

# Irving N Weinberg

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1707782/publications.pdf>

Version: 2024-02-01

19  
papers

250  
citations

1163117

8  
h-index

940533

16  
g-index

19  
all docs

19  
docs citations

19  
times ranked

492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Inversion Enables External Magnets To Concentrate Ferromagnetic Rods to a Central Target. Nano Letters, 2015, 15, 359-364.	9.1	72
2	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
3	Biofilm disruption with rotating microrods enhances antimicrobial efficacy. Journal of Magnetism and Magnetic Materials, 2017, 427, 81-84.	2.3	23
4	Magnetic drilling enhances intra-nasal transport of particles into rodent brain. Journal of Magnetism and Magnetic Materials, 2019, 469, 302-305.	2.3	20
5	Magnetically Aligned Nanorods in Alginate Capsules (MANiACs): Soft Matter Tumbling Robots for Manipulation and Drug Delivery. Micromachines, 2019, 10, 230.	2.9	19
6	MagnetoSuture: Tetherless Manipulation of Suture Needles. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 206-215.	3.2	16
7	Analysis of driven nanorod transport through a biopolymer matrix. Journal of Magnetism and Magnetic Materials, 2015, 380, 295-298.	2.3	10
8	Electropermanent magnets for variable-field NMR. Journal of Magnetic Resonance, 2019, 303, 82-90.	2.1	9
9	Electric-field responsive contrast agent based on liquid crystals and magnetic nanoparticles. AIP Advances, 2018, 8, .	1.3	8
10	Towards Autonomous Control of Magnetic Suture Needles. , 2020, 2020, .		6
11	Magnetically targeted delivery through cartilage. AIP Advances, 2018, 8, .	1.3	5
12	Overcoming the Force Limitations of Magnetic Robotic Surgery: Magnetic Pulse Actuated Collisions for Tissue Penetrating Needle for Tetherless Interventions. Advanced Intelligent Systems, 2022, 4, .	6.1	4
13	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
14	Magnetic Model Calibration for Tetherless Surgical Needle Manipulation using Zernike Polynomial Fitting. , 2021, , .		3
15	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
16	Going Hands-Free: MagnetoSuture for Untethered Guided Needle Penetration of Human Tissue Ex Vivo. Robotics, 2021, 10, 129.	3.5	2
17	Activation of Microwave Signals in Nanoscale Magnetic Tunnel Junctions by Neuronal Action Potentials. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	1
18	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

#	ARTICLE	IF	CITATIONS
19	Image-guided Placement of Magnetic Neoparticles as a Potential High-Resolution Brain-Machine Interface. , 0, , .		0