

# Bradley J Nelson

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

516  
papers

23,358  
citations

79  
h-index

137  
g-index

580  
ext. papers

28,149  
ext. citations

8.3  
avg, IF

7.33  
L-index

#	Paper	IF	Citations
516	Magnetic field interpolation for remote magnetic navigation in minimally invasive surgery <b>2022</b> , 397-424		
515	Increasingly Intelligent Micromachines. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , <b>2022</b> , 5,	11.8	5
514	Magnetically Assisted Robotic Fetal Surgery for the Treatment of Spina Bifida. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2022</b> , 1-1	3.1	2
513	An Electromagnetically Controllable Microrobotic Interventional System for Targeted, Real-time Cardiovascular Intervention.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102529	10.1	1
512	Magnetic helical micro-/nanomachines: Recent progress and perspective. <i>Matter</i> , <b>2022</b> , 5, 77-109	12.7	11
511	Magnetoelectric reduction of chromium(VI) to chromium(III). <i>Applied Materials Today</i> , <b>2022</b> , 26, 101339	6.6	0
510	Magnetoelectric effect in hydrogen harvesting: magnetic field as a trigger of catalytic reactions.. <i>Advanced Materials</i> , <b>2022</b> , e2110612	24	4
509	Biotemplating of Metal-Organic Framework Nanocrystals for Applications in Small-Scale Robotics. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2107421	15.6	2
508	Magnetically Actuated Medical Robots: An in vivo Perspective. <i>Proceedings of the IEEE</i> , <b>2022</b> , 1-10	14.3	3
507	Magnetically Guided Catheters, Micro- and Nanorobots for Spinal Cord Stimulation. <i>Frontiers in Neurorobotics</i> , <b>2021</b> , 15, 749024	3.4	
506	A decade retrospective of medical robotics research from 2010 to 2020. <i>Science Robotics</i> , <b>2021</b> , 6, eabi801876	18.76	22
505	A Survey on Swarm Microrobotics. <i>IEEE Transactions on Robotics</i> , <b>2021</b> , 1-21	6.5	5
504	Thermoset Shape Memory Polymer Variable Stiffness 4D Robotic Catheters. <i>Advanced Science</i> , <b>2021</b> , e2103277	13.6	9
503	Progress in robotics for combating infectious diseases. <i>Science Robotics</i> , <b>2021</b> , 6,	18.6	14
502	An Intelligent In-Shoe System for Gait Monitoring and Analysis with Optimized Sampling and Real-Time Visualization Capabilities. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
501	3D mechanical characterization of single cells and small organisms using acoustic manipulation and force microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 2583	17.4	17
500	Modelling the Impact of Robotics on Infectious Spread Among Healthcare Workers. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 652685	2.8	1

499	Reduced Etch Lag and High Aspect Ratios by Deep Reactive Ion Etching (DRIE). <i>Micromachines</i> , <b>2021</b> , 12,	3.3	6
498	Nano-3D-Printed Photochromic Micro-Objects. <i>Small</i> , <b>2021</b> , 17, e2101337	11	10
497	Photochromic 3D Micro-Objects: Nano-3D-Printed Photochromic Micro-Objects (Small 26/2021). <i>Small</i> , <b>2021</b> , 17, 2170132	11	
496	Constrained-Spherical Deconvolution Tractography in the Evaluation of the Corticospinal Tract in Glioma Surgery. <i>Frontiers in Surgery</i> , <b>2021</b> , 8, 646465	2.3	2
495	A Submillimeter Continuous Variable Stiffness Catheter for Compliance Control. <i>Advanced Science</i> , <b>2021</b> , 8, e2101290	13.6	15
494	Embedded Microbubbles for Acoustic Manipulation of Single Cells and Microfluidic Applications. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9760-9770	7.8	4
493	Magnetic Control of a Flexible Needle in Neurosurgery. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 616-627	5	17
492	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002047	24	97
491	Acoustically Mediated Controlled Drug Release and Targeted Therapy with Degradable 3D Porous Magnetic Microrobots. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001096	10.1	30
490	A Magnetically Navigated Microcannula for Subretinal Injections. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 119-129	5	24
489	Dynamic Modeling of Magnetic Helical Microrobots. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 1-1	4.2	10
488	Bio-inspired Acousto-magnetic Microswarm Robots with Upstream Motility. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 116-124	22.5	26
487	Ultrasound Doppler-guided real-time navigation of a magnetic microswarm for active endovascular delivery. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	63
486	Helical Klinotactic Locomotion of Two-Link Nanoswimmers with Dual-Function Drug-Loaded Soft Polysaccharide Hinges. <i>Advanced Science</i> , <b>2021</b> , 8, 2004458	13.6	7
485	Modeling Electromagnetic Navigation Systems. <i>IEEE Transactions on Robotics</i> , <b>2021</b> , 37, 1009-1021	6.5	8
484	Mechanical factors contributing to the Venus flytrap® rate-dependent response to stimuli. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2021</b> , 20, 2287-2297	3.8	0
483	A Submillimeter Continuous Variable Stiffness Catheter for Compliance Control (Adv. Sci. 18/2021). <i>Advanced Science</i> , <b>2021</b> , 8, 2170118	13.6	3
482	Biodegradable Small-Scale Swimmers for Biomedical Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102042	12	12

