

# Joseph Wang

## 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.

355  
papers

44,559  
citations

118  
h-index

201  
g-index

370  
ext. papers

51,673  
ext. citations

11.3  
avg, IF

8.43  
L-index

#	Paper	IF	Citations
355	Electrochemical glucose biosensors. <i>Chemical Reviews</i> , <b>2008</b> , 108, 814-25	68.1	2569
354	Carbon-Nanotube Based Electrochemical Biosensors: A Review. <i>Electroanalysis</i> , <b>2005</b> , 17, 7-14	3	1937
353	Wearable biosensors for healthcare monitoring. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 389-406	44.5	1043
352	Electrochemical biosensors: towards point-of-care cancer diagnostics. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 21, 1887-92	11.8	1014
351	Non-invasive wearable electrochemical sensors: a review. <i>Trends in Biotechnology</i> , <b>2014</b> , 32, 363-71	15.1	752
350	Micro/Nanorobots for Biomedicine: Delivery, Surgery, Sensing, and Detoxification. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	695
349	Glucose Biosensors: 40 Years of Advances and Challenges. <i>Electroanalysis</i> , <b>2001</b> , 13, 983-988	3	543
348	Electrochemical tattoo biosensors for real-time noninvasive lactate monitoring in human perspiration. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6553-60	7.8	539
347	<b>2006</b> ,		532
346	A wearable chemical-electrophysiological hybrid biosensing system for real-time health and fitness monitoring. <i>Nature Communications</i> , <b>2016</b> , 7, 11650	17.4	510
345	Wearable sensors: modalities, challenges, and prospects. <i>Lab on A Chip</i> , <b>2018</b> , 18, 217-248	7.2	504
344	Nano/Microscale motors: biomedical opportunities and challenges. <i>ACS Nano</i> , <b>2012</b> , 6, 5745-51	16.7	497
343	Wearable Electrochemical Sensors and Biosensors: A Review. <i>Electroanalysis</i> , <b>2013</b> , 25, 29-46	3	471
342	Wearable Chemical Sensors: Present Challenges and Future Prospects. <i>ACS Sensors</i> , <b>2016</b> , 1, 464-482	9.2	469
341	Stripping Analysis at Bismuth Electrodes: A Review. <i>Electroanalysis</i> , <b>2005</b> , 17, 1341-1346	3	459
340	Highly efficient catalytic microengines: template electrosynthesis of polyaniline/platinum microtubes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11862-4	16.4	437
339	Tattoo-based noninvasive glucose monitoring: a proof-of-concept study. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 394-8	7.8	434

338	The environmental impact of micro/nanomachines: a review. <i>ACS Nano</i> , <b>2014</b> , 8, 3170-80	16.7	430
337	Can man-made nanomachines compete with nature biomotors?. <i>ACS Nano</i> , <b>2009</b> , 3, 4-9	16.7	360
336	Noninvasive Alcohol Monitoring Using a Wearable Tattoo-Based Iontophoretic-Biosensing System. <i>ACS Sensors</i> , <b>2016</b> , 1, 1011-1019	9.2	350
335	Wearable salivary uric acid mouthguard biosensor with integrated wireless electronics. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 1061-8	11.8	339
334	Artificial micromotors in the mouse's stomach: a step toward in vivo use of synthetic motors. <i>ACS Nano</i> , <b>2015</b> , 9, 117-23	16.7	339
333	Micromachine-enabled capture and isolation of cancer cells in complex media. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4161-4	16.4	330
332	Superhydrophobic alkanethiol-coated microsubmarines for effective removal of oil. <i>ACS Nano</i> , <b>2012</b> , 6, 4445-51	16.7	328
331	Epidermal tattoo potentiometric sodium sensors with wireless signal transduction for continuous non-invasive sweat monitoring. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 603-9	11.8	326
330	Cargo-towing fuel-free magnetic nanoswimmers for targeted drug delivery. <i>Small</i> , <b>2012</b> , 8, 460-7	11	326
329	Synthetic micro/nanomotors in drug delivery. <i>Nanoscale</i> , <b>2014</b> , 6, 10486-94	7.7	317
328	Wearable non-invasive epidermal glucose sensors: A review. <i>Talanta</i> , <b>2018</b> , 177, 163-170	6.2	311
327	Magnetically powered flexible metal nanowire motors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14403-5	16.4	307
326	Micromotor-enabled active drug delivery for in vivo treatment of stomach infection. <i>Nature Communications</i> , <b>2017</b> , 8, 272	17.4	301
325	Functionalized ultrasound-propelled magnetically guided nanomotors: toward practical biomedical applications. <i>ACS Nano</i> , <b>2013</b> , 7, 9232-40	16.7	299
324	Carbon-nanotube-induced acceleration of catalytic nanomotors. <i>ACS Nano</i> , <b>2008</b> , 2, 1069-75	16.7	298
323	Advanced Materials for Printed Wearable Electrochemical Devices: A Review. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600260	6.4	290
322	Hydrogen-bubble-propelled zinc-based microrockets in strongly acidic media. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 897-900	16.4	283
321	Seawater-driven magnesium based Janus micromotors for environmental remediation. <i>Nanoscale</i> , <b>2013</b> , 5, 4696-700	7.7	283

