1,168
5	Micro/nanorobots for biomedicine: Delivery, surgery, sensing, and detoxification. <i>Science Robotics</i> , 2017, 2, .	9.9	1,018
6	Non-invasive wearable electrochemical sensors: a review. <i>Trends in Biotechnology</i> , 2014, 32, 363-371.	4.9	943
7	Wearable sensors: modalities, challenges, and prospects. <i>Lab on A Chip</i> , 2018, 18, 217-248.	3.1	778
8	Electrochemical Tattoo Biosensors for Real-Time Noninvasive Lactate Monitoring in Human Perspiration. <i>Analytical Chemistry</i> , 2013, 85, 6553-6560.	3.2	686
9	Glucose Biosensors: 40 Years of Advances and Challenges. <i>Electroanalysis</i> , 2001, 13, 983-988.	1.5	661
10	A wearable chemical-electrophysiological hybrid biosensing system for real-time health and fitness monitoring. <i>Nature Communications</i> , 2016, 7, 11650.	5.8	639
11	Wearable Chemical Sensors: Present Challenges and Future Prospects. <i>ACS Sensors</i> , 2016, 1, 464-482.	4.0	596
12	Wearable Electrochemical Sensors and Biosensors: A Review. <i>Electroanalysis</i> , 2013, 25, 29-46.	1.5	568
13	Nano/Microscale Motors: Biomedical Opportunities and Challenges. <i>ACS Nano</i> , 2012, 6, 5745-5751.	7.3	565
14	Tattoo-Based Noninvasive Glucose Monitoring: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2015, 87, 394-398.	3.2	562
15	Stripping Analysis at Bismuth Electrodes: A Review. <i>Electroanalysis</i> , 2005, 17, 1341-1346.	1.5	529
16	Highly Efficient Catalytic Microengines: Template Electrosynthesis of Polyaniline/Platinum Microtubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 11862-11864.	6.6	492
17	The Environmental Impact of Micro/Nanomachines: A Review. <i>ACS Nano</i> , 2014, 8, 3170-3180.	7.3	490
18	Wearable salivary uric acid mouthguard biosensor with integrated wireless electronics. <i>Biosensors and Bioelectronics</i> , 2015, 74, 1061-1068.	5.3	471

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19	Noninvasive Alcohol Monitoring Using a Wearable Tattoo-Based Iontophoretic-Biosensing System. ACS Sensors, 2016, 1, 1011-1019.	4.0	460
20	Electrochemical glucose sensors in diabetes management: an updated review (2010–2020). Chemical Society Reviews, 2020, 49, 7671-7709.	18.7	460
21	Artificial Micromotors in the Mouse's Stomach: A Step toward <i>In Vivo</i> Use of Synthetic Motors. ACS Nano, 2015, 9, 117-123.	7.3	435
22	Wearable non-invasive epidermal glucose sensors: A review. Talanta, 2018, 177, 163-170.	2.9	432
23	Micromotor-enabled active drug delivery for in vivo treatment of stomach infection. Nature Communications, 2017, 8, 272.	5.8	424
24	Epidermal tattoo potentiometric sodium sensors with wireless signal transduction for continuous non-invasive sweat monitoring. Biosensors and Bioelectronics, 2014, 54, 603-609.	5.3	403
25	Can Man-Made Nanomachines Compete with Nature Biomotors?. ACS Nano, 2009, 3, 4-9.	7.3	400
26	Cargo-Towing Fuel-Free Magnetic Nanoswimmers for Targeted Drug Delivery. Small, 2012, 8, 460-467.	5.2	393
27	Functionalized Ultrasound-Propelled Magnetically Guided Nanomotors: Toward Practical Biomedical Applications. ACS Nano, 2013, 7, 9232-9240.	7.3	386
28	Micromachine-Enabled Capture and Isolation of Cancer Cells in Complex Media. Angewandte Chemie - International Edition, 2011, 50, 4161-4164.	7.2	381
29	Superhydrophobic Alkanethiol-Coated Microsubmarines for Effective Removal of Oil. ACS Nano, 2012, 6, 4445-4451.	7.3	371
30	Simultaneous Monitoring of Sweat and Interstitial Fluid Using a Single Wearable Biosensor Platform. Advanced Science, 2018, 5, 1800880.	5.6	371
31	Synthetic micro/nanomotors in drug delivery. Nanoscale, 2014, 6, 10486-10494.	2.8	367
32	Magnetically Powered Flexible Metal Nanowire Motors. Journal of the American Chemical Society, 2010, 132, 14403-14405.	6.6	362
33	Advanced Materials for Printed Wearable Electrochemical Devices: A Review. Advanced Electronic Materials, 2017, 3, 1600260.	2.6	358
