

Joseph Wang

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.

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	Microneedle-mediated intratumoral delivery of anti-CTLA-4 promotes cDC1-dependent eradication of oral squamous cell carcinoma with limited irAEs.. <i>Molecular Cancer Therapeutics</i> , 2022 ,	6.1	2
354	Development of a Novel Insulin Sensor for Clinical Decision-Making.. <i>Journal of Diabetes Science and Technology</i> , 2022 , 19322968211071132	4.1	0
353	Designing wearable microgrids: towards autonomous sustainable on-body energy management. <i>Energy and Environmental Science</i> , 2022 , 15, 82-101	35.4	11
352	Clinical Evaluation of a Novel Insulin Immunosensor.. <i>Journal of Diabetes Science and Technology</i> , 2022 , 19322968221074406	4.1	0
351	Wearable soft electrochemical microfluidic device integrated with iontophoresis for sweat biosensing.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	8
350	Wearable electrochemical microneedle sensing platform for real-time continuous interstitial fluid monitoring of apomorphine: Toward Parkinson management. <i>Sensors and Actuators B: Chemical</i> , 2022 , 354, 131234	8.5	4
349	Electronic textiles for energy, sensing, and communication.. <i>IScience</i> , 2022 , 25, 104174	6.1	2
348	Green MIP-202(Zr) Catalyst: Degradation and Thermally Robust Biomimetic Sensing of Nerve Agents. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18261-18271	16.4	6
347	Electrical Propulsion and Cargo Transport of Microbowl Shaped Janus Particles. <i>Small</i> , 2021 , 18, e2101809		2
346	Screen-Printed Technologies Combined with Flow Analysis Techniques: Moving from Benchtop to Everywhere. <i>Analytical Chemistry</i> , 2021 ,	7.8	1
345	Physical Disruption of Solid Tumors by Immunostimulatory Microrobots Enhances Antitumor Immunity. <i>Advanced Materials</i> , 2021 , 33, e2103505	24	9
344	Biomembrane-Functionalized Micromotors: Biocompatible Active Devices for Diverse Biomedical Applications. <i>Advanced Materials</i> , 2021 , e2107177	24	9
343	Monolithic processing of a layered flexible robotic actuator film for kinetic electronics. <i>Scientific Reports</i> , 2021 , 11, 20015	4.9	0
342	Lab under the Skin: Microneedle Based Wearable Devices. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002255	12.5	45
341	A self-sustainable wearable multi-modular E-textile bioenergy microgrid system. <i>Nature Communications</i> , 2021 , 12, 1542	17.4	56
340	Touch-Based Stressless Cortisol Sensing. <i>Advanced Materials</i> , 2021 , 33, e2008465	24	40
339	Touch-Based Fingertip Blood-Free Reliable Glucose Monitoring: Personalized Data Processing for Predicting Blood Glucose Concentrations. <i>ACS Sensors</i> , 2021 , 6, 1875-1883	9.2	38

338	A Microstirring Pill Enhances Bioavailability of Orally Administered Drugs. <i>Advanced Science</i> , 2021 , 8, 2100389	13.6	8
337	Wearable and Mobile Sensors for Personalized Nutrition. <i>ACS Sensors</i> , 2021 , 6, 1745-1760	9.2	28
336	Textile-based wearable solid-contact flexible fluoride sensor: Toward biodetection of G-type nerve agents. <i>Biosensors and Bioelectronics</i> , 2021 , 182, 113172	11.8	11
335	ACE2 Receptor-Modified Algae-Based Microrobot for Removal of SARS-CoV-2 in Wastewater. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12194-12201	16.4	15
334	Non-Invasive Sweat-Based Tracking of L-Dopa Pharmacokinetic Profiles Following an Oral Tablet Administration. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19074-19078	16.4	12
333	A passive perspiration biofuel cell: High energy return on investment. <i>Joule</i> , 2021 , 5, 1888-1904	27.8	30