320	Synthetic nanomotors in microchannel networks: directional microchip motion and controlled manipulation of cargo. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8164-5	16.4	269
319	Water-driven micromotors. <i>ACS Nano</i> , <b>2012</b> , 6, 8432-8	16.7	264
318	Bacterial isolation by lectin-modified microengines. <i>Nano Letters</i> , <b>2012</b> , 12, 396-401	11.5	258
317	Bioinspired helical microswimmers based on vascular plants. <i>Nano Letters</i> , <b>2014</b> , 14, 305-10	11.5	253
316	Tattoo-based potentiometric ion-selective sensors for epidermal pH monitoring. <i>Analyst, The</i> , <b>2013</b> , 138, 123-8	5	248
315	Water-driven micromotors for rapid photocatalytic degradation of biological and chemical warfare agents. <i>ACS Nano</i> , <b>2014</b> , 8, 11118-25	16.7	242
314	Catalytic iridium-based Janus micromotors powered by ultralow levels of chemical fuels. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2276-9	16.4	239
313	Non-invasive mouthguard biosensor for continuous salivary monitoring of metabolites. <i>Analyst, The</i> , <b>2014</b> , 139, 1632-6	5	236
312	Motion-based DNA detection using catalytic nanomotors. <i>Nature Communications</i> , <b>2010</b> , 1, 36	17.4	236
311	Chemical sensing based on catalytic nanomotors: motion-based detection of trace silver. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12082-3	16.4	233
310	Simultaneous Monitoring of Sweat and Interstitial Fluid Using a Single Wearable Biosensor Platform. <i>Advanced Science</i> , <b>2018</b> , 5, 1800880	13.6	230
309	Highly Stretchable Fully-Printed CNT-Based Electrochemical Sensors and Biofuel Cells: Combining Intrinsic and Design-Induced Stretchability. <i>Nano Letters</i> , <b>2016</b> , 16, 721-7	11.5	229
308	Soft, stretchable, high power density electronic skin-based biofuel cells for scavenging energy from human sweat. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1581-1589	35.4	225
307	Epidermal Microfluidic Electrochemical Detection System: Enhanced Sweat Sampling and Metabolite Detection. <i>ACS Sensors</i> , <b>2017</b> , 2, 1860-1868	9.2	223
306	Epidermal biofuel cells: energy harvesting from human perspiration. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7233-6	16.4	223
305	Tattoo-Based Wearable Electrochemical Devices: A Review. <i>Electroanalysis</i> , <b>2015</b> , 27, 562-572	3	222
304	Acoustic droplet vaporization and propulsion of perfluorocarbon-loaded microbullets for targeted tissue penetration and deformation. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7519-22	16.4	220
303	Self-propelled activated carbon Janus micromotors for efficient water purification. <i>Small</i> , <b>2015</b> , 11, 499-506	10.6	219