34	Hydrogen-Bubble-Propelled Zinc-Based Microrockets in Strongly Acidic Media. Journal of the American Chemical Society, 2012, 134, 897-900.	6.6	351
35	Carbon-Nanotube-Induced Acceleration of Catalytic Nanomotors. ACS Nano, 2008, 2, 1069-1075.	7.3	337
36	Seawater-driven magnesium based Janus micromotors for environmental remediation. Nanoscale, 2013, 5, 4696.	2.8	333

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37	Water-Driven Micromotors. ACS Nano, 2012, 6, 8432-8438.	7.3	326
38	Epidermal Microfluidic Electrochemical Detection System: Enhanced Sweat Sampling and Metabolite Detection. ACS Sensors, 2017, 2, 1860-1868.	4.0	325
39	Water-Driven Micromotors for Rapid Photocatalytic Degradation of Biological and Chemical Warfare Agents. ACS Nano, 2014, 8, 11118-11125.	7.3	316
40	Bioinspired Helical Microswimmers Based on Vascular Plants. Nano Letters, 2014, 14, 305-310.	4.5	315
41	Soft, stretchable, high power density electronic skin-based biofuel cells for scavenging energy from human sweat. Energy and Environmental Science, 2017, 10, 1581-1589.	15.6	309
42	An epidermal patch for the simultaneous monitoring of haemodynamic and metabolic biomarkers. Nature Biomedical Engineering, 2021, 5, 737-748.	11.6	309
43	Micro- and Nanomotors as Active Environmental Microcleaners and Sensors. Journal of the American Chemical Society, 2018, 140, 9317-9331.	6.6	307
44	Bacterial Isolation by Lectin-Modified Microengines. Nano Letters, 2012, 12, 396-401.	4.5	300
45	Tattoo-based potentiometric ion-selective sensors for epidermal pH monitoring. Analyst, The, 2013, 138, 123-128.	1.7	300
46	Catalytic Iridium-Based Janus Micromotors Powered by Ultralow Levels of Chemical Fuels. Journal of the American Chemical Society, 2014, 136, 2276-2279.	6.6	300
47	Wearable thermoelectrics for personalized thermoregulation. Science Advances, 2019, 5, eaaw0536.	4.7	299
48	Non-invasive mouthguard biosensor for continuous salivary monitoring of metabolites. Analyst, The, 2014, 139, 1632-1636.	1.7	292
49	Synthetic Nanomotors in Microchannel Networks: Directional Microchip Motion and Controlled Manipulation of Cargo. Journal of the American Chemical Society, 2008, 130, 8164-8165.	6.6	289
50	Acoustic Droplet Vaporization and Propulsion of Perfluorocarbon-Loaded Microbullets for Targeted Tissue Penetration and Deformation. Angewandte Chemie - International Edition, 2012, 51, 7519-7522.	7.2	277
51	Motion-based DNA detection using catalytic nanomotors. Nature Communications, 2010, 1, 36.	5.8	276
52	Highly Stretchable Fully-Printed CNT-Based Electrochemical Sensors and Biofuel Cells: Combining Intrinsic and Design-Induced Stretchability. Nano Letters, 2016, 16, 721-727.	4.5	276
53	A potentiometric tattoo sensor for monitoring ammonium in sweat. Analyst, The, 2013, 138, 7031.	1.7	274
54	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. Biosensors and Bioelectronics, 2017, 91, 885-891.	5.3	274

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55	Epidermal Biofuel Cells: Energy Harvesting from Human Perspiration. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7233-7236.	7.2	271
56	Single Cell Real-Time miRNAs Sensing Based on Nanomotors. <i>ACS Nano</i> , 2015, 9, 6756-6764.	7.3	267
57	Tattoo-Based Wearable Electrochemical Devices: A Review. <i>Electroanalysis</i> , 2015, 27, 562-572.	1.5	265
58	Chemical Sensing Based on Catalytic Nanomotors: Motion-Based Detection of Trace Silver. <i>Journal of the American Chemical Society</i> , 2009, 131, 12082-12083.	6.6	264
59	Wearable Flexible and Stretchable Glove Biosensor for On-Site Detection of Organophosphorus Chemical Threats. <i>ACS Sensors</i> , 2017, 2, 553-561.	4.0	260
60	Self-Propelled Activated Carbon Janus Micromotors for Efficient Water Purification. <i>Small</i> , 2015, 11, 499-506.	5.2	259
