Bradley J Nelson

List of Publications by Citations

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	Microrobots for minimally invasive medicine. *Annual Review of Biomedical Engineering*, **2010**, 12, 55-85	12	1191
515	Magnetic helical micromachines: fabrication, controlled swimming, and cargo transport. *Advanced Materials*, **2012**, 24, 811-6	24	777
514	Artificial bacterial flagella: Fabrication and magnetic control. *Applied Physics Letters*, **2009**, 94, 064107	3.4	728
513	OctoMag: An Electromagnetic System for 5-DOF Wireless Micromanipulation. *IEEE Transactions on Robotics*, **2010**, 26, 1006-1017	6.5	681
512	Bio-inspired magnetic swimming microrobots for biomedical applications. *Nanoscale*, **2013**, 5, 1259-72	7.7	494
511	The grand challenges of. *Science Robotics*, **2018**, 3,	18.6	464
510	How Should Microrobots Swim?. *International Journal of Robotics Research*, **2009**, 28, 1434-1447	5.7	442
509	Characterizing the swimming properties of artificial bacterial flagella. *Nano Letters*, **2009**, 9, 3663-7	11.5	365
508	Soft micromachines with programmable motility and morphology. *Nature Communications*, **2016**, 7, 12263	17.4	356
507	Controlled in vivo swimming of a swarm of bacteria-like microrobotic flagella. *Advanced Materials*, **2015**, 27, 2981-8	24	308
506	Autofocusing in computer microscopy: selecting the optimal focus algorithm. *Microscopy Research and Technique*, **2004**, 65, 139-49	2.8	286
505	Monolithically Fabricated Microgripper With Integrated Force Sensor for Manipulating Microobjects and Biological Cells Aligned in an Ultrasonic Field. *Journal of Microelectromechanical Systems*, **2007**, 16, 7-15	2.5	274
504	Fabrication and characterization of magnetic microrobots for three-dimensional cell culture and targeted transportation. *Advanced Materials*, **2013**, 25, 5863-8	24	267
503	Robotics in the Small, Part I: Microbotics. *IEEE Robotics and Automation Magazine*, **2007**, 14, 92-103	3.4	256
502	Biological Cell Injection Using an Autonomous MicroRobotic System. *International Journal of Robotics Research*, **2002**, 21, 861-868	5.7	238
501	Recent developments in magnetically driven micro- and nanorobots. *Applied Materials Today*, **2017**, 9, 37-48	6.6	228
500	Magnetic Helical Microswimmers Functionalized with Lipoplexes for Targeted Gene Delivery. *Advanced Functional Materials*, **2015**, 25, 1666-1671	15.6	228

499	Mechanical property characterization of mouse zona pellucida. *IEEE Transactions on Nanobioscience*, **2003**, 2, 279-86	3.4	226
498	Artificial bacterial flagella for micromanipulation. *Lab on A Chip*, **2010**, 10, 2203-15	7.2	225
497	Controlled propulsion and cargo transport of rotating nickel nanowires near a patterned solid surface. *ACS Nano*, **2010**, 4, 6228-34	16.7	216
496	Modeling Magnetic Torque and Force for Controlled Manipulation of Soft-Magnetic Bodies **2007**, 23, 1247-1252		213
495	An integrated microrobotic platform for on-demand, targeted therapeutic interventions. *Advanced Materials*, **2014**, 26, 952-7	24	200
494	Fibronectin forms the most extensible biological fibers displaying switchable force-exposed cryptic binding sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18267-72	11.5	192
493	Magnetic helical micromachines. *Chemistry - A European Journal*, **2013**, 19, 28-38	4.8	173
492	Nanomagnetic encoding of shape-morphing micromachines. *Nature*, **2019**, 575, 164-168	50.4	155