332	A review of biomarkers in the context of type 1 diabetes: Biological sensing for enhanced glucose control. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10201	14.8	12
331	Wearable electrochemical biosensors in North America. <i>Biosensors and Bioelectronics</i> , 2021 , 172, 112750	11.8	76
330	High Performance Printed AgO-Zn Rechargeable Battery for Flexible Electronics. <i>Joule</i> , 2021 , 5, 228-248	27.8	33
329	Combinatorial microneedle patch with tunable release kinetics and dual fast-deep/sustained release capabilities. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2189-2199	7.3	3
328	Smart Materials for Microrobots. <i>Chemical Reviews</i> , 2021 ,	68.1	49
327	An epidermal patch for the simultaneous monitoring of haemodynamic and metabolic biomarkers. <i>Nature Biomedical Engineering</i> , 2021 , 5, 737-748	19	119
326	Swimmers Heal on the Move Following Catastrophic Damage. <i>Nano Letters</i> , 2021 , 21, 2240-2247	11.5	0
325	Wearable Biosupercapacitor: Harvesting and Storing Energy from Sweat. <i>Advanced Functional Materials</i> , 2021 , 31, 2102915	15.6	16
324	Non-Invasive Sweat-Based Tracking of L-Dopa Pharmacokinetic Profiles Following an Oral Tablet Administration. <i>Angewandte Chemie</i> , 2021 , 133, 19222-19226	3.6	4
323	Energy Autonomous Sweat-Based Wearable Systems. <i>Advanced Materials</i> , 2021 , 33, e2100899	24	25
322	Extended Noninvasive Glucose Monitoring in the Interstitial Fluid Using an Epidermal Biosensing Patch. <i>Analytical Chemistry</i> , 2021 , 93, 12767-12775	7.8	9
321	Trivalent Subunit Vaccine Candidates for COVID-19 and Their Delivery Devices. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14748-14765	16.4	15

320	Detection and quantification of Mycobacterium tuberculosis antigen CFP10 in serum and urine for the rapid diagnosis of active tuberculosis disease. <i>Scientific Reports</i> , 2021 , 11, 19193	4.9	0
319	Electrochemical sensors: From the bench to the skin. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 1301785	18.5	20
318	Decentralized vitamin C & D dual biosensor chip: Toward personalized immune system support. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113590	11.8	2
317	Will future microbots be task-specific customized machines or multi-purpose "all in one" vehicles?. <i>Nature Communications</i> , 2021 , 12, 7125	17.4	2
316	Epidermal Enzymatic Biosensors for Sweat Vitamin C: Toward Personalized Nutrition. <i>ACS Sensors</i> , 2020 , 5, 1804-1813	9.2	83
315	Multicompartment Tubular Micromotors Toward Enhanced Localized Active Delivery. <i>Advanced Materials</i> , 2020 , 32, e2000091	24	50
314	Liquid Metal Based Island-Bridge Architectures for All Printed Stretchable Electrochemical Devices. <i>Advanced Functional Materials</i> , 2020 , 30, 2002041	15.6	45
313	An integrated microcatheter-based dual-analyte sensor system for simultaneous, real-time measurement of propofol and fentanyl. <i>Talanta</i> , 2020 , 218, 121205	6.2	13
312	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. <i>Science Robotics</i> , 2020 , 5,	18.6	119
311	Uric acid electrochemical sensing in biofluids based on Ni/Zn hydroxide nanocatalyst. <i>Mikrochimica Acta</i> , 2020 , 187, 379	5.8	14
310	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	16.4	59
309	Powered by sweat: Throw out the batteries: Biofuels will change the future of wearable devices. <i>IEEE Spectrum</i> , 2020 , 57, 28-33	1.7	6
308	Effective removal of inorganic and organic heavy metal pollutants with poly(amino acid)-based micromotors. <i>Nanoscale</i> , 2020 , 12, 5227-5232	7.7	26
