List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6464787/publications.pdf Version: 2024-02-01



WELCAO

#	Article	IF	CITATIONS
1	Microrobots in the Gastrointestinal Tract. , 2022, , 349-367.		2
2	3D Porous Graphene Films with Largeâ€Area Inâ€Plane Exterior Skins. Advanced Materials Interfaces, 2022, 9, .	1.9	3
3	Wearable chemosensors. , 2022, , 219-234.		Ο
4	Flexible Electronics and Devices as Human–Machine Interfaces for Medical Robotics. Advanced Materials, 2022, 34, e2107902.	11.1	211
5	Wearable Bioelectronics for Chronic Wound Management. Advanced Functional Materials, 2022, 32, .	7.8	64
6	Wearable Bioelectronics for Chronic Wound Management (Adv. Funct. Mater. 17/2022). Advanced Functional Materials, 2022, 32, .	7.8	1
7	Magnetically Actuated Reactive Oxygen Species Scavenging Nanoâ€Robots for Targeted Treatment. Advanced Intelligent Systems, 2022, 4, .	3.3	11
8	Prussian Blue Nanozyme Promotes the Survival Rate of Skin Flaps by Maintaining a Normal Microenvironment. ACS Nano, 2022, 16, 9559-9571.	7.3	28
9	All-printed soft human-machine interface for robotic physicochemical sensing. Science Robotics, 2022, 7, .	9.9	105
10	An intelligent data-driven model for disease diagnosis based on machine learning theory. Journal of Combinatorial Optimization, 2021, 42, 884-895.	0.8	5
11	Wearable electrochemical biosensors in North America. Biosensors and Bioelectronics, 2021, 172, 112750.	5.3	167
12	Effective suppression of mode distortion induced by stimulated Raman scattering in high-power fiber amplifiers. High Power Laser Science and Engineering, 2021, 9, .	2.0	11
13	Prussian blue nanozyme-mediated nanoscavenger ameliorates acute pancreatitis via inhibiting TLRs/NF-κB signaling pathway. Theranostics, 2021, 11, 3213-3228.	4.6	58
14	Self-Powered Wearable Biosensors. Accounts of Materials Research, 2021, 2, 184-197.	5.9	118
15	A Biofuel-Cell-Based Energy Harvester With 86% Peak Efficiency and 0.25-V Minimum Input Voltage Using Source-Adaptive MPPT. IEEE Journal of Solid-State Circuits, 2021, 56, 715-728.	3.5	20
16	Ethical Considerations of Wearable Technologies in Human Research. Advanced Healthcare Materials, 2021, 10, e2100127.	3.9	19
17	Self-synergistic effect of Prussian blue nanoparticles for cancer therapy: driving photothermal therapy and reducing hyperthermia-induced side effects. Journal of Nanobiotechnology, 2021, 19, 126.	4.2	25
18	Excavating bioactivities of nanozyme to remodel microenvironment for protecting chondrocytes and delaying osteoarthritis. Bioactive Materials, 2021, 6, 2439-2451.	8.6	49

#	Article	IF	CITATIONS
19	A soft bioaffinity sensor array for chronic wound monitoring. Matter, 2021, 4, 2613-2615.	5.0	8
20	Wall-induced translation of a rotating particle in a shear-thinning fluid. Journal of Fluid Mechanics, 2021, 927, .	1.4	5
21	Laser-engraved graphene for flexible and wearable electronics. Trends in Chemistry, 2021, 3, 969-981.	4.4	34
22	Wearable and Implantable Devices for Healthcare. Advanced Healthcare Materials, 2021, 10, e2101548.	3.9	15
23	Editorial on "Wearable biosensors for personalized health monitoring― Talanta, 2021, 234, 122635.	2.9	0
24	Integrating Highly Porous and Flexible Au Hydrogels with Soft-MEMS Technologies for High-Performance Wearable Biosensing. Analytical Chemistry, 2021, 93, 14068-14075.	3.2	28
25	Electrical impedance tomography for non-invasive identification of fatty liver infiltrate in overweight individuals. Scientific Reports, 2021, 11, 19859.	1.6	6