491	Nanorobotic spot welding: controlled metal deposition with attogram precision from copper-filled carbon nanotubes. *Nano Letters*, **2007**, 7, 58-63	11.5	155
490	Degradable Magnetic Composites for Minimally Invasive Interventions: Device Fabrication, Targeted Drug Delivery, and Cytotoxicity Tests. *Advanced Materials*, **2016**, 28, 533-8	24	150
489	Artificial bacterial flagella for remote-controlled targeted single-cell drug delivery. *Small*, **2014**, 10, 1953-7	11	150
488	3D Printed Microtransporters: Compound Micromachines for Spatiotemporally Controlled Delivery of Therapeutic Agents. *Advanced Materials*, **2015**, 27, 6644-50	24	148
487	Undulatory Locomotion of Magnetic Multilink Nanoswimmers. *Nano Letters*, **2015**, 15, 4829-33	11.5	147
486	Small, Fast, and Under Control: Wireless Resonant Magnetic Micro-agents. *International Journal of Robotics Research*, **2010**, 29, 613-636	5.7	145
485	Anomalous coiling of SiGe/Si and SiGe/Si/Cr helical nanobelts. *Nano Letters*, **2006**, 6, 1311-7	11.5	141
484	Artificial Swimmers Propelled by Acoustically Activated Flagella. *Nano Letters*, **2016**, 16, 4968-74	11.5	140
483	Magnetically actuated microrobots as a platform for stem cell transplantation. *Science Robotics*, **2019**, 4,	18.6	131
482	3D Printed Enzymatically Biodegradable Soft Helical Microswimmers. *Advanced Functional Materials* , **2018**, 28, 1804107	15.6	131

481	Multiwavelength Light-Responsive Au/B-TiO Janus Micromotors. *ACS Nano*, **2017**, 11, 6146-6154	16.7	130
480	Selective trapping and manipulation of microscale objects using mobile microvortices. *Nano Letters*, **2012**, 12, 156-60	11.5	129
479	Adaptive locomotion of artificial microswimmers. *Science Advances*, **2019**, 5, eaau1532	14.3	127
478	Mobility experiments with microrobots for minimally invasive intraocular surgery **2013**, 54, 2853-63		125
477	Small-Scale Machines Driven by External Power Sources. *Advanced Materials*, **2018**, 30, e1705061	24	124
476	Piezoelectrically Enhanced Photocatalysis with BiFeO Nanostructures for Efficient Water Remediation. *IScience*, **2018**, 4, 236-246	6.1	124
475	Fabrication and characterization of three-dimensional InGaAs/GaAs nanosprings. *Nano Letters*, **2006**, 6, 725-9	11.5	124
474	Hybrid Magnetoelectric Nanowires for Nanorobotic Applications: Fabrication, Magnetoelectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery. *Advanced Materials*, **2017**, 29, 1605458	24	123
473	A bulk microfabricated multi-axis capacitive cellular force sensor using transverse comb drives. *Journal of Micromechanics and Microengineering*, **2002**, 12, 832-840	2	123
472	Three-Dimensional Magnetic Manipulation of Micro- and Nanostructures for Applications in Life Sciences. *IEEE Transactions on Magnetics*, **2013**, 49, 321-330	2	120
471	Cellular force microscopy for in vivo measurements of plant tissue mechanics. *Plant Physiology*, **2012**, 158, 1514-22	6.6	116
470	Synthesis and characterization of a nanocomposite of goethite nanorods and reduced graphene oxide for electrochemical capacitors. *Journal of Solid State Chemistry*, **2012**, 185, 191-197	3.3	111
469	Hermetically Coated Superparamagnetic Fe2O3 Particles with SiO2 Nanofilms. *Chemistry of Materials*, **2009**, 21, 2094-2100	9.6	110
468	Biocompatibility characteristics of the metal organic framework ZIF-8 for therapeutical applications. *Applied Materials Today*, **2018**, 11, 13-21	6.6	108