481	Enhanced catalytic degradation of organic pollutants by multi-stimuli activated multiferroic nanoarchitectures. <i>Nano Research</i> , <b>2020</b> , 13, 2183-2191	10	17
480	Magnetic cilia carpets with programmable metachronal waves. <i>Nature Communications</i> , <b>2020</b> , 11, 2637	17.4	74
479	REALITI: A Robotic Endoscope Automated via Laryngeal Imaging for Tracheal Intubation. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2020</b> , 2, 157-164	3.1	4
478	A Needle-Type Microrobot for Targeted Drug Delivery by Affixing to a Microtissue. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901697	10.1	26
477	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000740	9.7	11
476	3D-Printed Soft Magnetolectric Microswimmers for Delivery and Differentiation of Neuron-Like Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910323	15.6	82
475	Magnetically and chemically propelled nanowire-based swimmers <b>2020</b> , 777-799		3
474	Kinematics Governing Mechanotransduction in the Sensory Hair of the. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 22,	6.3	3
473	Simultaneous measurement of turgor pressure and cell wall elasticity in growing pollen tubes. <i>Methods in Cell Biology</i> , <b>2020</b> , 160, 297-310	1.8	2
472	Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 1900086	6	46
471	Polymeric microellipsoids with programmed magnetic anisotropy for controlled rotation using low (10 mT) magnetic fields. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100511	6.6	4
470	Modeling Electromagnetic Navigation Systems for Medical Applications using Random Forests and Artificial Neural Networks <b>2020</b> ,		3
469	Reconfigurable Magnetic Microswarm for Thrombolysis under Ultrasound Imaging <b>2020</b> ,		8
468	The rise of robots in surgical environments during COVID-19. <i>Nature Machine Intelligence</i> , <b>2020</b> , 2, 566-572.5	2.5	52
467	Metal-Organic Frameworks in Motion. <i>Chemical Reviews</i> , <b>2020</b> , 120, 11175-11193	68.1	35
466	Laser thermal therapy for epilepsy surgery: current standing and future perspectives. <i>International Journal of Hyperthermia</i> , <b>2020</b> , 37, 77-83	3.7	4
465	Force microscopy of the embryonic eggshell. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 29	7.7	7
464	Mechanically interlocked 3D multi-material micromachines. <i>Nature Communications</i> , <b>2020</b> , 11, 5957	17.4	23

463	CANDYBOTS: A New Generation of 3D-Printed Sugar-Based Transient Small-Scale Robots. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005652	24	13
462	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2001031	10.1	32
461	Magnetically Active Cardiac Patches as an Untethered, Non-Blood Contacting Ventricular Assist Device. <i>Advanced Science</i> , <b>2020</b> , 8, 2000726	13.6	2
460	Quantification of Mechanical Forces and Physiological Processes Involved in Pollen Tube Growth Using Microfluidics and Microrobotics. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2160, 275-292	1.4	2
459	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure <b>2020</b> , 18, e3000740		
458	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure <b>2020</b> , 18, e3000740		
457	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure <b>2020</b> , 18, e3000740		
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452	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure <b>2020</b> , 18, e3000740		
451	Motile Piezoelectric Nanoels for Targeted Drug Delivery. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808135	13.6	41
450	Underpinning transport phenomena for the patterning of biomolecules. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1236-1254	58.5	18
449	Magnetically actuated microrobots as a platform for stem cell transplantation. <i>Science Robotics</i> , <b>2019</b> , 4,	18.6	131
448	Microrobotics: 3D Fabrication of Fully Iron Magnetic Microrobots (Small 16/2019). <i>Small</i> , <b>2019</b> , 15, 1970086	8.6	1
447	MOFBOTS: Metal-Organic-Framework-Based Biomedical Microrobots. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901592	8.4	
446	Magnetoelectrically Driven Catalytic Degradation of Organics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901378	24	44