307	Microscale Biosensor Array Based on Flexible Polymeric Platform toward Lab-on-a-Needle: Real-Time Multiparameter Biomedical Assays on Curved Needle Surfaces. <i>ACS Sensors</i> , 2020 , 5, 1363-1373	13.2	19
306	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	7.8	66
305	Simultaneous detection of salivary Δ^9 -tetrahydrocannabinol and alcohol using a Wearable Electrochemical Ring Sensor. <i>Talanta</i> , 2020 , 211, 120757	6.2	51
304	Enzymatic biofuel cells based on protective hydrophobic carbon paste electrodes: towards epidermal bioenergy harvesting in the acidic sweat environment. <i>Chemical Communications</i> , 2020 , 56, 2004-2007	5.8	13
303	Small-Scale Propellers Deliver Miniature Versions of Themselves. <i>Small</i> , 2020 , 16, e2000453	11	3

302	Active Delivery of VLPs Promotes Anti-Tumor Activity in a Mouse Ovarian Tumor Model. <i>Small</i> , 2020 , 16, e1907150	11	24
301	63-OR: Towards Point-of-Care Devices: First Evaluation of an Insulin Immunosensor for Type 1 Diabetes. <i>Diabetes</i> , 2020 , 69, 63-OR	0.9	1
300	Multigear Bubble Propulsion of Transient Micromotors. <i>Research</i> , 2020 , 2020, 7823615	7.8	20
299	OPAA/fluoride biosensor chip towards field detection of G-type nerve agents. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128344	8.5	11
298	Biopsy needle integrated with multi-modal physical/chemical sensor array. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111822	11.8	8
297	Built-In Active Microneedle Patch with Enhanced Autonomous Drug Delivery. <i>Advanced Materials</i> , 2020 , 32, e1905740	24	80
296	Microneedle-Based Detection of Ketone Bodies along with Glucose and Lactate: Toward Real-Time Continuous Interstitial Fluid Monitoring of Diabetic Ketosis and Ketoacidosis. <i>Analytical Chemistry</i> , 2020 , 92, 2291-2300	7.8	67
295	Onion-like Multifunctional Microtrap Vehicles for Attraction-Trapping-Destruction of Biological Threats. <i>Angewandte Chemie</i> , 2020 , 132, 3508-3513	3.6	7
294	Onion-like Multifunctional Microtrap Vehicles for Attraction-Trapping-Destruction of Biological Threats. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3480-3485	16.4	17
293	Intrinsically Stretchable Fuel Cell Based on Enokitake-Like Standing Gold Nanowires. <i>Advanced Energy Materials</i> , 2020 , 10, 1903512	21.8	13
292	Electrochemical glucose sensors in diabetes management: an updated review (2010-2020). <i>Chemical Society Reviews</i> , 2020 , 49, 7671-7709	58.5	172
291	From Passive Inorganic Oxides to Active Matters of Micro/Nanomotors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003195	15.6	13
290	Active Microneedle Administration of Plant Virus Nanoparticles for Cancer Vaccination Improves Immunotherapeutic Efficacy. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8037-8051	5.6	15
289	Fantastic Voyage of Nanomotors into the Cell. <i>ACS Nano</i> , 2020 , 14, 9423-9439	16.7	71
288	Zinc Microrocket Pills: Fabrication and Characterization toward Active Oral Delivery. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000900	10.1	17
287	Simultaneous cortisol/insulin microchip detection using dual enzyme tagging. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112512	11.8	16
286	Structural Innovations in Printed, Flexible, and Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000694	6.8	26
285	Density Asymmetry Driven Propulsion of Ultrasound-Powered Janus Micromotors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004043	15.6	26

284	Wearable Electrochemical Sensors for the Monitoring and Screening of Drugs. <i>ACS Sensors</i> , 2020 , 5, 2679-2700	9.2	102