467	A Six-Axis MEMS Force–Torque Sensor With Micro-Newton and Nano-Newtonmeter Resolution. *Journal of Microelectromechanical Systems*, **2009**, 18, 433-441	2.5	106
466	Neutrophil-inspired propulsion in a combined acoustic and magnetic field. *Nature Communications*, **2017**, 8, 770	17.4	105
465	Recent Advances in Wearable Transdermal Delivery Systems. *Advanced Materials*, **2018**, 30, 1704530	24	105
464	Targeted cargo delivery using a rotating nickel nanowire. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 1074-80	6	105

463	Characterizing fruit fly flight behavior using a microforce sensor with a new comb-drive configuration. *Journal of Microelectromechanical Systems*, **2005**, 14, 4-11	2.5	103
462	Soft Micro- and Nanorobotics. *Annual Review of Control, Robotics, and Autonomous Systems*, **2018**, 1, 53-75	11.8	101
461	A Magnetically Controlled Soft Microrobot Steering a Guidewire in a Three-Dimensional Phantom Vascular Network. *Soft Robotics*, **2019**, 6, 54-68	9.2	100
460	Shape-switching microrobots for medical applications: the influence of shape in drug delivery and locomotion. *ACS Applied Materials & Interfaces*, **2015**, 7, 6803-11	9.5	97
459	Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. *Advanced Materials*, **2021**, 33, e2002047	24	97
458	Magnetically Driven Silver-Coated Nanocoils for Efficient Bacterial Contact Killing. *Advanced Functional Materials*, **2016**, 26, 1063-1069	15.6	96
457	B4C-nanowires/carbon-microfiber hybrid structures and composites from cotton T-shirts. *Advanced Materials*, **2010**, 22, 2055-9	24	94
456	Vision-based force measurement. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2004**, 26, 290-8	13.3	94
455	Hybrid helical magnetic microrobots obtained by 3D template-assisted electrodeposition. *Small*, **2014**, 10, 1284-8	11	93
454	The pollen tube: a soft shell with a hard core. *Plant Journal*, **2013**, 73, 617-27	6.9	93
453	Wireless resonant magnetic microactuator for untethered mobile microrobots. *Applied Physics Letters*, **2008**, 92, 144103	3.4	91
452	Artificial bacterial flagella functionalized with temperature-sensitive liposomes for controlled release. *Sensors and Actuators B: Chemical*, **2014**, 196, 676-681	8.5	89
451	Transition metal oxide and graphene nanocomposites for high-performance electrochemical capacitors. *Physical Chemistry Chemical Physics*, **2012**, 14, 16331-7	3.6	89
450	Micropositioning of a weakly calibrated microassembly system using coarse-to-fine visual servoing strategies. *IEEE Transactions on Electronics Packaging Manufacturing*, **2000**, 23, 123-131		88
449	Behavior of rotating magnetic microrobots above the step-out frequency with application to control of multi-microrobot systems. *Applied Physics Letters*, **2014**, 104, 144101	3.4	87
448	Highly Efficient Coaxial TiO2-PtPd Tubular Nanomachines for Photocatalytic Water Purification with Multiple Locomotion Strategies. *Advanced Functional Materials*, **2016**, 26, 6995-7002	15.6	86
447	Chitosan electrodeposition for microrobotic drug delivery. *Advanced Healthcare Materials*, **2013**, 2, 1037-44	10.1	85
446	MOFBOTS: Metal-Organic-Framework-Based Biomedical Microrobots. *Advanced Materials*, **2019**, 31, e1901592	24	84

445	Morphology, structure and magnetic properties of cobalt–nickel films obtained from acidic electrolytes containing glycine. *Electrochimica Acta*, **2011**, 56, 1399-1408	6.7	83
444	Magnetically driven Bi2O3/BiOCl-based hybrid microrobots for photocatalytic water remediation. *Journal of Materials Chemistry A*, **2015**, 3, 23670-23676	13	82