61	Reversible Swarming and Separation of Self-Propelled Chemically Powered Nanomotors under Acoustic Fields. <i>Journal of the American Chemical Society</i> , 2015, 137, 2163-2166.	6.6	258
62	Stretchable biofuel cells as wearable textile-based self-powered sensors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18342-18353.	5.2	258
63	Acoustically Propelled Nanomotors for Intracellular siRNA Delivery. <i>ACS Nano</i> , 2016, 10, 4997-5005.	7.3	257
64	3D-Printed Artificial Microfish. <i>Advanced Materials</i> , 2015, 27, 4411-4417.	11.1	251
65	Turning Erythrocytes into Functional Micromotors. <i>ACS Nano</i> , 2014, 8, 12041-12048.	7.3	247
66	Light-Steered Isotropic Semiconductor Micromotors. <i>Advanced Materials</i> , 2017, 29, 1603374.	11.1	246
67	Rapid Delivery of Drug Carriers Propelled and Navigated by Catalytic Nanoshuttles. <i>Small</i> , 2010, 6, 2741-2747.	5.2	245
68	Smart bandage with wireless connectivity for uric acid biosensing as an indicator of wound status. <i>Electrochemistry Communications</i> , 2015, 56, 6-10.	2.3	244
69	Rocket Science at the Nanoscale. <i>ACS Nano</i> , 2016, 10, 5619-5634.	7.3	241
70	Bandage-Based Wearable Potentiometric Sensor for Monitoring Wound pH. <i>Electroanalysis</i> , 2014, 26, 1345-1353.	1.5	240
71	Magneto-Acoustic Hybrid Nanomotor. <i>Nano Letters</i> , 2015, 15, 4814-4821.	4.5	239
72	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. <i>Science Robotics</i> , 2020, 5, .	9.9	236

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73	Wearable Electrochemical Sensors for the Monitoring and Screening of Drugs. ACS Sensors, 2020, 5, 2679-2700.	4.0	227
74	Artificial Enzyme-Powered Microfish for Water-Quality Testing. ACS Nano, 2013, 7, 818-824.	7.3	226
75	Motion Control at the Nanoscale. Small, 2010, 6, 338-345.	5.2	221
76	Functionalized Micromachines for Selective and Rapid Isolation of Nucleic Acid Targets from Complex Samples. Nano Letters, 2011, 11, 2083-2087.	4.5	216
77	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. Accounts of Chemical Research, 2018, 51, 2820-2828.	7.6	214
78	Cell-Membrane-Coated Synthetic Nanomotors for Effective Biodetoxification. Advanced Functional Materials, 2015, 25, 3881-3887.	7.8	212
79	All-Printed, Stretchable Zn-Ag ₂ O Rechargeable Battery via Hyperelastic Binder for Self-Powering Wearable Electronics. Advanced Energy Materials, 2017, 7, 1602096.	10.2	212
80	Enteric Micromotor Can Selectively Position and Spontaneously Propel in the Gastrointestinal Tract. ACS Nano, 2016, 10, 9536-9542.	7.3	211
81	Eyeglasses based wireless electrolyte and metabolite sensor platform. Lab on A Chip, 2017, 17, 1834-1842.	3.1	211
82	Continuous minimally-invasive alcohol monitoring using microneedle sensor arrays. Biosensors and Bioelectronics, 2017, 91, 574-579.	5.3	201
83	Smart Materials for Microrobots. Chemical Reviews, 2022, 122, 5365-5403.	23.0	201
84	3D steerable, acoustically powered microswimmers for single-particle manipulation. Science Advances, 2019, 5, eaax3084.	4.7	199
85	Magnetically Propelled Fish-Like Nanoswimmers. Small, 2016, 12, 6098-6105.	5.2	198
86	Ultrasound-Propelled Nanoporous Gold Wire for Efficient Drug Loading and Release. Small, 2014, 10, 4154-4159.	5.2	196
87	A Textile-Based Stretchable Multi-Ion Potentiometric Sensor. Advanced Healthcare Materials, 2016, 5, 996-1001.	3.9	196
88	Sweat-based wearable energy harvesting-storage hybrid textile devices. Energy and Environmental Science, 2018, 11, 3431-3442.	15.6	196
89	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. ACS Sensors, 2019, 4, 2196-2204.	4.0	196
90	High-speed propulsion of flexible nanowire motors: Theory and experiments. Soft Matter, 2011, 7, 8169.	1.2	195

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91	Wearable temporary tattoo sensor for real-time trace metal monitoring in human sweat. <i>Electrochemistry Communications</i> , 2015, 51, 41-45.	2.3	193