283	Ultrafast Growth and Locomotion of Dandelion-Like Microswarms with Tubular Micromotors. <i>Small</i> , 2020 , 16, e2003678	11	17
282	Wearable Chemical Sensors: Emerging Systems for On-Body Analytical Chemistry. <i>Analytical Chemistry</i> , 2020 , 92, 378-396	7.8	82
281	On-Body Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Self-Powered Biosensing. <i>Advanced Functional Materials</i> , 2020 , 30, 1906243	15.6	74
280	3D steerable, acoustically powered microswimmers for single-particle manipulation. <i>Science Advances</i> , 2019 , 5, eaax3084	14.3	96
279	A Nanomotor-Based Active Delivery System for Intracellular Oxygen Transport. <i>ACS Nano</i> , 2019 , 13, 11996-12006	11.6	106
278	Acoustic Nanomotors for Detection of Human Papillomavirus-Associated Head and Neck Cancer. <i>Otolaryngology - Head and Neck Surgery</i> , 2019 , 161, 814-822	5.5	22
277	Pacifier Biosensor: Toward Noninvasive Saliva Biomarker Monitoring. <i>Analytical Chemistry</i> , 2019 , 91, 13883-13894	8.3	94
276	Micromotors for Active Delivery of Minerals toward the Treatment of Iron Deficiency Anemia. <i>Nano Letters</i> , 2019 , 19, 7816-7826	11.5	30
275	Point-of-use robotic sensors for simultaneous pressure detection and chemical analysis. <i>Materials Horizons</i> , 2019 , 6, 604-611	14.4	30
274	Self-Propelled and Targeted Drug Delivery of Poly(aspartic acid)/Iron-Zinc Microrocket in the Stomach. <i>ACS Nano</i> , 2019 , 13, 1324-1332	16.7	39
273	Eyeglasses-based tear biosensing system: Non-invasive detection of alcohol, vitamins and glucose. <i>Biosensors and Bioelectronics</i> , 2019 , 137, 161-170	11.8	102
272	A Macrophage-Magnesium Hybrid Biomotor: Fabrication and Characterization. <i>Advanced Materials</i> , 2019 , 31, e1901828	24	56
271	Laser-Induced Graphene Composites for Printed, Stretchable, and Wearable Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900162	6.8	34
270	Wearable thermoelectrics for personalized thermoregulation. <i>Science Advances</i> , 2019 , 5, eaaw0536	14.3	154
269	Enzymatic/Immunoassay Dual-Biomarker Sensing Chip: Towards Decentralized Insulin/Glucose Detection. <i>Angewandte Chemie</i> , 2019 , 131, 6442-6445	3.6	2
268	Rotibot: Use of Rotifers as Self-Propelling Biohybrid Microcleaners. <i>Advanced Functional Materials</i> , 2019 , 29, 1900658	15.6	25
267	Enzymatic/Immunoassay Dual-Biomarker Sensing Chip: Towards Decentralized Insulin/Glucose Detection. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6376-6379	16.4	70

266	Fish-Scale-Like Intercalated Metal Oxide-Based Micromotors as Efficient Water Remediation Agents. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16164-16173	9.5	35
265	Wearable electrochemical glove-based sensor for rapid and on-site detection of fentanyl. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126422-126422	8.5	82
264	Structure-Dependent Optical Modulation of Propulsion and Collective Behavior of Acoustic/Light-Driven Hybrid Microbowls. <i>Advanced Functional Materials</i> , 2019 , 29, 1809003	15.6	45
263	Biomimetic Micromotor Enables Active Delivery of Antigens for Oral Vaccination. <i>Nano Letters</i> , 2019 , 19, 1914-1921	11.5	103
262	Wearable biosensors for healthcare monitoring. <i>Nature Biotechnology</i> , 2019 , 37, 389-406	44.5	1043
261	Skin-worn Soft Microfluidic Potentiometric Detection System. <i>Electroanalysis</i> , 2019 , 31, 239-245	3	51
260	A Human Microrobot Interface Based on Acoustic Manipulation. <i>ACS Nano</i> , 2019 , 13, 11443-11452	16.7	30
259	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. <i>ACS Sensors</i> , 2019 , 4, 2196-2204	9.2	94