443	3D-Printed Soft Magnetoelectric Microswimmers for Delivery and Differentiation of Neuron-Like Cells. *Advanced Functional Materials*, **2020**, 30, 1910323	15.6	82
442	Superparamagnetic microrobots: fabrication by two-photon polymerization and biocompatibility. *Biomedical Microdevices*, **2013**, 15, 997-1003	3.7	82
441	Ultrasound-mediated piezoelectric differentiation of neuron-like PC12 cells on PVDF membranes. *Scientific Reports*, **2017**, 7, 4028	4.9	82
440	Magnetic control of continuum devices. *International Journal of Robotics Research*, **2017**, 36, 68-85	5.7	79
439	Carbon nanotubes for nanorobotics. *Nano Today*, **2007**, 2, 12-21	17.9	77
438	Magnetic cilia carpets with programmable metachronal waves. *Nature Communications*, **2020**, 11, 2637	17.4	74
437	Fabrication and Manipulation of Ciliary Microrobots with Non-reciprocal Magnetic Actuation. *Scientific Reports*, **2016**, 6, 30713	4.9	74
436	Cellular forces and matrix assembly coordinate fibrous tissue repair. *Nature Communications*, **2016**, 7, 11036	17.4	74
435	Nanocrystalline Electroplated CuNi: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior. *Advanced Functional Materials*, **2010**, 20, 983-991	15.6	73
434	Synthetic and living micropropellers for convection-enhanced nanoparticle transport. *Science Advances*, **2019**, 5, eaav4803	14.3	72
433	Magnetic Helical Micro- and Nanorobots: Toward Their Biomedical Applications. *Engineering*, **2015**, 1, 021-026	9.7	72
432	A Magnetically Controlled Wireless Optical Oxygen Sensor for Intraocular Measurements. *IEEE Sensors Journal*, **2008**, 8, 29-37	4	72
431	Superparamagnetic Twist-Type Actuators with Shape-Independent Magnetic Properties and Surface Functionalization for Advanced Biomedical Applications. *Advanced Functional Materials*, **2014**, 24, 5269-5276	15.6	71
430	A Supervisory Wafer-Level 3D Microassembly System for Hybrid MEMS Fabrication. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2003**, 37, 43-68	2.9	69
429	Sensor-based microassembly of hybrid MEMS devices. *IEEE Control Systems*, **1998**, 18, 35-45	2.9	68
428	Electroforming of implantable tubular magnetic microrobots for wireless ophthalmologic applications. *Advanced Healthcare Materials*, **2015**, 4, 209-14	10.1	67

427	Assembly, disassembly, and anomalous propulsion of microscopic helices. *Nano Letters*, **2013**, 13, 4263-811.5		66
426	Strategies for Increasing the Tracking Region of an Eye-in-Hand System by Singularity and Joint Limit Avoidance. *International Journal of Robotics Research*, **1995**, 14, 255-269	5.7	66
425	Ultrasound Doppler-guided real-time navigation of a magnetic microswarm for active endovascular delivery. *Science Advances*, **2021**, 7,	14.3	63
424	A Capsule-Type Microrobot with Pick-and-Drop Motion for Targeted Drug and Cell Delivery. *Advanced Healthcare Materials*, **2018**, 7, e1700985	10.1	61
423	Electrodeposition of low residual stress CoNiMnP hard magnetic thin films for magnetic MEMS actuators. *Journal of Magnetism and Magnetic Materials*, **2005**, 292, 49-58	2.8	61
422	. *IEEE Transactions on Robotics*, **2015**, 31, 714-722	6.5	60
421	Near-Infrared Light-Sensitive Polyvinyl Alcohol Hydrogel Photoresist for Spatiotemporal Control of Cell-Instructive 3D Microenvironments. *Advanced Materials*, **2018**, 30, 1705564	24	60
420	Tutorial - Robotics in the small Part II: Nanorobotics. *IEEE Robotics and Automation Magazine*, **2007**, 14, 111-121	3.4	59