92	Portable electrochemical systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 226-232.	5.8	192
93	Hybrid biomembrane- functionalized nanorobots for concurrent removal of pathogenic bacteria and toxins. <i>Science Robotics</i> , 2018, 3, .	9.9	190
94	Organized Self-Assembly of Janus Micromotors with Hydrophobic Hemispheres. <i>Journal of the American Chemical Society</i> , 2013, 135, 998-1001.	6.6	189
95	Active Intracellular Delivery of a Cas9/sgRNA Complex Using Ultrasound-Propelled Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2657-2661.	7.2	187
96	Micromotors for environmental applications: a review. <i>Environmental Science: Nano</i> , 2018, 5, 1530-1544.	2.2	187
97	An integrated wearable microneedle array for the continuous monitoring of multiple biomarkers in interstitial fluid. <i>Nature Biomedical Engineering</i> , 2022, 6, 1214-1224.	11.6	186
98	Multi-Fuel Driven Janus Micromotors. <i>Small</i> , 2013, 9, 467-471.	5.2	184
99	Micromotor-Based High-Yielding Fast Oxidative Detoxification of Chemical Threats. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13276-13279.	7.2	184
100	Highly Efficient Freestyle Magnetic Nanoswimmer. <i>Nano Letters</i> , 2017, 17, 5092-5098.	4.5	182
101	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. <i>Biosensors and Bioelectronics</i> , 2019, 137, 161-170.	5.3	180
102	Ultrasound-Modulated Bubble Propulsion of Chemically Powered Microengines. <i>Journal of the American Chemical Society</i> , 2014, 136, 8552-8555.	6.6	177
103	Micromotors Spontaneously Neutralize Gastric Acid for pH-Responsive Payload Release. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2156-2161.	7.2	175
104	Amperometric Thick-Film Strip Electrodes for Monitoring Organophosphate Nerve Agents Based on Immobilized Organophosphorus Hydrolase. <i>Analytical Chemistry</i> , 1999, 71, 2246-2249.	3.2	172
105	All-Printed Stretchable Electrochemical Devices. <i>Advanced Materials</i> , 2015, 27, 3060-3065.	11.1	172
106	Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Toward Melanoma Screening. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701264.	3.9	170
107	Superfast Near-Infrared Light-Driven Polymer Multilayer Rockets. <i>Small</i> , 2016, 12, 577-582.	5.2	168
108	Highly Selective Membrane-Free, Mediator-Free Glucose Biosensor. <i>Analytical Chemistry</i> , 1994, 66, 3600-3603.	3.2	167

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109	Micromotors for "Chemistry-on-the-Fly"; Journal of the American Chemical Society, 2018, 140, 3810-3820.	6.6	167
110	Wearable electrochemical biosensors in North America. Biosensors and Bioelectronics, 2021, 172, 112750.	5.3	167
111	A self-sustainable wearable multi-modular E-textile bioenergy microgrid system. Nature Communications, 2021, 12, 1542.	5.8	164
112	Epidermal Enzymatic Biosensors for Sweat Vitamin C: Toward Personalized Nutrition. ACS Sensors, 2020, 5, 1804-1813.	4.0	163
113	Mixed plant tissue carbon paste bioelectrode. Analytical Chemistry, 1988, 60, 1545-1548.	3.2	160
114	Built-in Active Microneedle Patch with Enhanced Autonomous Drug Delivery. Advanced Materials, 2020, 32, e1905740.	11.1	160
115	Nanomotor-Enabled pH-Responsive Intracellular Delivery of Caspase-3: Toward Rapid Cell Apoptosis. ACS Nano, 2017, 11, 5367-5374.	7.3	159
116	Batch injection analysis. Analytical Chemistry, 1991, 63, 1053-1056.	3.2	156
117	Wearable textile biofuel cells for powering electronics. Journal of Materials Chemistry A, 2014, 2, 18184-18189.	5.2	156
118	Microneedle-Based Detection of Ketone Bodies along with Glucose and Lactate: Toward Real-Time Continuous Interstitial Fluid Monitoring of Diabetic Ketosis and Ketoacidosis. Analytical Chemistry, 2020, 92, 2291-2300.	3.2	154
119	Biomimetic Micromotor Enables Active Delivery of Antigens for Oral Vaccination. Nano Letters, 2019, 19, 1914-1921.	4.5	152