258	Motile Micropump Based on Synthetic Micromotors for Dynamic Micropatterning. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28507-28514	9.5	20
257	Stretchable and Flexible Buckypaper-Based Lactate Biofuel Cell for Wearable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1905785	15.6	81
256	Rapid Detection of AIB1 in Breast Cancer Cells Based on Aptamer-Functionalized Nanomotors. <i>ChemPhysChem</i> , 2019 , 20, 3177-3180	3.2	26
255	Enokitake Mushroom-like Standing Gold Nanowires toward Wearable Noninvasive Bimodal Glucose and Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9724-9729	9.5	63
254	Ionic Liquid-Modified Disposable Electrochemical Sensor Strip for Analysis of Fentanyl. <i>Analytical Chemistry</i> , 2019 , 91, 3747-3753	7.8	42
253	Hybrid Nanovehicles: One Machine, Two Engines. <i>Advanced Functional Materials</i> , 2019 , 29, 1806290	15.6	46
252	Cavitas electrochemical sensor toward detection of N-epsilon (carboxymethyl)lysine in oral cavity. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 399-407	8.5	28
251	Parallel Label-Free Isolation of Cancer Cells Using Arrays of Acoustic Microstreaming Traps. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800374	6.8	22
250	Direct electrochemical biosensing in gastrointestinal fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4597-4604	4.4	22
249	Virus-Based Nanomotors for Cargo Delivery. <i>ChemNanoMat</i> , 2019 , 5, 194-200	3.5	16

248	Micromotors for "Chemistry-on-the-Fly". <i>Journal of the American Chemical Society</i> , 2018 , 140, 3810-3820	16.4	115
247	Innentitelbild: Active Intracellular Delivery of a Cas9/sgRNA Complex Using Ultrasound-Propelled Nanomotors (Angew. Chem. 10/2018). <i>Angewandte Chemie</i> , 2018 , 130, 2532-2532	3.6	1
246	Magnesium-Based Micromotors: Water-Powered Propulsion, Multifunctionality, and Biomedical and Environmental Applications. <i>Small</i> , 2018 , 14, e1704252	11	97
245	From All-Printed 2D Patterns to Free-Standing 3D Structures: Controlled Buckling and Selective Bonding. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800013	6.8	18
244	Multistimuli-Responsive Camouflage Swimmers. <i>Chemistry of Materials</i> , 2018 , 30, 1593-1601	9.6	29
243	Selective Voltammetric Measurements of Epinephrine and Norepinephrine in Presence of Common Interferences Using Cyclic Square-wave voltammetry at Unmodified Carbon Electrodes. <i>Electroanalysis</i> , 2018 , 30, 1028-1032	3	8
242	Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Toward Melanoma Screening. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701264	10.1	104
241	Active Intracellular Delivery of a Cas9/sgRNA Complex Using Ultrasound-Propelled Nanomotors. <i>Angewandte Chemie</i> , 2018 , 130, 2687-2691	3.6	17
240	Micromotors Go In Vivo: From Test Tubes to Live Animals. <i>Advanced Functional Materials</i> , 2018 , 28, 1705640	6.4	86
239	Active Intracellular Delivery of a Cas9/sgRNA Complex Using Ultrasound-Propelled Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2657-2661	16.4	131
238	A 0.3V biofuel-cell-powered glucose/lactate biosensing system employing a 180nW 64dB SNR passive ADC and a 920MHz wireless transmitter 2018 ,		5
237	Detection of vapor-phase organophosphate threats using wearable conformable integrated epidermal and textile wireless biosensor systems. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 227-234	11.8	65
236	Re-usable electrochemical glucose sensors integrated into a smartphone platform. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 181-187	11.8	70
235	Wearable non-invasive epidermal glucose sensors: A review. <i>Talanta</i> , 2018 , 177, 163-170	6.2	311
