

Veronika Magdanz

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,497
citations

331259

21
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454577

30
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42
all docs

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docs citations

42
times ranked

2440
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Characterization of the Passive Bending Stiffness of Nanoparticle-Coated Sperm Cells using Magnetic Excitation. <i>Advanced Theory and Simulations</i> , 2022, 5, .	1.3	5
2	Magnetic Actuation Methods in Bio/Soft Robotics. <i>Advanced Functional Materials</i> , 2021, 31, 2005137.	7.8	126
3	Impact of Segmented Magnetization on the Flagellar Propulsion of Sperm-Templated Microrobots. <i>Advanced Science</i> , 2021, 8, 2004037.	5.6	29
4	IRONSperm: Sperm-templated soft magnetic microrobots. <i>Science Advances</i> , 2020, 6, eaba5855.	4.7	137
5	Gelatin Microcartridges for Onboard Activation and Antioxidant Protection of Sperm. <i>ACS Applied Bio Materials</i> , 2020, 3, 1616-1627.	2.3	8
6	Resemblance between motile and magnetically actuated sperm cells. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	20
7	Sperm-Particle Interactions and Their Prospects for Charge Mapping. <i>Advanced Biology</i> , 2019, 3, e1900061.	3.0	21
8	Characterization of Flagellar Propulsion of Soft Microrobotic Sperm in a Viscous Heterogeneous Medium. <i>Frontiers in Robotics and AI</i> , 2019, 6, 65.	2.0	7
9	Modeling of Spermrobots in a Viscous Colloidal Suspension. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900072.	1.3	8
10	The motility-based swim-up technique separates bull sperm based on differences in metabolic rates and tail length. <i>PLoS ONE</i> , 2019, 14, e0223576.	1.1	35
11	Nano-and Micromotors Designed for Cancer Therapy. <i>Molecules</i> , 2019, 24, 3410.	1.7	51
12	Charge Mapping: Sperm-Particle Interactions and Their Prospects for Charge Mapping (Adv. Biosys.)	3.6	0
13	Sperm-templated magnetic microrobots. , 2019, , .		4
14	Sperm-Hybrid Micromotor for Targeted Drug Delivery. <i>ACS Nano</i> , 2018, 12, 327-337.	7.3	356
15	Swimming Microrobots: Soft, Reconfigurable, and Smart. <i>Advanced Functional Materials</i> , 2018, 28, 1707228.	7.8	154
16	Spermatozoa as Functional Components of Robotic Microswimmers. <i>Advanced Materials</i> , 2017, 29, 1606301.	11.1	125
17	Modeling of Unidirectional-Overloaded Transition in Catalytic Tubular Microjets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14854-14863.	1.5	9
18	Dynamic Polymeric Microtubes for the Remote-Controlled Capture, Guidance, and Release of Sperm Cells. <i>Advanced Materials</i> , 2016, 28, 4084-4089.	11.1	101

#	ARTICLE	IF	CITATIONS
19	Intuitive control of self-propelled microjets with haptic feedback. <i>Journal of Micro-Bio Robotics</i> , 2015, 10, 37-53.	2.1	16
20	How to Improve Spermbot Performance. <i>Advanced Functional Materials</i> , 2015, 25, 2763-2770.	7.8	61
21	Sperm Migration: Sperm Dynamics in Tubular Confinement (Small 7/2015). <i>Small</i> , 2015, 11, 762-762.	5.2	0
22	Precise Localization and Control of Catalytic Janus Micromotors Using Weak Magnetic Fields. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 2.	1.3	26
23	Sperm Dynamics in Tubular Confinement. <i>Small</i> , 2015, 11, 781-785.	5.2	21
24	Propulsion Mechanism of Catalytic Microjet Engines. <i>IEEE Transactions on Robotics</i> , 2014, 30, 40-48.	7.3	73
25	Spermrobots: potential impact for drug delivery and assisted reproductive technologies. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 1125-1129.	2.4	40
26	Effect of surfactants on the performance of tubular and spherical micromotors – a comparative study. <i>RSC Advances</i> , 2014, 4, 20334-20340.	1.7	58
27	Biocompatible, accurate, and fully autonomous: a sperm-driven micro-bio-robot. <i>Journal of Micro-Bio Robotics</i> , 2014, 9, 79-86.	2.1	34
28	Wireless Magnetic-Based Closed-Loop Control of Self-Propelled Microjets. <i>PLoS ONE</i> , 2014, 9, e83053.	1.1	27
29	Three-dimensional closed-loop control of self-propelled microjets. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	52
30	Development of a Sperm-Flagella Driven Micro-Bio-Robot. <i>Advanced Materials</i> , 2013, 25, 6581-6588.	11.1	356
31	Self-Propelled Micromotors for Cleaning Polluted Water. <i>ACS Nano</i> , 2013, 7, 9611-9620.	7.3	489
32	Micro-robots: Development of a Sperm-Flagella Driven Micro-Bio-Robot (Adv. Mater. 45/2013). <i>Advanced Materials</i> , 2013, 25, 6470-6470.	11.1	1
33	Microfluidic reactor for continuous cultivation of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 2010, 26, 1259-1270.	1.3	47
34	Size-Dependent Inhibition of Sperm Motility by Copper Particles as a Path toward Male Contraception. <i>Advanced NanoBiomed Research</i> , 0, , 2100152.	1.7	0