302	Rapid delivery of drug carriers propelled and navigated by catalytic nanoshuttles. <i>Small</i> , <b>2010</b> , 6, 2741-7	11	216
301	A potentiometric tattoo sensor for monitoring ammonium in sweat. <i>Analyst, The</i> , <b>2013</b> , 138, 7031-8	5	212
300	Micro- and Nanomotors as Active Environmental Microcleaners and Sensors. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9317-9331	16.4	211
299	Single Cell Real-Time miRNAs Sensing Based on Nanomotors. <i>ACS Nano</i> , <b>2015</b> , 9, 6756-64	16.7	208
298	Motion control at the nanoscale. <i>Small</i> , <b>2010</b> , 6, 338-45	11	204
297	Rocket Science at the Nanoscale. <i>ACS Nano</i> , <b>2016</b> , 10, 5619-34	16.7	204
296	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 885-891	11.8	201
295	3D-Printed Artificial Microfish. <i>Advanced Materials</i> , <b>2015</b> , 27, 4411-4417	24	198
294	Stretchable Biofuel Cells as Wearable Textile-based Self-Powered Sensors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18342-18353	13	197
293	Functionalized micromachines for selective and rapid isolation of nucleic acid targets from complex samples. <i>Nano Letters</i> , <b>2011</b> , 11, 2083-7	11.5	195
292	Artificial enzyme-powered microfish for water-quality testing. <i>ACS Nano</i> , <b>2013</b> , 7, 818-24	16.7	193
291	Light-Steered Isotropic Semiconductor Micromotors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603374	24	191
290	Reversible swarming and separation of self-propelled chemically powered nanomotors under acoustic fields. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2163-6	16.4	191
289	Wearable Flexible and Stretchable Glove Biosensor for On-Site Detection of Organophosphorus Chemical Threats. <i>ACS Sensors</i> , <b>2017</b> , 2, 553-561	9.2	190
288	Bandage-Based Wearable Potentiometric Sensor for Monitoring Wound pH. <i>Electroanalysis</i> , <b>2014</b> , 26, 1345-1353	3	188
287	Acoustically Propelled Nanomotors for Intracellular siRNA Delivery. <i>ACS Nano</i> , <b>2016</b> , 10, 4997-5005	16.7	183
286	Smart bandage with wireless connectivity for uric acid biosensing as an indicator of wound status. <i>Electrochemistry Communications</i> , <b>2015</b> , 56, 6-10	5.1	180
285	Turning erythrocytes into functional micromotors. <i>ACS Nano</i> , <b>2014</b> , 8, 12041-8	16.7	180

284	Cell-Membrane-Coated Synthetic Nanomotors for Effective Biotoxification. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3881-3887	15.6	173
283	Electrochemical glucose sensors in diabetes management: an updated review (2010-2020). <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7671-7709	58.5	172
282	Magneto-Acoustic Hybrid Nanomotor. <i>Nano Letters</i> , <b>2015</b> , 15, 4814-21	11.5	170
281	Organized self-assembly of Janus micromotors with hydrophobic hemispheres. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 998-1001	16.4	164
280	High-speed propulsion of flexible nanowire motors: Theory and experiments. <i>Soft Matter</i> , <b>2011</b> , 7, 8169-8178	3.6	164
279	All-Printed, Stretchable Zn-Ag <sub>2</sub> O Rechargeable Battery via Hyperelastic Binder for Self-Powering Wearable Electronics. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602096	21.8	163
278	Multi-fuel driven Janus micromotors. <i>Small</i> , <b>2013</b> , 9, 467-71	11	162
277	Portable electrochemical systems. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2002</b> , 21, 226-232	14.6	161
276	Eyeglasses based wireless electrolyte and metabolite sensor platform. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1834-1842	4.2	160
275	Enteric Micromotor Can Selectively Position and Spontaneously Propel in the Gastrointestinal Tract. <i>ACS Nano</i> , <b>2016</b> , 10, 9536-9542	16.7	158
274	Wearable temporary tattoo sensor for real-time trace metal monitoring in human sweat. <i>Electrochemistry Communications</i> , <b>2015</b> , 51, 41-45	5.1	156
273	A Textile-Based Stretchable Multi-Ion Potentiometric Sensor. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 996-1001	10.1	155
272	Wearable thermoelectrics for personalized thermoregulation. <i>Science Advances</i> , <b>2019</b> , 5, eaaw0536	14.3	154
271	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 2820-2828	24.3	154
270	Micromotor-based high-yielding fast oxidative detoxification of chemical threats. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13276-9	16.4	153
269	Amperometric thick-film strip electrodes for monitoring organophosphate nerve agents based on immobilized organophosphorus hydrolase. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2246-9	7.8	152
268	All-printed stretchable electrochemical devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 3060-5	24	150
267	Highly Selective Membrane-Free, Mediator-Free Glucose Biosensor. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 3600-3603	3.8	147

