Irving N Weinberg

List of Publications by Year
in descending order

19	250	1163117 8	940533 16
papers	citations	h-index	g-index

19	19	19	492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overcoming the Force Limitations of Magnetic Robotic Surgery: Magnetic Pulse Actuated Collisions for Tissueâ€Penetratingâ€Needle for Tetherless Interventions. Advanced Intelligent Systems, 2022, 4, .	6.1	4
2	Enhanced Accuracy in Magnetic Actuation: Closed-Loop Control of a Magnetic Agent With Low-Error Numerical Magnetic Model Estimation. IEEE Robotics and Automation Letters, 2022, 7, 9429-9436.	5.1	4
3	Going Hands-Free: MagnetoSutureâ„¢ for Untethered Guided Needle Penetration of Human Tissue Ex Vivo. Robotics, 2021, 10, 129.	3.5	2
4	Magnetic Model Calibration for Tetherless Surgical Needle Manipulation using Zernike Polynomial Fitting. , 2021, , .		3
5	Magnetic Microdevices for MRI-Based Detection of SARS-CoV-2 Viruses. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 265-267.	2.3	1
6	MagnetoSuture: Tetherless Manipulation of Suture Needles. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 206-215.	3.2	16
7	Hybrid Magneto-Electric Materials for Sensing of Weak Electric Field Using Magnetic-Resonance Imaging. IEEE Transactions on Magnetics, 2020, 56, 1-7.	2.1	2
8	Towards Autonomous Control of Magnetic Suture Needles. , 2020, 2020, .		6
9	Magnetic drilling enhances intra-nasal transport of particles into rodent brain. Journal of Magnetism and Magnetic Materials, 2019, 469, 302-305.	2.3	20
10	Activation of Microwave Signals in Nanoscale Magnetic Tunnel Junctions by Neuronal Action Potentials. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	1
11	Electropermanent magnets for variable-field NMR. Journal of Magnetic Resonance, 2019, 303, 82-90.	2.1	9
12	Magnetically Aligned Nanorods in Alginate Capsules (MANiACs): Soft Matter Tumbling Robots for Manipulation and Drug Delivery. Micromachines, 2019, 10, 230.	2.9	19
13	Electric-field responsive contrast agent based on liquid crystals and magnetic nanoparticles. AIP Advances, 2018, 8, .	1.3	8
14	Magnetically targeted delivery through cartilage. AIP Advances, 2018, 8, .	1.3	5
15	Biofilm disruption with rotating microrods enhances antimicrobial efficacy. Journal of Magnetism and Magnetic Materials, 2017, 427, 81-84.	2.3	23
16	Analysis of driven nanorod transport through a biopolymer matrix. Journal of Magnetism and Magnetic Materials, 2015, 380, 295-298.	2.3	10
17	Dynamic Inversion Enables External Magnets To Concentrate Ferromagnetic Rods to a Central Target. Nano Letters, 2015, 15, 359-364.	9.1	72
18	Increasing the oscillation frequency of strong magnetic fields above 101 kHz significantly raises peripheral nerve excitation thresholds. Medical Physics, 2012, 39, 2578-2583.	3.0	45

#	Article	IF	Citations
19	Image-guided Placement of Magnetic Neuroparticles as a Potential High-Resolution Brain-Machine Interface. , 0, , .		0