26	Restoring HOXD10 Exhibits Therapeutic Potential for Ameliorating Malignant Progression and 5-Fluorouracil Resistance in Colorectal Cancer. Frontiers in Oncology, 2021, 11, 771528.	1.3	7
27	Flexible Electrochemical Bioelectronics: The Rise of In Situ Bioanalysis. Advanced Materials, 2020, 32, e1902083.	11.1	200
28	The Era of Digital Health: A Review of Portable and Wearable Affinity Biosensors. Advanced Functional Materials, 2020, 30, 1906713.	7.8	178
29	Robotics in the Gut. Advanced Therapeutics, 2020, 3, 1900125.	1.6	50
30	A laser-engraved wearable sensor for sensitive detection of uric acid and tyrosine in sweat. Nature Biotechnology, 2020, 38, 217-224.	9.4	683
31	Wireless battery-free wearable sweat sensor powered by human motion. Science Advances, 2020, 6, .	4.7	372
32	SARS-CoV-2 RapidPlex: A Graphene-Based Multiplexed Telemedicine Platform for Rapid and Low-Cost COVID-19 Diagnosis and Monitoring. Matter, 2020, 3, 1981-1998.	5.0	347
33	Bioaffinity Sensors: The Era of Digital Health: A Review of Portable and Wearable Affinity Biosensors (Adv. Funct. Mater. 29/2020). Advanced Functional Materials, 2020, 30, 2070197.	7.8	0
34	Spray-on magnetic skin for robotic actuation. Science Robotics, 2020, 5, .	9.9	4
35	Hollow Magnetic Nanocatalysts Drive Starvation–Chemodynamic–Hyperthermia Synergistic Therapy for Tumor. ACS Nano, 2020, 14, 9662-9674.	7.3	103
36	Wearable Flexible Strain Sensor Based on Three-Dimensional Wavy Laser-Induced Graphene and Silicone Rubber. Sensors, 2020, 20, 4266.	2.1	50

#	Article	IF	CITATIONS
37	Emerging Telemedicine Tools for Remote COVID-19 Diagnosis, Monitoring, and Management. ACS Nano, 2020, 14, 16180-16193.	7.3	178
38	Skin-Interfaced Sensors in Digital Medicine: from Materials to Applications. Matter, 2020, 2, 1414-1445.	5.0	134
39	Motile microelectronics with wireless power. Nature Electronics, 2020, 3, 139-140.	13.1	4
40	Medical micro/nanorobots in complex media. Chemical Society Reviews, 2020, 49, 8088-8112.	18.7	180
41	Investigation of Cortisol Dynamics in Human Sweat Using a Graphene-Based Wireless mHealth System. Matter, 2020, 2, 921-937.	5.0	269
42	Biofuel-powered soft electronic skin with multiplexed and wireless sensing for human-machine interfaces. Science Robotics, 2020, 5, .	9.9	385
43	Flexible Electronics: Flexible Electrochemical Bioelectronics: The Rise of In Situ Bioanalysis (Adv.) Tj ETQq1 1 0.784	1314 rgBT 11.1	Överlock 1
44	Large-scale synthesis of monodisperse Prussian blue nanoparticles for cancer theranostics via an "in situ modification" strategy. International Journal of Nanomedicine, 2019, Volume 14, 271-288.	3.3	28
45	Macroscale Chemotaxis from a Swarm of Bacteriaâ€Mimicking Nanoswimmers. Angewandte Chemie - International Edition, 2019, 58, 12200-12205.	7.2	85
46	Macroscale Chemotaxis from a Swarm of Bacteriaâ€Mimicking Nanoswimmers. Angewandte Chemie, 2019, 131, 12328-12333.	1.6	19
47	A microrobotic system guided by photoacoustic computed tomography for targeted navigation in in in intestines in vivo. Science Robotics, 2019, 4, .	9.9	321
48	Coherent Energy and Charge Transport Processes in Oligothiophene Dendrimers Probed in Solution and in the Solid State with Time-Resolved Spectroscopy and Microscopy Methods. Journal of Physical Chemistry C, 2019, 123, 23419-23426.	1.5	5
