

Mariana Medina-Sánchez

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,578
citations

109321

35
h-index

123424

61
g-index

70
all docs

70
docs citations

70
times ranked

4408
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous monitoring of molecular biomarkers in microfluidic devices. <i>Progress in Molecular Biology and Translational Science</i> , 2022, 187, 295-333.	1.7	0
2	Shape-controlled Flexible Microelectronics Facilitated by Integrated Sensors and Conductive Polymer Actuators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000238.	6.1	22
3	Impedimetric Microfluidic Sensor-in-a-Tube for Label-free Immune Cell Analysis. <i>Small</i> , 2021, 17, e2002549.10.0	10.0	23
4	Rolled-up Metal Oxide Microscaffolds to Study Early Bone Formation at Single Cell Resolution. <i>Small</i> , 2021, 17, e2005527.	10.0	5
5	Switching Propulsion Mechanisms of Tubular Catalytic Micromotors. <i>Small</i> , 2021, 17, e2006449.	10.0	21
6	Micromotor-mediated sperm constrictions for improved swimming performance. <i>European Physical Journal E</i> , 2021, 44, 67.	1.6	4
7	3D and 4D lithography of untethered microrobots. <i>Progress in Materials Science</i> , 2021, 120, 100808.	32.8	50
8	Dual Ultrasound and Photoacoustic Tracking of Magnetically Driven Micromotors: From In Vitro to In Vivo. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101077.	7.6	39
9	Nano-biosupercapacitors enable autarkic sensor operation in blood. <i>Nature Communications</i> , 2021, 12, 4967.	12.8	37
10	Self-sufficient self-oscillating microsystem driven by low power at low Reynolds numbers. <i>Science Advances</i> , 2021, 7, eabj0767.	10.3	8
11	Electronically integrated microcatheters based on self-assembling polymer films. <i>Science Advances</i> , 2021, 7, eabl5408.	10.3	22
12	Tracking of Magnetic Micromotors in Confined Channels Through Scattering Tissue. , 2021, , .		0
13	Advanced Hybrid GaN/ZnO Nanoarchitected Microtubes for Fluorescent Micromotors Driven by UV Light. <i>Small</i> , 2020, 16, 1905141.	10.0	18
14	A Rotating Spiral Micromotor for Noninvasive Zygote Transfer. <i>Advanced Science</i> , 2020, 7, 2000843.	11.2	55
15	Medical Imaging of Microrobots: Toward <i>In Vivo</i> Applications. <i>ACS Nano</i> , 2020, 14, 10865-10893.	14.6	141
16	Human spermbots for patient-representative 3D ovarian cancer cell treatment. <i>Nanoscale</i> , 2020, 12, 20467-20481.	5.6	31
17	Engineering microrobots for targeted cancer therapies from a medical perspective. <i>Nature Communications</i> , 2020, 11, 5618.	12.8	220
18	Magnetic Micromotors for Multiple Motile Sperm Cells Capture, Transport, and Enzymatic Release. <i>Angewandte Chemie</i> , 2020, 132, 15139-15147.	2.0	11

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19	Sperm-Driven Micromotors Moving in Oviduct Fluid and Viscoelastic Media. <i>Small</i> , 2020, 16, e2000213.	10.0	72
20	Magnetic Micromotors for Multiple Motile Sperm Cells Capture, Transport, and Enzymatic Release. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15029-15037.	13.8	62
21	Silicon-Based Integrated Label-Free Optofluidic Biosensors: Latest Advances and Roadmap. <i>Advanced Materials Technologies</i> , 2020, 5, 1901138.	5.8	62
22	A flexible microsystem capable of controlled motion and actuation by wireless power transfer. <i>Nature Electronics</i> , 2020, 3, 172-180.	26.0	73
23	IRONSperm: Sperm-templated soft magnetic microrobots. <i>Science Advances</i> , 2020, 6, eaba5855.	10.3	137
24	Sperm Micromotors for Cargo Delivery through Flowing Blood. <i>ACS Nano</i> , 2020, 14, 2982-2993.	14.6	181
25	Sperm-hybrid micromotors: on-board assistance for nature's bustling swimmers. <i>Reproduction</i> , 2020, 159, R83-R96.	2.6	23
26	Real-Time Optoacoustic Tracking of Single Moving Micro-objects in Deep Phantom and Ex Vivo Tissues. <i>Nano Letters</i> , 2019, 19, 6612-6620.	9.1	64
27	Modeling of Spermibots in a Viscous Colloidal Suspension. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900072.	2.8	8
28	Optoacoustic detection of 3D microstructures in deep tissue-mimicking phantoms. , 2019, , .		2
29	Real-Time IR Tracking of Single Reflective Micromotors through Scattering Tissues. <i>Advanced Functional Materials</i> , 2019, 29, 1905272.	14.9	38
30	Three-Dimensional Microtubular Devices for Lab-on-a-Chip Sensing Applications. <i>ACS Sensors</i> , 2019, 4, 1476-1496.	7.8	38
31	Blood platelet enrichment in mass-producible surface acoustic wave (SAW) driven microfluidic chips. <i>Lab on A Chip</i> , 2019, 19, 4043-4051.	6.0	41
32	Microsystems for Single-Cell Analysis. <i>Advanced Biology</i> , 2018, 2, 1700193.	3.0	21
33	Self-Propelled Micro/Nanoparticle Motors. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700382.	2.3	76
34	Micro- and nano-motors: the new generation of drug carriers. <i>Therapeutic Delivery</i> , 2018, 9, 303-316.	2.2	165
35	Sperm-Hybrid Micromotor for Targeted Drug Delivery. <i>ACS Nano</i> , 2018, 12, 327-337.	14.6	356
36	Swimming Microrobots: Soft, Reconfigurable, and Smart. <i>Advanced Functional Materials</i> , 2018, 28, 1707228.	14.9	154