445	Magnetically navigable 3D printed multifunctional microdevices for environmental applications. <i>Additive Manufacturing</i> , <b>2019</b> , 28, 127-135	6.1	15
444	Synthetic and living micropropellers for convection-enhanced nanoparticle transport. <i>Science Advances</i> , <b>2019</b> , 5, eaav4803	14.3	72
443	Magnetically driven piezoelectric soft microswimmers for neuron-like cell delivery and neuronal differentiation. <i>Materials Horizons</i> , <b>2019</b> , 6, 1512-1516	14.4	46
442	3D Fabrication of Fully Iron Magnetic Microrobots. <i>Small</i> , <b>2019</b> , 15, e1805006	11	51
441	Lab-on-a-Chip and Arrays: 3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles (Small Methods 3/2019). <i>Small Methods</i> , <b>2019</b> , 3, 1970006	12.8	
440	3D path planning for flexible needle steering in neurosurgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2019</b> , 15, e1998	2.9	17
439	3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles. <i>Small Methods</i> , <b>2019</b> , 3, 1800527	12.8	23
438	3D Printing of Thermoplastic-Bonded Soft- and Hard-Magnetic Composites: Magnetically Tuneable Architectures and Functional Devices. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900069	6	7
437	Mineralization-Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13684-13689	3.6	2
436	High-Resolution SPECT Imaging of Stimuli-Responsive Soft Microrobots. <i>Small</i> , <b>2019</b> , 15, e1900709	11	33
435	Mineralization-Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13550-13555	16.4	18
434	Magnetolectric Catalysis: Magnetoelectrically Driven Catalytic Degradation of Organics (Adv. Mater. 28/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970201	24	2
433	Indirect 3D and 4D Printing of Soft Robotic Microstructures. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900332	6.8	47
432	Nanomagnetic encoding of shape-morphing micromachines. <i>Nature</i> , <b>2019</b> , 575, 164-168	50.4	155
431	Magnetic quadrupole assemblies with arbitrary shapes and magnetizations. <i>Science Robotics</i> , <b>2019</b> , 4,	18.6	21
430	On-the-fly catalytic degradation of organic pollutants using magneto-photoresponsive bacteria-templated microcleaners. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24847-24856	13	24
429	A Magnetically Steered Endolaser Probe for Automated Panretinal Photocoagulation. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, xvii-xxiii	4.2	11
428	Imaging Technologies for Biomedical Micro- and Nanoswimmers. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800575	6.8	53

427	Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3214-3223	9.5	12
426	Matryoshka-Inspired Micro-Origami Capsules to Enhance Loading, Encapsulation, and Transport of Drugs. <i>Soft Robotics</i> , <b>2019</b> , 6, 150-159	9.2	17
425	Adaptive locomotion of artificial microswimmers. <i>Science Advances</i> , <b>2019</b> , 5, eaau1532	14.3	127
424	A Microbotic System for Simultaneous Measurement of Turgor Pressure and Cell-Wall Elasticity of Individual Growing Plant Cells. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 641-646	4.2	6
423	A Magnetically Controlled Soft Microrobot Steering a Guidewire in a Three-Dimensional Phantom Vascular Network. <i>Soft Robotics</i> , <b>2019</b> , 6, 54-68	9.2	100
422	A Capsule-Type Microrobot with Pick-and-Drop Motion for Targeted Drug and Cell Delivery. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1700985	10.1	61
421	Hydrogels: Near-Infrared Light-Sensitive Polyvinyl Alcohol Hydrogel Photoresist for Spatiotemporal Control of Cell-Instructive 3D Microenvironments (Adv. Mater. 10/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870070	24	3
420	. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 2123-2128	4.2	24
419	Biocompatibility characteristics of the metal organic framework ZIF-8 for therapeutical applications. <i>Applied Materials Today</i> , <b>2018</b> , 11, 13-21	6.6	108
418	Stereo Holographic Diffraction Based Tracking of Microrobots. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 567-572	4.2	1
417	The grand challenges of. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	464
416	Small-Scale Machines Driven by External Power Sources. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705061	24	124
415	A Robotic Diathermy System for Automated Capsulotomy. <i>Journal of Medical Robotics Research</i> , <b>2018</b> , 03, 1850001	1.1	6
414	Estimation-Based Control of a Magnetic Endoscope without Device Localization. <i>Journal of Medical Robotics Research</i> , <b>2018</b> , 03, 1850002	1.1	26
413	Mobile Magnetic Nanocatalysts for Bioorthogonal Targeted Cancer Therapy. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705920	15.6	58
412	Near-Infrared Light-Sensitive Polyvinyl Alcohol Hydrogel Photoresist for Spatiotemporal Control of Cell-Instructive 3D Microenvironments. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705564	24	60
411	Recent Advances in Wearable Transdermal Delivery Systems. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704530	24	105
410	Soft Micro- and Nanorobotics. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , <b>2018</b> , 1, 53-75.8	15.8	101