120	Electrochemical sensing based on printable temporary transfer tattoos. Chemical Communications, 2012, 48, 6794.	2.2	150
121	Polymer-based tubular microbots: role of composition and preparation. Nanoscale, 2012, 4, 2447.	2.8	150
122	Microneedle-based self-powered glucose sensor. Electrochemistry Communications, 2014, 47, 58-62.	2.3	150
123	Biofuel Cells for Self-Powered Electrochemical Biosensing and Logic Biosensing: A Review. Electroanalysis, 2012, 24, 197-209.	1.5	149
124	RBC micromotors carrying multiple cargos towards potential theranostic applications. Nanoscale, 2015, 7, 13680-13686.	2.8	149
125	Wearable Biofuel Cells: A Review. Electroanalysis, 2016, 28, 1188-1200.	1.5	149
126	Water-Powered Cell-Mimicking Janus Micromotor. Advanced Functional Materials, 2015, 25, 7497-7501.	7.8	147

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127	Electrochemical Detection for Capillary Electrophoresis Microchips: A Review. <i>Electroanalysis</i> , 2005, 17, 1133-1140.	1.5	146
128	V-Type Nerve Agent Detection Using a Carbon Nanotube-Based Amperometric Enzyme Electrode. <i>Analytical Chemistry</i> , 2006, 78, 331-336.	3.2	146
129	Micromotor-based lab-on-chip immunoassays. <i>Nanoscale</i> , 2013, 5, 1325-1331.	2.8	146
130	Motion-driven sensing and biosensing using electrochemically propelled nanomotors. <i>Analyst</i> , The, 2011, 136, 4621.	1.7	144
131	Fantastic Voyage of Nanomotors into the Cell. <i>ACS Nano</i> , 2020, 14, 9423-9439.	7.3	144
132	Propulsion of nanowire diodes. <i>Chemical Communications</i> , 2010, 46, 1623.	2.2	143
133	Nanomotor lithography. <i>Nature Communications</i> , 2014, 5, 5026.	5.8	141
134	Lysozyme-Based Antibacterial Nanomotors. <i>ACS Nano</i> , 2015, 9, 9252-9259.	7.3	141
135	Lab under the Skin: Microneedle Based Wearable Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002255.	3.9	141
136	A Self-Powered "Sense-Act-Treat" System that is Based on a Biofuel Cell and Controlled by Boolean Logic. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2686-2689.	7.2	139
137	Biomimetic Platelet-Camouflaged Nanorobots for Binding and Isolation of Biological Threats. <i>Advanced Materials</i> , 2018, 30, 1704800.	11.1	139
138	Template electrosynthesis of tailored-made helical nanoswimmers. <i>Nanoscale</i> , 2014, 6, 9415-9420.	2.8	138
139	Cargo-towing synthetic nanomachines: Towards active transport in microchip devices. <i>Lab on A Chip</i> , 2012, 12, 1944.	3.1	137
140	Bubble-Propelled Micromotors for Enhanced Transport of Passive Tracers. <i>Langmuir</i> , 2014, 30, 5082-5087.	1.6	136
141	Wearable Chemical Sensors: Emerging Systems for On-Body Analytical Chemistry. <i>Analytical Chemistry</i> , 2020, 92, 378-396.	3.2	136
142	Wearable electrochemical glove-based sensor for rapid and on-site detection of fentanyl. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126422.	4.0	134
143	On-Body Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Self-Powered Biosensing. <i>Advanced Functional Materials</i> , 2020, 30, 1906243.	7.8	134
144	Hybrid Nanomotor: A Catalytically/Magnetically Powered Adaptive Nanowire Swimmer. <i>Small</i> , 2011, 7, 2047-2051.	5.2	132

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145	Magnesium-Based Micromotors: Water-Powered Propulsion, Multifunctionality, and Biomedical and Environmental Applications. <i>Small</i> , 2018, 14, e1704252.	5.2	132
146	Stretchable and Flexible Buckypaper-Based Lactate Biofuel Cell for Wearable Electronics. <i>Advanced Functional Materials</i> , 2019, 29, 1905785.	7.8	132
147	Microneedle array-based carbon paste amperometric sensors and biosensors. <i>Analyst</i> , 2011, 136, 1846.	1.7	130
148	Zwitterionic poly(carboxybetaine) hydrogels for glucose biosensors in complex media. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2454-2459.	5.3	130