266	Magnetically Propelled Fish-Like Nanoswimmers. <i>Small</i> , <b>2016</b> , 12, 6098-6105	11	146
265	Ultrasound-propelled nanoporous gold wire for efficient drug loading and release. <i>Small</i> , <b>2014</b> , 10, 4154-49		143
264	Ultrasound-modulated bubble propulsion of chemically powered microengines. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8552-5	16.4	142
263	Biofuel Cells for Self-Powered Electrochemical Biosensing and Logic Biosensing: A Review. <i>Electroanalysis</i> , <b>2012</b> , 24, 197-209	3	138
262	Sweat-based wearable energy harvesting-storage hybrid textile devices. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3431-3442	35.4	137
261	Continuous minimally-invasive alcohol monitoring using microneedle sensor arrays. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 574-579	11.8	136
260	Highly Efficient Freestyle Magnetic Nanoswimmer. <i>Nano Letters</i> , <b>2017</b> , 17, 5092-5098	11.5	136
259	Electrochemical Detection for Capillary Electrophoresis Microchips: A Review. <i>Electroanalysis</i> , <b>2005</b> , 17, 1133-1140	3	136
258	Mixed plant tissue-carbon paste bioelectrode. <i>Analytical Chemistry</i> , <b>1988</b> , 60, 1545-8	7.8	136
257	Motion-driven sensing and biosensing using electrochemically propelled nanomotors. <i>Analyst, The</i> , <b>2011</b> , 136, 4621-30	5	134
256	Micromotors for environmental applications: a review. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1530-1544	7.1	133
255	Active Intracellular Delivery of a Cas9/sgRNA Complex Using Ultrasound-Propelled Nanomotors. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2657-2661	16.4	131
254	Micromotor-based lab-on-chip immunoassays. <i>Nanoscale</i> , <b>2013</b> , 5, 1325-31	7.7	128
253	Electrochemical sensing based on printable temporary transfer tattoos. <i>Chemical Communications</i> , <b>2012</b> , 48, 6794-6	5.8	128
252	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> , <b>2012</b> , 51, 2686-9	16.4	127
251	Micromotors Spontaneously Neutralize Gastric Acid for pH-Responsive Payload Release. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2156-2161	16.4	126
250	Wearable Biofuel Cells: A Review. <i>Electroanalysis</i> , <b>2016</b> , 28, 1188-1200	3	126
249	Batch injection analysis. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 1053-1056	7.8	126