49	Glucose-Fueled Micromotors with Highly Efficient Visible-Light Photocatalytic Propulsion. ACS Applied Materials & Interfaces, 2019, 11, 6201-6207.	4.0	79
50	Nanozyme-mediated catalytic nanotherapy for inflammatory bowel disease. Theranostics, 2019, 9, 2843-2855.	4.6	149
51	Physical and Chemical Sensing With Electronic Skin. Proceedings of the IEEE, 2019, 107, 2155-2167.	16.4	56
52	Hollow Prussian Blue Nanozymes Drive Neuroprotection against Ischemic Stroke via Attenuating Oxidative Stress, Counteracting Inflammation, and Suppressing Cell Apoptosis. Nano Letters, 2019, 19, 2812-2823.	4.5	203
53	Flexible and Superwettable Bands as a Platform toward Sweat Sampling and Sensing. Analytical Chemistry, 2019, 91, 4296-4300.	3.2	136
54	Flexible Electronics toward Wearable Sensing. Accounts of Chemical Research, 2019, 52, 523-533.	7.6	713

#	Article	IF	CITATIONS
55	Wearable and Implantable Electronics: Moving toward Precision Therapy. ACS Nano, 2019, 13, 12280-12286.	7.3	150
56	Wearable and flexible electronics for continuous molecular monitoring. Chemical Society Reviews, 2019, 48, 1465-1491.	18.7	855
57	Methylxanthine Drug Monitoring with Wearable Sweat Sensors. Advanced Materials, 2018, 30, e1707442.	11.1	226
58	Micromotors Go In Vivo: From Test Tubes to Live Animals. Advanced Functional Materials, 2018, 28, 1705640.	7.8	106
59	Superwettable Electrochemical Biosensor toward Detection of Cancer Biomarkers. ACS Sensors, 2018, 3, 72-78.	4.0	84
60	Wearable physiological systems and technologies for metabolic monitoring. Journal of Applied Physiology, 2018, 124, 548-556.	1.2	60
61	A nanozyme tag enabled chemiluminescence imaging immunoassay for multiplexed cytokine monitoring. Chemical Communications, 2018, 54, 13813-13816.	2.2	62
62	Flexible Superwettable Tapes for On-Site Detection of Heavy Metals. Analytical Chemistry, 2018, 90, 14105-14110.	3.2	59
63	Wearable pH sensing beyond the Nernst limit. Nature Electronics, 2018, 1, 580-581.	13.1	15
64	Photocatalytic Micro/Nanomotors: From Construction to Applications. Accounts of Chemical Research, 2018, 51, 1940-1947.	7.6	130
65	Prussian Blue Nanozyme with Multienzyme Activity Reduces Colitis in Mice. ACS Applied Materials & Interfaces, 2018, 10, 26108-26117.	4.0	157
66	A Wearable Microfluidic Sensing Patch for Dynamic Sweat Secretion Analysis. ACS Sensors, 2018, 3, 944-952.	4.0	285
67	Roll-to-Roll Gravure Printed Electrochemical Sensors for Wearable and Medical Devices. ACS Nano, 2018, 12, 6978-6987.	7.3	275
68	Visible-Light-Driven BiOI-Based Janus Micromotor in Pure Water. Journal of the American Chemical Society, 2017, 139, 1722-1725.	6.6	283
69	Peripherally diketopyrrolopyrrole-functionalized dendritic oligothiophenes – synthesis, molecular structure, properties and applications. Polymer Chemistry, 2017, 8, 1460-1476.	1.9	9
70	Light-Driven Au-WO ₃ @C Janus Micromotors for Rapid Photodegradation of Dye Pollutants. ACS Applied Materials & Interfaces, 2017, 9, 4674-4683.	4.0	210
71	Micro/nanorobots for biomedicine: Delivery, surgery, sensing, and detoxification. Science Robotics, 2017, 2, .	9.9	1,018
72	Autonomous sweat extraction and analysis applied to cystic fibrosis and glucose monitoring using a fully integrated wearable platform. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4625-4630.	3.3	573

#	Article	IF	CITATIONS
73	A sequence of 28S rRNA-derived small RNAs is enriched in mature sperm and various somatic tissues and possibly associates with inflammation. Journal of Molecular Cell Biology, 2017, 9, 256-259.	1.5	45