419	Force and vision resolvability for assimilating disparate sensory feedback. *IEEE Transactions on Automation Science and Engineering*, **1996**, 12, 714-731		59
418	Mobile Magnetic Nanocatalysts for Bioorthogonal Targeted Cancer Therapy. *Advanced Functional Materials*, **2018**, 28, 1705920	15.6	58
417	A micro-particle positioning technique combining an ultrasonic manipulator and a microgripper. *Journal of Micromechanics and Microengineering*, **2006**, 16, 1562-1570	2	58
416	Surface-Chemistry-Mediated Control of Individual Magnetic Helical Microswimmers in a Swarm. *ACS Nano*, **2018**, 12, 6210-6217	16.7	58
415	Piezoresistive InGaAs/GaAs nanosprings with metal connectors. *Nano Letters*, **2009**, 9, 554-61	11.5	56
414	. *IEEE Transactions on Automation Science and Engineering*, **2006**, 3, 228-235	4.9	56
413	A high-aspect-ratio two-axis electrostatic microactuator with extended travel range. *Sensors and Actuators A: Physical*, **2002**, 102, 49-60	3.9	54
412	Magnetoelectric micromachines with wirelessly controlled navigation and functionality. *Materials Horizons*, **2016**, 3, 113-118	14.4	53
411	Noncytotoxic artificial bacterial flagella fabricated from biocompatible ORMOCOMP and iron coating. *Journal of Materials Chemistry B*, **2014**, 2, 357-362	7.3	53
410	Noncontact manipulation using a transversely magnetized rolling robot. *Applied Physics Letters*, **2013**, 103, 114101	3.4	53

409	Imaging Technologies for Biomedical Micro- and Nanoswimmers. *Advanced Materials Technologies*, **2019**, 4, 1800575	6.8	53
408	Grain boundary segregation and interdiffusion effects in nickel-copper alloys: an effective means to improve the thermal stability of nanocrystalline nickel. *ACS Applied Materials & Interfaces*, **2011**, 3, 2265-74	9.5	52
407	MEMS capacitive force sensors for cellular and flight biomechanics. *Biomedical Materials (Bristol)*, **2007**, 2, S16-22	3.5	52
406	Mechanical analysis of chorion softening in prehatching stages of zebrafish embryos. *IEEE Transactions on Nanobioscience*, **2006**, 5, 89-94	3.4	52
405	The rise of robots in surgical environments during COVID-19. *Nature Machine Intelligence*, **2020**, 2, 566-572	12.5	52
404	3D Fabrication of Fully Iron Magnetic Microrobots. *Small*, **2019**, 15, e1805006	11	51
403	Robust Electromagnetic Control of Microrobots Under Force and Localization Uncertainties. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 310-316	4.9	50
402	A photopatternable superparamagnetic nanocomposite: Material characterization and fabrication of microstructures. *Sensors and Actuators B: Chemical*, **2011**, 156, 433-443	8.5	49
401	Three-dimensional nanosprings for electromechanical sensors. *Sensors and Actuators A: Physical*, **2006**, 130-131, 54-61	3.9	49
400	Magnetically guided capsule endoscopy. *Medical Physics*, **2017**, 44, e91-e111	4.4	48
399	A smart multifunctional drug delivery nanoplatform for targeting cancer cells. *Nanoscale*, **2016**, 8, 12723-8	7.7	48
398	Visually Servoing Magnetic Intraocular Microdevices. *IEEE Transactions on Robotics*, **2012**, 28, 798-809	6.5	48
397	Indirect 3D and 4D Printing of Soft Robotic Microstructures. *Advanced Materials Technologies*, **2019**, 4, 1900332	6.8	47
396	Calibration of Multi-Axis MEMS Force Sensors Using the Shape-From-Motion Method. *IEEE Sensors Journal*, **2007**, 7, 344-351	4	47
