Veronika Magdanz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1207492/publications.pdf

Version: 2024-02-01

34	2,497	331670 21	454955 30
papers	citations	h-index	g-index

42	42	42	2440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling and Characterization of the Passive Bending Stiffness of Nanoparticleâ€Coated Sperm Cells using Magnetic Excitation. Advanced Theory and Simulations, 2022, 5, .	2.8	5
2	Magnetic Actuation Methods in Bio/Soft Robotics. Advanced Functional Materials, 2021, 31, 2005137.	14.9	126
3	Impact of Segmented Magnetization on the Flagellar Propulsion of Spermâ€Templated Microrobots. Advanced Science, 2021, 8, 2004037.	11.2	29
4	IRONSperm: Sperm-templated soft magnetic microrobots. Science Advances, 2020, 6, eaba5855.	10.3	137
5	Gelatin Microcartridges for Onboard Activation and Antioxidant Protection of Sperm. ACS Applied Bio Materials, 2020, 3, 1616-1627.	4.6	8
6	Resemblance between motile and magnetically actuated sperm cells. Applied Physics Letters, 2020, 116, .	3.3	20
7	Spermâ€“Particle Interactions and Their Prospects for Charge Mapping. Advanced Biology, 2019, 3, e1900061.	3.0	21
8	Characterization of Flagellar Propulsion of Soft Microrobotic Sperm in a Viscous Heterogeneous Medium. Frontiers in Robotics and AI, 2019, 6, 65.	3.2	7
9	Modeling of Spermbots in a Viscous Colloidal Suspension. Advanced Theory and Simulations, 2019, 2, 1900072.	2.8	8
10	The motility-based swim-up technique separates bull sperm based on differences in metabolic rates and tail length. PLoS ONE, 2019, 14, e0223576.	2.5	35
11	Nano-and Micromotors Designed for Cancer Therapy. Molecules, 2019, 24, 3410.	3.8	51
12	Charge Mapping: Spermâ€“Particle Interactions and Their Prospects for Charge Mapping (Adv. Biosys.) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.0	0
13	Sperm-templated magnetic microrobots. , 2019, , .		4
14	Sperm-Hybrid Micromotor for Targeted Drug Delivery. ACS Nano, 2018, 12, 327-337.	14.6	356
15	Swimming Microrobots: Soft, Reconfigurable, and Smart. Advanced Functional Materials, 2018, 28, 1707228.	14.9	154
16	Spermatozoa as Functional Components of Robotic Microswimmers. Advanced Materials, 2017, 29, 1606301.	21.0	125
17	Modeling of Unidirectional-Overloaded Transition in Catalytic Tubular Microjets. Journal of Physical Chemistry C, 2017, 121, 14854-14863.	3.1	9
18	Dynamic Polymeric Microtubes for the Remoteâ€Controlled Capture, Guidance, and Release of Sperm Cells. Advanced Materials, 2016, 28, 4084-4089.	21.0	101

#	Article	IF	Citations
19	Intuitive control of self-propelled microjets with haptic feedback. Journal of Micro-Bio Robotics, 2015, 10, 37-53.	2.1	16
20	How to Improve Spermbot Performance. Advanced Functional Materials, 2015, 25, 2763-2770.	14.9	61
21	Sperm Migration: Sperm Dynamics in Tubular Confinement (Small 7/2015). Small, 2015, 11, 762-762.	10.0	0
22	Precise Localization and Control of Catalytic Janus Micromotors Using Weak Magnetic Fields. International Journal of Advanced Robotic Systems, 2015, 12, 2.	2.1	26
23	Sperm Dynamics in Tubular Confinement. Small, 2015, 11, 781-785.	10.0	21
24	Propulsion Mechanism of Catalytic Microjet Engines. IEEE Transactions on Robotics, 2014, 30, 40-48.	10.3	73
25	Spermbots: potential impact for drug delivery and assisted reproductive technologies. Expert Opinion on Drug Delivery, 2014, 11, 1125-1129.	5.0	40
26	Effect of surfactants on the performance of tubular and spherical micromotors â€“ a comparative study. RSC Advances, 2014, 4, 20334-20340.	3.6	58
27	Biocompatible, accurate, and fully autonomous: a sperm-driven micro-bio-robot. Journal of Micro-Bio Robotics, 2014, 9, 79-86.	2.1	34
28	Wireless Magnetic-Based Closed-Loop Control of Self-Propelled Microjets. PLoS ONE, 2014, 9, e83053.	2.5	27
29	Three-dimensional closed-loop control of self-propelled microjets. Applied Physics Letters, 2013, 103, .	3.3	52
30	Development of a Spermâ€Flagella Driven Microâ€Bioâ€Robot. Advanced Materials, 2013, 25, 6581-6588.	21.0	356
31	Self-Propelled Micromotors for Cleaning Polluted Water. ACS Nano, 2013, 7, 9611-9620.	14.6	489
32	Microâ€robots: Development of a Spermâ€Flagella Driven Microâ€Bioâ€Robot (Adv. Mater. 45/2013). Advanced Materials, 2013, 25, 6470-6470.	21.0	1
33	Microfluidic reactor for continuous cultivation of Saccharomyces cerevisiae. Biotechnology Progress, 2010, 26, 1259-1270.	2.6	47
34	Sizeâ€Dependent Inhibition of Sperm Motility by Copper Particles as a Path toward Male Contraception. Advanced NanoBiomed Research, 0, , 2100152.	3.6	0