74	Materials, Devices and Systems of Soft Bioelectronics for Precision Therapy. Advanced Healthcare Materials, 2017, 6, 1700017.	3.9	45
75	Fuelâ€Free Synthetic Micro…Nanomachines. Advanced Materials, 2017, 29, 1603250.	11.1	310
76	Tuning the optical and electrochemical properties of conjugated all-thiophene dendrimers via core functionalization with a benzothiadiazole unit. RSC Advances, 2017, 7, 1606-1616.	1.7	4
77	Selective Dispersion of Largeâ€Ðiameter Semiconducting Carbon Nanotubes by Functionalized Conjugated Dendritic Oligothiophenes for Use in Printed Thin Film Transistors. Advanced Functional Materials, 2017, 27, 1703938.	7.8	22
78	3D Printed "Earable―Smart Devices for Real-Time Detection of Core Body Temperature. ACS Sensors, 2017, 2, 990-997.	4.0	105
79	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie - International Edition, 2017, 56, 12127-12131.	7.2	126
80	Microfluidic Lithography of Bioinspired Helical Micromotors. Angewandte Chemie, 2017, 129, 12295-12299.	1.6	37
81	Wearable Microfluidic Diaphragm Pressure Sensor for Health and Tactile Touch Monitoring. Advanced Materials, 2017, 29, 1701985.	11.1	431
82	Emulsion Hydrogel Soft Motor Actuated by Thermal Stimulation. ACS Applied Materials & Interfaces, 2017, 9, 43211-43219.	4.0	20
83	Inhibition of Toll-Like Receptor Signaling as a Promising Therapy for Inflammatory Diseases: A Journey from Molecular to Nano Therapeutics. Frontiers in Physiology, 2017, 8, 508.	1.3	266
84	Carbon Nanotubes: Printed Carbon Nanotube Electronics and Sensor Systems (Adv. Mater. 22/2016). Advanced Materials, 2016, 28, 4396-4396.	11.1	8
85	Superfast Nearâ€Infrared Lightâ€Driven Polymer Multilayer Rockets. Small, 2016, 12, 577-582.	5.2	168
86	A Wearable Electrochemical Platform for Noninvasive Simultaneous Monitoring of Ca ²⁺ and pH. ACS Nano, 2016, 10, 7216-7224.	7.3	480
87	Wearable sweat biosensors. , 2016, , .		20
88	Quantitative assessment of the influence of X-ray repair cross-complementing group 3 rs861539 polymorphism and cutaneous melanoma susceptibility. Archives of Dermatological Research, 2016, 308, 173-181.	1.1	0
89	Wearable Microsensor Array for Multiplexed Heavy Metal Monitoring of Body Fluids. ACS Sensors, 2016, 1, 866-874.	4.0	297
90	Application of 3D Printing for Smart Objects with Embedded Electronic Sensors and Systems. Advanced Materials Technologies, 2016, 1, 1600013.	3.0	167

#	Article	IF	CITATIONS
91	Correlation of the π-conjugation chain length and the property and photovoltaic performance of benzo[1,2-b:4,5-bâ€2]dithiophene-cored A-Ī€-D-Ï€-A type molecules. Solar Energy Materials and Solar Cells, 2016, 157, 831-843.	3.0	7
92	Printed Carbon Nanotube Electronics and Sensor Systems. Advanced Materials, 2016, 28, 4397-4414.	11.1	369
93	General Thermal Texturization Process of MoS ₂ for Efficient Electrocatalytic Hydrogen Evolution Reaction. Nano Letters, 2016, 16, 4047-4053.	4.5	106
94	Printed thin film transistors and CMOS inverters based on semiconducting carbon nanotube ink purified by a nonlinear conjugated copolymer. Nanoscale, 2016, 8, 4588-4598.	2.8	44
95	Fully integrated wearable sensor arrays for multiplexed in situ perspiration analysis. Nature, 2016, 529, 509-514.	13.7	3,508