248	Superfast Near-Infrared Light-Driven Polymer Multilayer Rockets. <i>Small</i> , <b>2016</b> , 12, 577-82	11	126
247	Cargo-towing synthetic nanomachines: towards active transport in microchip devices. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1944-50	7.2	125
246	Hybrid biomembrane-functionalized nanorobots for concurrent removal of pathogenic bacteria and toxins. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	125
245	Polymer-based tubular microbots: role of composition and preparation. <i>Nanoscale</i> , <b>2012</b> , 4, 2447-53	7.7	124
244	V-type nerve agent detection using a carbon nanotube-based amperometric enzyme electrode. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 331-6	7.8	124
243	Bubble-propelled micromotors for enhanced transport of passive tracers. <i>Langmuir</i> , <b>2014</b> , 30, 5082-7	4	121
242	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. <i>Science Robotics</i> , <b>2020</b> , 5,	18.6	119
241	Wearable textile biofuel cells for powering electronics. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18184-18189	18.6	119
240	Water-Powered Cell-Mimicking Janus Micromotor. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7497-7501	15.6	119
239	Zwitterionic poly(carboxybetaine) hydrogels for glucose biosensors in complex media. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2454-9	11.8	119
238	An epidermal patch for the simultaneous monitoring of haemodynamic and metabolic biomarkers. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 737-748	19	119
237	Microneedle-based self-powered glucose sensor. <i>Electrochemistry Communications</i> , <b>2014</b> , 47, 58-62	5.1	118
236	Nanomotor-Enabled pH-Responsive Intracellular Delivery of Caspase-3: Toward Rapid Cell Apoptosis. <i>ACS Nano</i> , <b>2017</b> , 11, 5367-5374	16.7	117
235	Lysozyme-Based Antibacterial Nanomotors. <i>ACS Nano</i> , <b>2015</b> , 9, 9252-9	16.7	115
234	Micromotors for "Chemistry-on-the-Fly". <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3810-3820	16.4	115
233	Self-propelled carbohydrate-sensitive microtransporters with built-in boronic acid recognition for isolating sugars and cells. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15217-20	16.4	115
232	An epidermal alkaline rechargeable Ag/Zn printable tattoo battery for wearable electronics. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15788-15795	13	112
231	Nanomotor lithography. <i>Nature Communications</i> , <b>2014</b> , 5, 5026	17.4	112



230	Hybrid nanomotor: a catalytically/magnetically powered adaptive nanowire swimmer. <i>Small</i> , <b>2011</b> , 7, 2047-51	11	109
229	RBC micromotors carrying multiple cargos towards potential theranostic applications. <i>Nanoscale</i> , <b>2015</b> , 7, 13680-6	7.7	107
228	Template electrosynthesis of tailored-made helical nanoswimmers. <i>Nanoscale</i> , <b>2014</b> , 6, 9415-20	7.7	107
227	Dynamic isolation and unloading of target proteins by aptamer-modified microtransporters. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7962-9	7.8	107
226	Microneedle array-based carbon paste amperometric sensors and biosensors. <i>Analyst, The</i> , <b>2011</b> , 136, 1846-51	5	107
225	Multifunctional Silver-Exchanged Zeolite Micromotors for Catalytic Detoxification of Chemical and Biological Threats. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2147-2155	15.6	104
224	Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Toward Melanoma Screening. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1701264	10.1	104
223	Biomimetic Micromotor Enables Active Delivery of Antigens for Oral Vaccination. <i>Nano Letters</i> , <b>2019</b> , 19, 1914-1921	11.5	103
222	Propulsion of nanowire diodes. <i>Chemical Communications</i> , <b>2010</b> , 46, 1623-4	5.8	103
221	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 137, 161-170	11.8	102
220	Self-Propelled Nanomotors Autonomously Seek and Repair Cracks. <i>Nano Letters</i> , <b>2015</b> , 15, 7077-85	11.5	102
219	Wearable Electrochemical Sensors for the Monitoring and Screening of Drugs. <i>ACS Sensors</i> , <b>2020</b> , 5, 2679-2700	9.2	102
218	Biomimetic Platelet-Camouflaged Nanorobots for Binding and Isolation of Biological Threats. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704800	24	99
217	Thermal modulation of nanomotor movement. <i>Small</i> , <b>2009</b> , 5, 1569-74	11	98
216	Magnesium-Based Micromotors: Water-Powered Propulsion, Multifunctionality, and Biomedical and Environmental Applications. <i>Small</i> , <b>2018</b> , 14, e1704252	11	97
215	Targeting and isolation of cancer cells using micro/nanomotors. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 125, 94-101	18.5	97
214	3D steerable, acoustically powered microswimmers for single-particle manipulation. <i>Science Advances</i> , <b>2019</b> , 5, eaax3084	14.3	96
213	Aptamer-Modified Graphene-Based Catalytic Micromotors: Off-On Fluorescent Detection of Ricin. <i>ACS Sensors</i> , <b>2016</b> , 1, 217-221	9.2	96