395	Batch fabrication of carbon nanotube bearings. *Nanotechnology*, **2007**, 18, 075703	3.4	47
394	Magnetically driven piezoelectric soft microswimmers for neuron-like cell delivery and neuronal differentiation. *Materials Horizons*, **2019**, 6, 1512-1516	14.4	46
393	Flagella-like Propulsion for Microrobots Using a Nanocoil and a Rotating Electromagnetic Field **2007**,		46
392	Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. *Advanced Intelligent Systems*, **2020**, 2, 1900086	6	46

391	Catalytic Locomotion of Core-Shell Nanowire Motors. *ACS Nano*, **2016**, 10, 9983-9991	16.7	45
390	Calibration of a parametric model of an optical microscope. *Optical Engineering*, **1999**, 38, 1989	1.1	45
389	Magnetoelectrically Driven Catalytic Degradation of Organics. *Advanced Materials*, **2019**, 31, e1901378	24	44
388	Real-time Rigid-body Visual Tracking in a Scanning Electron Microscope. *International Journal of Robotics Research*, **2009**, 28, 498-511	5.7	44
387	Localized non-contact manipulation using artificial bacterial flagella. *Applied Physics Letters*, **2011**, 99, 174101	3.4	44
386	Artificial Acousto-Magnetic Soft Microswimmers. *Advanced Materials Technologies*, **2017**, 2, 1700050	6.8	43
385	A comparison between fine-grained and nanocrystalline electrodeposited CuNi films. Insights on mechanical and corrosion performance. *Surface and Coatings Technology*, **2011**, 205, 5285-5293	4.4	43
384	Dumbbell Fluidic Tweezers for Dynamical Trapping and Selective Transport of Microobjects. *Advanced Functional Materials*, **2017**, 27, 1604571	15.6	42
383	Travel range extension of a MEMS electrostatic microactuator. *IEEE Transactions on Control Systems Technology*, **2005**, 13, 138-145	4.8	42
382	Motile Piezoelectric Nanoeels for Targeted Drug Delivery. *Advanced Functional Materials*, **2019**, 29, 1808136	15.6	41
381	In situ construction of potato starch based carbon nanofiber/activated carbon hybrid structure for high-performance electrical double layer capacitor. *Journal of Power Sources*, **2012**, 207, 199-204	8.9	41
380	Microrobots: a new era in ocular drug delivery. *Expert Opinion on Drug Delivery*, **2014**, 11, 1815-26	8	41
379	. *IEEE Transactions on Automation Science and Engineering*, **1995**, 11, 725-732		41
378	Measuring the Mechanical Properties of Plant Cell Walls. *Plants*, **2015**, 4, 167-82	4.5	40
377	A CAD model based tracking system for visually guided microassembly. *Robotica*, **2005**, 23, 409-418	2.1	40
376	Helical and tubular lipid microstructures that are electroless-coated with CoNiReP for wireless magnetic manipulation. *Small*, **2012**, 8, 1498-502	11	39
375	4D printing and robotics. *Science Robotics*, **2018**, 3,	18.6	39
374	Polymer-Based Wireless Resonant Magnetic Microrobots. *IEEE Transactions on Robotics*, **2014**, 30, 26-32	6.5	38

373	Micro- and nanorobots swimming in heterogeneous liquids. *ACS Nano*, **2014**, 8, 8718-24	16.7	38
372	Graphite Coating of Iron Nanowires for Nanorobotic Applications: Synthesis, Characterization and Magnetic Wireless Manipulation. *Advanced Functional Materials*, **2013**, 23, 823-831	15.6	38
371	Optomechatronic design of microassembly systems for manufacturing hybrid microsystems. *IEEE Transactions on Industrial Electronics*, **2005**, 52, 1013-1023	8.9	38
370	Robotically controlled microprey to resolve initial attack modes preceding phagocytosis. *Science Robotics*, **2017**, 2,	18.6	37