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37	Microswimmers: Spermatozoa as Functional Components of Robotic Microswimmers (Adv. Mater.) Tj ETQq1 1 0.784314 rgBJ /Overlo	21.0	125
38	Rapid on-chip apoptosis assay on human carcinoma cells based on annexin-V/quantum dot probes. Biosensors and Bioelectronics, 2017, 94, 408-414.	10.1	14
39	Spermatozoa as Functional Components of Robotic Microswimmers. Advanced Materials, 2017, 29, 1606301.	21.0	125
40	Hybrid BioMicromotors. Applied Physics Reviews, 2017, 4, .	11.3	100
41	Autonomously propelled microscavengers for precious metal recovery. Chemical Communications, 2017, 53, 8140-8143.	4.1	12
42	Medical microbots need better imaging and control. Nature, 2017, 545, 406-408.	27.8	227
43	Spermbots: Concept and Applications. Lecture Notes in Computer Science, 2017, , 579-588.	1.3	3
44	Enhanced detection of quantum dots labeled protein by simultaneous bismuth electrodeposition into microfluidic channel. Electrophoresis, 2016, 37, 432-437.	2.4	23
45	Medibots: Dual-Action Biogenic Microdaggers for Single-Cell Surgery and Drug Release. Advanced Materials, 2016, 28, 832-837.	21.0	210
46	Easily scalable high speed magnetic micropropellers. , 2016, , .		0
47	Rapid 3D printing of complex polymeric tubular catalytic micromotors. , 2016, , .		7
48	High-Performance Three-Dimensional Tubular Nanomembrane Sensor for DNA Detection. Nano Letters, 2016, 16, 4288-4296.	9.1	78
49	Water Activated Graphene Oxide Transfer Using Wax Printed Membranes for Fast Patterning of a Touch Sensitive Device. ACS Nano, 2016, 10, 853-860.	14.6	27
50	Cellular Cargo Delivery: Toward Assisted Fertilization by Sperm-Carrying Micromotors. Nano Letters, 2016, 16, 555-561.	9.1	418
51	Microfluidic platform for environmental contaminants sensing and degradation based on boron-doped diamond electrodes. Biosensors and Bioelectronics, 2016, 75, 365-374.	10.1	71
52	Intuitive control of self-propelled microjets with haptic feedback. Journal of Micro-Bio Robotics, 2015, 10, 37-53.	2.1	16
53	How to Improve Spermbot Performance. Advanced Functional Materials, 2015, 25, 2763-2770.	14.9	61
54	Eco-friendly electrochemical lab-on-paper for heavy metal detection. Analytical and Bioanalytical Chemistry, 2015, 407, 8445-8449.	3.7	70

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55	Antithyroid drug detection using an enzyme cascade blocking in a nanoparticle-based lab-on-a-chip system. <i>Biosensors and Bioelectronics</i> , 2015, 67, 670-676.	10.1	39
56	Magnetofluidic platform for multidimensional magnetic and optical barcoding of droplets. <i>Lab on A Chip</i> , 2015, 15, 216-224.	6.0	32
57	On-chip magneto-immunoassay for Alzheimer's biomarker electrochemical detection by using quantum dots as labels. <i>Biosensors and Bioelectronics</i> , 2014, 54, 279-284.	10.1	97
58	An Inkjet-Printed Field-Effect Transistor for Label-Free Biosensing. <i>Advanced Functional Materials</i> , 2014, 24, 6291-6302.	14.9	63
59	Micromotor Enhanced Microarray Technology for Protein Detection. <i>Small</i> , 2014, 10, 2542-2548.	10.0	105
60	Graphene/Silicon Heterojunction Schottky Diode for Vapors Sensing Using Impedance Spectroscopy. <i>Small</i> , 2014, 10, 4193-4199.	10.0	33
61	Improving sensitivity of gold nanoparticle-based lateral flow assays by using wax-printed pillars as delay barriers of microfluidics. <i>Lab on A Chip</i> , 2014, 14, 4406-4414.	6.0	160
62	Paper-Based Electrodes for Nanoparticles Detection. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 662-666.	2.3	18
63	Simple paper architecture modifications lead to enhanced sensitivity in nanoparticle based lateral flow immunoassays. <i>Lab on A Chip</i> , 2013, 13, 386-390.	6.0	111
64	Nanomaterials and lab-on-a-chip technologies. <i>Lab on A Chip</i> , 2012, 12, 1932.	6.0	142
65	On-chip electrochemical detection of CdS quantum dots using normal and multiple recycling flow through modes. <i>Lab on A Chip</i> , 2012, 12, 2000.	6.0	27
66	Spermbots: Magnetic microrobots that assist sperm cells on their journey, opening new routes to assisted reproduction. <i>Reproduction Abstracts</i> , 0, , .	0.0	0