234	Targeting and isolation of cancer cells using micro/nanomotors. <i>Advanced Drug Delivery Reviews</i> , 2018 , 125, 94-101	18.5	97
233	Micromotor Pills as a Dynamic Oral Delivery Platform. <i>ACS Nano</i> , 2018 , 12, 8397-8405	16.7	65
232	Simultaneous Monitoring of Sweat and Interstitial Fluid Using a Single Wearable Biosensor Platform. <i>Advanced Science</i> , 2018 , 5, 1800880	13.6	230
231	Cell-Like Micromotors. <i>Accounts of Chemical Research</i> , 2018 , 51, 1901-1910	24.3	85

230	Micro- and Nanomotors as Active Environmental Microcleaners and Sensors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9317-9331	16.4	211
229	Fully edible biofuel cells. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3571-3578	7.3	17
228	Chemical/Light-Powered Hybrid Micromotors with "On-the-Fly" Optical Brakes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8110-8114	16.4	45
227	Chemical/Light-Powered Hybrid Micromotors with On-the-Fly Optical Brakes. <i>Angewandte Chemie</i> , 2018 , 130, 8242-8246	3.6	26
226	Biomimetic Platelet-Camouflaged Nanorobots for Binding and Isolation of Biological Threats. <i>Advanced Materials</i> , 2018 , 30, 1704800	24	99
225	Wearable sensors: modalities, challenges, and prospects. <i>Lab on A Chip</i> , 2018 , 18, 217-248	7.2	504
224	Bioinspired Chemical Communication between Synthetic Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 241-245	16.4	39
223	Sweat-based wearable energy harvesting-storage hybrid textile devices. <i>Energy and Environmental Science</i> , 2018 , 11, 3431-3442	35.4	137
222	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. <i>Accounts of Chemical Research</i> , 2018 , 51, 2820-2828	24.3	154
221	Sensing at Your Fingertips: Glove-based Wearable Chemical Sensors. <i>Electroanalysis</i> , 2018 , 31, 428	3	15
220	Chemical Sensing at the Robot Fingertips: Toward Automated Taste Discrimination in Food Samples. <i>ACS Sensors</i> , 2018 , 3, 2375-2384	9.2	40
219	Electrochemical Deposition Tailors the Catalytic Performance of MnO ₂ -Based Micromotors. <i>Small</i> , 2018 , 14, e1802771	11	19
218	A 0.3-V CMOS Biofuel-Cell-Powered Wireless Glucose/Lactate Biosensing System. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 3126-3139	5.5	36
217	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. <i>Analytical Chemistry</i> , 2018 , 90, 13498-13505	13.5	43
216	Delayed Sensor Activation Based on Transient Coatings: Biofouling Protection in Complex Biofluids. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14050-14053	16.4	43
215	Noninvasive Transdermal Delivery System of Lidocaine Using an Acoustic Droplet-Vaporization Based Wearable Patch. <i>Small</i> , 2018 , 14, e1803266	11	34
214	Enzymatic glucose/oxygen biofuel cells: Use of oxygen-rich cathodes for operation under severe oxygen-deficit conditions. <i>Biosensors and Bioelectronics</i> , 2018 , 122, 284-289	11.8	24
213	Wearable Electrochemical Alcohol Biosensors. <i>Current Opinion in Electrochemistry</i> , 2018 , 10, 126-135	7.2	62

212	Micromotors for environmental applications: a review. <i>Environmental Science: Nano</i> , 2018 , 5, 1530-1544	7.1	133
211	Finger-Based Printed Sensors Integrated on a Glove for On-Site Screening Of <i>Pseudomonas aeruginosa</i> Virulence Factors. <i>Analytical Chemistry</i> , 2018 , 90, 7761-7768	7.8	32
210	Hybrid biomembrane-functionalized nanorobots for concurrent removal of pathogenic bacteria and toxins. <i>Science Robotics</i> , 2018 , 3,	18.6	125
209	Wearable potentiometric tattoo biosensor for on-body detection of G-type nerve agents simulants. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 966-972	8.5	69