212	Wearable electrochemical sensors for in situ analysis in marine environments. <i>Analyst, The</i> , <b>2011</b> , 136, 2912-7	5	96
211	Self-propelled affinity biosensors: Moving the receptor around the sample. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 76, 234-42	11.8	95
210	Chitosan-based water-propelled micromotors with strong antibacterial activity. <i>Nanoscale</i> , <b>2017</b> , 9, 2195-2200	7.2	94
209	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. <i>ACS Sensors</i> , <b>2019</b> , 4, 2196-2204	9.2	94
208	Oxygen-Rich Oxidase Enzyme Electrodes for Operation in Oxygen-Free Solutions. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1048-1050	16.4	93
207	Sensitive and stable amperometric measurements at ionic liquid-carbon paste microelectrodes. <i>Analytica Chimica Acta</i> , <b>2008</b> , 606, 45-9	6.6	91
206	Multiplexed microneedle-based biosensor array for characterization of metabolic acidosis. <i>Talanta</i> , <b>2012</b> , 88, 739-42	6.2	90
205	On-chip integration of enzyme and immunoassays: simultaneous measurements of insulin and glucose. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 8444-5	16.4	90
204	Chemically triggered swarming of gold microparticles. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 503-6	16.4	89
203	Remote Biosensor for In-Situ Monitoring of Organophosphate Nerve Agents. <i>Electroanalysis</i> , <b>1999</b> , 11, 866-869	3	89
202	Transient Micromotors That Disappear When No Longer Needed. <i>ACS Nano</i> , <b>2016</b> , 10, 10389-10396	16.7	87
201	Micromotors Go In Vivo: From Test Tubes to Live Animals. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705646	16.4	86
200	Nano/micromotors for security/defense applications. A review. <i>Nanoscale</i> , <b>2015</b> , 7, 19377-89	7.7	85
199	Cell-Like Micromotors. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1901-1910	24.3	85
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197	Epidermal Enzymatic Biosensors for Sweat Vitamin C: Toward Personalized Nutrition. <i>ACS Sensors</i> , <b>2020</b> , 5, 1804-1813	9.2	83
196	Wearable electrochemical glove-based sensor for rapid and on-site detection of fentanyl. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126422-126422	8.5	82
195	Thermal Stabilization of Enzymes Immobilized within Carbon Paste Electrodes. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 3124-7	7.8	82

194	Wearable Chemical Sensors: Emerging Systems for On-Body Analytical Chemistry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 378-396	7.8	82
193	All-printed magnetically self-healing electrochemical devices. <i>Science Advances</i> , <b>2016</b> , 2, e1601465	14.3	81
192	Stretchable and Flexible Buckypaper-Based Lactate Biofuel Cell for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905785	15.6	81
191	Built-In Active Microneedle Patch with Enhanced Autonomous Drug Delivery. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905740	24	80
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183	Swimming Microrobot Optical Nanoscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 6604-6609	11.5	75
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178	Zirconia/Graphene Oxide Hybrid Micromotors for Selective Capture of Nerve Agents. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8162-8169	9.6	72
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173	Wearable potentiometric tattoo biosensor for on-body detection of G-type nerve agents simulants. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 966-972	8.5	69
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170	Wearable Ring-Based Sensing Platform for Detecting Chemical Threats. <i>ACS Sensors</i> , <b>2017</b> , 2, 1531-1538	9.2	67
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137	A Nanomotor-Based Active Delivery System for Intracellular Oxygen Transport. <i>ACS Nano</i> , <b>2019</b> , 13, 11996-12006	16.7	46
136	Hybrid Nanovehicles: One Machine, Two Engines. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806290	15.6	46
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75	Acoustic Nanomotors for Detection of Human Papillomavirus-Associated Head and Neck Cancer. <i>Otolaryngology - Head and Neck Surgery</i> , <b>2019</b> , 161, 814-822	5.5	22
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57	Ultrafast Growth and Locomotion of Dandelion-Like Microswarms with Tubular Micromotors. <i>Small</i> , <b>2020</b> , 16, e2003678	11	17
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