149	An epidermal alkaline rechargeable Ag-Zn printable tattoo battery for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15788-15795.	5.2	130
150	Continuous Opioid Monitoring along with Nerve Agents on a Wearable Microneedle Sensor Array. <i>Journal of the American Chemical Society</i> , 2020, 142, 5991-5995.	6.6	130
151	Cell-Like Micromotors. <i>Accounts of Chemical Research</i> , 2018, 51, 1901-1910.	7.6	128
152	Chitosan-based water-propelled micromotors with strong antibacterial activity. <i>Nanoscale</i> , 2017, 9, 2195-2200.	2.8	127
153	Touch-Based Stressless Cortisol Sensing. <i>Advanced Materials</i> , 2021, 33, e2008465.	11.1	127
154	Self-Propelled Carbohydrate-Sensitive Microtransporters with Built-In Boronic Acid Recognition for Isolating Sugars and Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 15217-15220.	6.6	125
155	Targeting and isolation of cancer cells using micro/nanomotors. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 94-101.	6.6	125
156	Self-Propelled Nanomotors Autonomously Seek and Repair Cracks. <i>Nano Letters</i> , 2015, 15, 7077-7085.	4.5	123
157	Dynamic Isolation and Unloading of Target Proteins by Aptamer-Modified Microtransporters. <i>Analytical Chemistry</i> , 2011, 83, 7962-7969.	3.2	122
158	Pacifier Biosensor: Toward Noninvasive Saliva Biomarker Monitoring. <i>Analytical Chemistry</i> , 2019, 91, 13883-13891.	3.2	122
159	Aptamer-Modified Graphene-Based Catalytic Micromotors: Off-On Fluorescent Detection of Ricin. <i>ACS Sensors</i> , 2016, 1, 217-221.	4.0	121
160	Multifunctional Silver-Exchanged Zeolite Micromotors for Catalytic Detoxification of Chemical and Biological Threats. <i>Advanced Functional Materials</i> , 2015, 25, 2147-2155.	7.8	117
161	Self-propelled affinity biosensors: Moving the receptor around the sample. <i>Biosensors and Bioelectronics</i> , 2016, 76, 234-242.	5.3	114
162	Wearable electrochemical sensors for in situ analysis in marine environments. <i>Analyst</i> , 2011, 136, 2912.	1.7	112

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163	Oxygen-Rich Oxidase Enzyme Electrodes for Operation in Oxygen-Free Solutions. <i>Journal of the American Chemical Society</i> , 1998, 120, 1048-1050.	6.6	109
164	Transient Micromotors That Disappear When No Longer Needed. <i>ACS Nano</i> , 2016, 10, 10389-10396.	7.3	109
165	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. <i>Analytical Chemistry</i> , 2020, 92, 4647-4655.	3.2	108
166	Multiplexed microneedle-based biosensor array for characterization of metabolic acidosis. <i>Talanta</i> , 2012, 88, 739-742.	2.9	107
167	Autonomous Collision-Free Navigation of Microvehicles in Complex and Dynamically Changing Environments. <i>ACS Nano</i> , 2017, 11, 9268-9275.	7.3	107
168	Micromotors Go In Vivo: From Test Tubes to Live Animals. <i>Advanced Functional Materials</i> , 2018, 28, 1705640.	7.8	106
169	Enzymatic/Immunoassay Dual-Biomarker Sensing Chip: Towards Decentralized Insulin/Glucose Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6376-6379.	7.2	106
170	Wearable and Mobile Sensors for Personalized Nutrition. <i>ACS Sensors</i> , 2021, 6, 1745-1760.	4.0	106
171	Thermal Modulation of Nanomotor Movement. <i>Small</i> , 2009, 5, 1569-1574.	5.2	105
172	Nano/microvehicles for efficient delivery and (bio)sensing at the cellular level. <i>Chemical Science</i> , 2017, 8, 6750-6763.	3.7	104
173	Micromotor Pills as a Dynamic Oral Delivery Platform. <i>ACS Nano</i> , 2018, 12, 8397-8405.	7.3	104
174	Touch-Based Fingertip Blood-Free Reliable Glucose Monitoring: Personalized Data Processing for Predicting Blood Glucose Concentrations. <i>ACS Sensors</i> , 2021, 6, 1875-1883.	4.0	104
175	Chemically Triggered Swarming of Gold Microparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 503-506.	7.2	102
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