208	Highly Stable Battery Pack via Insulated, Reinforced, Buckling-Enabled Interconnect Array. <i>Small</i> , 2018 , 14, e1800938	11	25
207	Chemotactic Guidance of Synthetic Organic/Inorganic Payloads Functionalized Sperm Micromotors. <i>Advanced Biology</i> , 2018 , 2, 1700160	3.5	76
206	Micromotors Spontaneously Neutralize Gastric Acid for pH-Responsive Payload Release. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2156-2161	16.4	126
205	Chitosan-based water-propelled micromotors with strong antibacterial activity. <i>Nanoscale</i> , 2017 , 9, 2195-2200	7.2	94
204	Continuous minimally-invasive alcohol monitoring using microneedle sensor arrays. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 574-579	11.8	136
203	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 885-891	11.8	201
202	A microneedle biosensor for minimally-invasive transdermal detection of nerve agents. <i>Analyst, The</i> , 2017 , 142, 918-924	5	66
201	Micro/Nanorobots for Biomedicine: Delivery, Surgery, Sensing, and Detoxification. <i>Science Robotics</i> , 2017 , 2,	18.6	695
200	Wearable Flexible and Stretchable Glove Biosensor for On-Site Detection of Organophosphorus Chemical Threats. <i>ACS Sensors</i> , 2017 , 2, 553-561	9.2	190
199	Merging of Thin- and Thick-Film Fabrication Technologies: Toward Soft Stretchable Island-Bridge Devices. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600284	6.8	57
198	Utilizing Iron's Attractive Chemical and Magnetic Properties in Microrocket Design, Extended Motion, and Unique Performance. <i>Small</i> , 2017 , 13, 1700035	11	19
197	Nanoconfined Atomic Layer Deposition of TiO ₂ /Pt Nanotubes: Toward Ultrasmall Highly Efficient Catalytic Nanorockets. <i>Advanced Functional Materials</i> , 2017 , 27, 1700598	15.6	46
196	Nanomotor-Enabled pH-Responsive Intracellular Delivery of Caspase-3: Toward Rapid Cell Apoptosis. <i>ACS Nano</i> , 2017 , 11, 5367-5374	16.7	117
195	Eyeglasses based wireless electrolyte and metabolite sensor platform. <i>Lab on A Chip</i> , 2017 , 17, 1834-1842	7.2	160

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11	Glucose Biosensors: 40 Years of Advances and Challenges. <i>Electroanalysis</i> , 2001 , 13, 983-988	3	543
10	Needle-type dual microsensor for the simultaneous monitoring of glucose and insulin. <i>Analytical Chemistry</i> , 2001 , 73, 844-7	7.8	73
9	Microseparation chips for performing multienzymatic dehydrogenase/oxidase assays: simultaneous electrochemical measurement of ethanol and glucose. <i>Analytical Chemistry</i> , 2001 , 73, 1296-300	7.8	68
8	Remote Biosensor for In-Situ Monitoring of Organophosphate Nerve Agents. <i>Electroanalysis</i> , 1999 , 11, 866-869	3	89
7	Amperometric thick-film strip electrodes for monitoring organophosphate nerve agents based on immobilized organophosphorus hydrolase. <i>Analytical Chemistry</i> , 1999 , 71, 2246-9	7.8	152
6	Oxygen-Rich Oxidase Enzyme Electrodes for Operation in Oxygen-Free Solutions. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1048-1050	16.4	93
5	Thermal Stabilization of Enzymes Immobilized within Carbon Paste Electrodes. <i>Analytical Chemistry</i> , 1997 , 69, 3124-7	7.8	82
4	Enzyme Microelectrode Array Strips for Glucose and Lactate. <i>Analytical Chemistry</i> , 1994 , 66, 1007-1011	7.8	64
3	Highly Selective Membrane-Free, Mediator-Free Glucose Biosensor. <i>Analytical Chemistry</i> , 1994 , 66, 3600-3603	7.8	147
2	Batch injection analysis. <i>Analytical Chemistry</i> , 1991 , 63, 1053-1056	7.8	126
1	Mixed plant tissue-carbon paste bioelectrode. <i>Analytical Chemistry</i> , 1988 , 60, 1545-8	7.8	136