96	Diagnostic accuracy of sub-mSv prospective ECG-triggering cardiac CT in young infant with complex congenital heart disease. International Journal of Cardiovascular Imaging, 2016, 32, 991-998.	0.7	25
97	Highly Efficient Light-Driven TiO ₂ –Au Janus Micromotors. ACS Nano, 2016, 10, 839-844.	7.3	392
98	3Dâ€Printed Artificial Microfish. Advanced Materials, 2015, 27, 4411-4417.	11.1	251
99	Vapor-Driven Propulsion of Catalytic Micromotors. Scientific Reports, 2015, 5, 13226.	1.6	40
100	Cellâ€Membraneâ€Coated Synthetic Nanomotors for Effective Biodetoxification. Advanced Functional Materials, 2015, 25, 3881-3887.	7.8	212
101	Highly sensitive and robust peroxidase-like activity of porous nanorods of ceria and their application for breast cancer detection. Biomaterials, 2015, 59, 116-124.	5.7	212
102	Reversible Swarming and Separation of Self-Propelled Chemically Powered Nanomotors under Acoustic Fields. Journal of the American Chemical Society, 2015, 137, 2163-2166.	6.6	258
103	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
104	Microengine-assisted electrochemical measurements at printable sensor strips. Chemical Communications, 2015, 51, 8668-8671.	2.2	52
105	Motion-based threat detection using microrods: experiments and numerical simulations. Nanoscale, 2015, 7, 7833-7840.	2.8	26
106	Self-Propelled Activated Carbon Janus Micromotors for Efficient Water Purification. Small, 2015, 11, 499-506.	5.2	259
107	Downregulation of long noncoding RNA ZMAT1 transcript variant 2 predicts a poor prognosis in patients with gastric cancer. International Journal of Clinical and Experimental Pathology, 2015, 8, 5556-62.	0.5	9
108	Water-Driven Micromotors for Rapid Photocatalytic Degradation of Biological and Chemical Warfare Agents. ACS Nano, 2014, 8, 11118-11125.	7.3	316

#	Article	IF	CITATIONS
109	Turning Erythrocytes into Functional Micromotors. ACS Nano, 2014, 8, 12041-12048.	7.3	247
110	The Environmental Impact of Micro/Nanomachines: A Review. ACS Nano, 2014, 8, 3170-3180.	7.3	490
111	Bioinspired Helical Microswimmers Based on Vascular Plants. Nano Letters, 2014, 14, 305-310.	4.5	315
112	Fully Loaded Micromotors for Combinatorial Delivery and Autonomous Release of Cargoes. Small, 2014, 10, 2830-2833.	5.2	81
113	Bubble-Propelled Micromotors for Enhanced Transport of Passive Tracers. Langmuir, 2014, 30, 5082-5087.	1.6	136
114	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
115	Nanomotor lithography. Nature Communications, 2014, 5, 5026.	5.8	141
116	Synthetic micro/nanomotors in drug delivery. Nanoscale, 2014, 6, 10486-10494.	2.8	367
117	Ultrasound-Modulated Bubble Propulsion of Chemically Powered Microengines. Journal of the American Chemical Society, 2014, 136, 8552-8555.	6.6	177
118	Template electrosynthesis of tailored-made helical nanoswimmers. Nanoscale, 2014, 6, 9415-9420.	2.8	138
119	Self-propelled chemically-powered plant-tissue biomotors. Chemical Communications, 2013, 49, 7307.	2.2	23
120	Molecularly Imprinted Polymer-Based Catalytic Micromotors for Selective Protein Transport. Journal of the American Chemical Society, 2013, 135, 5336-5339.	6.6	194
121	Functionalized Ultrasound-Propelled Magnetically Guided Nanomotors: Toward Practical Biomedical Applications. ACS Nano, 2013, 7, 9232-9240.	7.3	386
122	Toward inÂvivo detection of hydrogen peroxide with ultrasound molecular imaging. Biomaterials, 2013, 34, 8918-8924.	5.7	93
123	Efficient bubble propulsion of polymer-based microengines in real-life environments. Nanoscale, 2013, 5, 8909.	2.8	54