409	Chiral anisotropic magnetoresistance of ferromagnetic helices. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 242401	3.4	12
408	Investigation of Magnetotaxis of Reconfigurable Micro-Origami Swimmers with Competitive and Cooperative Anisotropy. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802110	15.6	28
407	Magnetic imaging of a single ferromagnetic nanowire using diamond atomic sensors. <i>Nanotechnology</i> , <b>2018</b> , 29, 405502	3.4	6
406	Bioinspired navigation in shape morphing micromachines for autonomous targeted drug delivery <b>2018</b> ,		2
405	Kinematic Analysis of Magnetic Continuum Robots Using Continuation Method and Bifurcation Analysis. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 3646-3653	4.2	14
404	Controlled Propulsion of Two-Dimensional Microswimmers in a Precessing Magnetic Field. <i>Small</i> , <b>2018</b> , 14, e1800722	11	30
403	Piezoelectrically Enhanced Photocatalysis with BiFeO Nanostructures for Efficient Water Remediation. <i>IScience</i> , <b>2018</b> , 4, 236-246	6.1	124
402	Feeling the force: how pollen tubes deal with obstacles. <i>New Phytologist</i> , <b>2018</b> , 220, 187-195	9.8	18
401	Fabrication and Locomotion of Flexible Nanoswimmers <b>2018</b> ,		1
400	3D Printed Enzymatically Biodegradable Soft Helical Microswimmers. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804107	15.6	131
399	Hard-magnetic cell microscaffolds from electroless coated 3D printed architectures. <i>Materials Horizons</i> , <b>2018</b> , 5, 699-707	14.4	24
398	Surface-Chemistry-Mediated Control of Individual Magnetic Helical Microswimmers in a Swarm. <i>ACS Nano</i> , <b>2018</b> , 12, 6210-6217	16.7	58
397	Template-Assisted Electroforming of Fully Semi-Hard-Magnetic Helical Microactuators. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800179	3.5	12
396	4D printing and robotics. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	39
395	Real-Time Holographic Tracking and Control of Microrobots. <i>IEEE Robotics and Automation Letters</i> , <b>2017</b> , 2, 143-148	4.2	11
394	Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and in vivo animal tests. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 836-845	3.5	21
393	Optimization of Tail Geometry for the Propulsion of Soft Microrobots. <i>IEEE Robotics and Automation Letters</i> , <b>2017</b> , 2, 727-732	4.2	23
392	High precision, localized proton gradients and fluxes generated by a microelectrode device induce differential growth behaviors of pollen tubes. <i>Lab on A Chip</i> , <b>2017</b> , 17, 671-680	7.2	15



391	Magnetostriction in electroplated CoFe alloys. <i>Electrochemistry Communications</i> , <b>2017</b> , 76, 15-19	5.1	10
390	Model-Based Calibration for Magnetic Manipulation. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-6	2	34
389	Magnetic control of continuum devices. <i>International Journal of Robotics Research</i> , <b>2017</b> , 36, 68-85	5.7	79
388	Magnetolectrics: Hybrid Magnetolectric Nanowires for Nanorobotic Applications: Fabrication, Magnetolectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery (Adv. Mater. 8/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	2
387	Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1000-1007	5.5	4
386	Magnetically guided capsule endoscopy. <i>Medical Physics</i> , <b>2017</b> , 44, e91-e111	4.4	48
385	Spatiotemporally controlled electrodeposition of magnetically driven micromachines based on the inverse opal architecture. <i>Electrochemistry Communications</i> , <b>2017</b> , 81, 97-101	5.1	11
384	Recent developments in magnetically driven micro- and nanorobots. <i>Applied Materials Today</i> , <b>2017</b> , 9, 37-48	6.6	228
383	Multiwavelength Light-Responsive Au/B-TiO Janus Micromotors. <i>ACS Nano</i> , <b>2017</b> , 11, 6146-6154	16.7	130
382	Artificial Acousto-Magnetic Soft Microswimmers. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700050	6.8	43
381	Hybrid Magnetolectric Nanowires for Nanorobotic Applications: Fabrication, Magnetolectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605438	24.8	123
380	Robotically controlled microprey to resolve initial attack modes preceding phagocytosis. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	37
379	Neutrophil-inspired propulsion in a combined acoustic and magnetic field. <i>Nature Communications</i> , <b>2017</b> , 8, 770	17.4	105
378	Colloidal polycrystalline monolayers under oscillatory shear. <i>Physical Review E</i> , <b>2017</b> , 95, 012610	2.4	30
377	Magnetic Actuation: Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation (Adv. Funct. Mater. 32/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	1
376	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701904	15.6	31
375	Microswimmers: Artificial Acousto-Magnetic Soft Microswimmers (Adv. Mater. Technol. 7/2017). <i>Advanced Materials Technologies</i> , <b>2017</b> , 2,	6.8	1
374	The tethered magnet: Force and 5-DOF pose control for cardiac ablation <b>2017</b> ,		27

373	Shared control of a magnetic microcatheter for vitreoretinal targeted drug delivery <b>2017</b> ,		15
372	Nanorobotics. <i>Springer Handbooks</i> , <b>2017</b> , 559-584	1.3	
371	Ultrasound-mediated piezoelectric differentiation of neuron-like PC12 cells on PVDF membranes. <i>Scientific Reports</i> , <b>2017</b> , 7, 4028	4.9	82
370	Microrobots for Active Object Manipulation. <i>Microsystems and Nanosystems</i> , <b>2017</b> , 61-72	0.4	1
369	Dumbbell Fluidic Tweezers for Dynamical Trapping and Selective Transport of Microobjects. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604571	15.6	42
368	Measuring Cytomechanical Forces on Growing Pollen Tubes <b>2017</b> , 65-85		1
367	Micro-/Nanorobots <b>2016</b> , 671-716		1
366	Swimming characteristics of helical microrobots in fibrous environments <b>2016</b> ,		10
365	Artificial Swimmers Propelled by Acoustically Activated Flagella. <i>Nano Letters</i> , <b>2016</b> , 16, 4968-74	11.5	140
364	Fabrication and Manipulation of Ciliary Microrobots with Non-reciprocal Magnetic Actuation. <i>Scientific Reports</i> , <b>2016</b> , 6, 30713	4.9	74
363	Dual-axis Cellular Force Microscope for mechanical characterization of living plant cells <b>2016</b> ,		7
362	Probing the micromechanics of the fastest growing plant cell - the pollen tube. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 461-464	0.9	4
361	Self-folding hydrogel bilayer for enhanced drug loading, encapsulation, and transport. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 2103-2106	0.9	6
360	Cellular forces and matrix assembly coordinate fibrous tissue repair. <i>Nature Communications</i> , <b>2016</b> , 7, 11036	17.4	74
359	Soft micromachines with programmable motility and morphology. <i>Nature Communications</i> , <b>2016</b> , 7, 12263	17.4	356
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325	Tracking a magnetically guided catheter with a single rotating C-Arm <b>2015</b> ,		5
324	Silicon-supported aluminum oxide membranes with ultrahigh aspect ratio nanopores. <i>RSC Advances</i> , <b>2015</b> , 5, 94283-94289	3.7	9
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312	Visible light curing of Epon SU-8 based superparamagnetic polymer composites with random and ordered particle configurations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 193-200	9.5	7
311	Magnetic Helical Microswimmers Functionalized with Lipoplexes for Targeted Gene Delivery. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1666-1671	15.6	228
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184	Two-axis micro-tensile tester chip for measuring plant cell mechanics <b>2010</b> ,		1
183	OctoMag: An electromagnetic system for 5-DOF wireless micromanipulation <b>2010</b> ,		34
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