124	Artificial Enzyme-Powered Microfish for Water-Quality Testing. ACS Nano, 2013, 7, 818-824.	7.3	226
125	Organized Self-Assembly of Janus Micromotors with Hydrophobic Hemispheres. Journal of the American Chemical Society, 2013, 135, 998-1001.	6.6	189
126	Micromotor-based lab-on-chip immunoassays. Nanoscale, 2013, 5, 1325-1331.	2.8	146

#	Article	IF	CITATIONS
127	Nanomotor-based biocatalytic patterning of helical metal microstructures. Nanoscale, 2013, 5, 1310-1314.	2.8	33
128	Multiâ€Fuel Driven Janus Micromotors. Small, 2013, 9, 467-471.	5.2	184
129	Dryâ€Released Nanotubes and Nanoengines by Particleâ€Assisted Rolling. Advanced Materials, 2013, 25, 3715-3721.	11.1	80
130	Seawater-driven magnesium based Janus micromotors for environmental remediation. Nanoscale, 2013, 5, 4696.	2.8	333
131	Robust facial feature localization with probabilistic constrained local models. , 2012, , .		0
132	Self-Propelled Carbohydrate-Sensitive Microtransporters with Built-In Boronic Acid Recognition for Isolating Sugars and Cells. Journal of the American Chemical Society, 2012, 134, 15217-15220.	6.6	125
133	Superhydrophobic Alkanethiol-Coated Microsubmarines for Effective Removal of Oil. ACS Nano, 2012, 6, 4445-4451.	7.3	371
134	Nano/Microscale Motors: Biomedical Opportunities and Challenges. ACS Nano, 2012, 6, 5745-5751.	7.3	565
135	Water-Driven Micromotors. ACS Nano, 2012, 6, 8432-8438.	7.3	326
136	Bacterial Isolation by Lectin-Modified Microengines. Nano Letters, 2012, 12, 396-401.	4.5	300
137	Polymer-based tubular microbots: role of composition and preparation. Nanoscale, 2012, 4, 2447.	2.8	150
138	A novel hierarchical decomposition model for facial caricature synthesis. , 2012, , .		0
139	Cargoâ€Towing Fuelâ€Free Magnetic Nanoswimmers for Targeted Drug Delivery. Small, 2012, 8, 460-467.	5.2	393
140	Catalytically propelled microâ€∤nanomotors: how fast can they move?. Chemical Record, 2012, 12, 224-231.	2.9	100
141	Hydrogen-Bubble-Propelled Zinc-Based Microrockets in Strongly Acidic Media. Journal of the American Chemical Society, 2012, 134, 897-900.	6.6	351
142	Dynamic Isolation and Unloading of Target Proteins by Aptamer-Modified Microtransporters. Analytical Chemistry, 2011, 83, 7962-7969.	3.2	122
143	High-speed propulsion of flexible nanowire motors: Theory and experiments. Soft Matter, 2011, 7, 8169.	1.2	195
144	Highly Efficient Catalytic Microengines: Template Electrosynthesis of Polyaniline/Platinum Microtubes. Journal of the American Chemical Society, 2011, 133, 11862-11864.	6.6	492

#	Article	IF	CITATIONS
145	Over-exposure image correction with automatic texture synthesis. , 2011, , .		4
146	Direct laser writing of micro-supercapacitors on hydrated graphite oxide films. Nature Nanotechnology, 2011, 6, 496-500.	15.6	1,322
147	Hybrid Nanomotor: A Catalytically/Magnetically Powered Adaptive Nanowire Swimmer. Small, 2011, 7, 2047-2051.	5.2	132
148	Simplified Costâ€Effective Preparation of Highâ€Performance Ag–Pt Nanowire Motors. ChemPhysChem, 2010, 11, 2802-2805.	1.0	39
149	Magnetically Powered Flexible Metal Nanowire Motors. Journal of the American Chemical Society, 2010, 132, 14403-14405.	6.6	362
150	Influence of the location of electron donating 3,4-ethylenedioxythiophene (EDOT) moiety in the A-ï€-D-ï€-A type conjugated molecules on the optoelectronic properties and photovoltaic performances. Organic Materials, 0, 03, .	1.0	0