369	Cooperative manipulation and transport of microobjects using multiple helical microcarriers. *RSC Advances*, **2014**, 4, 26771-26776	3.7	37
368	Three-axis micro-force sensor with sub-micro-Newton measurement uncertainty and tunable force range. *Journal of Micromechanics and Microengineering*, **2010**, 20, 025011	2	37
367	Superparamagnetic photocurable nanocomposite for the fabrication of microcantilevers. *Journal of Micromechanics and Microengineering*, **2011**, 21, 025023	2	37
366	Nanotube fluidic junctions: internanotube attogram mass transport through walls. *Nano Letters*, **2009**, 9, 210-4	11.5	37
365	Shaping Nanoelectrodes for High-Precision Dielectrophoretic Assembly of Carbon Nanotubes. *IEEE Nanotechnology Magazine*, **2009**, 8, 449-456	2.6	37
364	Strategies for single particle manipulation using acoustic and flow fields. *Ultrasonics*, **2010**, 50, 247-57	3.5	36
363	MiniMag: A Hemispherical Electromagnetic System for 5-DOF Wireless Micromanipulation. *Springer Tracts in Advanced Robotics*, **2014**, 317-329	0.5	36
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360	Metal-Organic Frameworks in Motion. *Chemical Reviews*, **2020**, 120, 11175-11193	68.1	35
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357	OctoMag: An electromagnetic system for 5-DOF wireless micromanipulation **2010**,		34
356	Microfluidic-Based Droplet and Cell Manipulations Using Artificial Bacterial Flagella. *Micromachines*, **2016**, 7,	3.3	34

355	High-Resolution SPECT Imaging of Stimuli-Responsive Soft Microrobots. *Small*, **2019**, 15, e1900709	11	33
354	Non-ideal swimming of artificial bacterial flagella near a surface **2010**,		33
353	A Microassembly System for the Flexible Assembly of Hybrid Robotic Mems Devices. *International Journal of Optomechatronics*, **2009**, 3, 69-90	3.5	33
352	Fabrication of segmented Au/Co/Au nanowires: insights in the quality of Co/Au junctions. *ACS Applied Materials & Interfaces*, **2014**, 6, 14583-9	9.5	32
351	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). *Advanced Healthcare Materials*, **2020**, 9, e2001031	10.1	32
350	Comparison, optimization, and limitations of magnetic manipulation systems. *Journal of Micro-Bio Robotics*, **2013**, 8, 107-120	1.4	31
349	Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. *Advanced Functional Materials*, **2017**, 27, 1701904	15.6	31
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347	MEMS FOR CELLULAR FORCE MEASUREMENTS AND MOLECULAR DETECTION. *International Journal of Information Acquisition*, **2004**, 01, 23-32		31
346	Electrochemical Codeposition of Magnetic Particle-Ferromagnetic Matrix Composites for Magnetic MEMS Actuator Applications. *Journal of the Electrochemical Society*, **2004**, 151, C545	3.9	31
345	Integrating Optical Force Sensing with Visual Servoing for Microassembly. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2000**, 28, 259-276	2.9	31
344	Hyperthermia with rotating magnetic nanowires inducing heat into tumor by fluid friction. *Journal of Applied Physics*, **2016**, 120, 064304	2.5	31
343	Controlled Propulsion of Two-Dimensional Microswimmers in a Precessing Magnetic Field. *Small*, **2018**, 14, e1800722	11	30
342	Colloidal polycrystalline monolayers under oscillatory shear. *Physical Review E*, **2017**, 95, 012610	2.4	30
341	Fabrication and characterization of freestanding Si/Cr micro- and nanospirals. *Microelectronic Engineering*, **2006**, 83, 1237-1240	2.5	30
340	Acoustically Mediated Controlled Drug Release and Targeted Therapy with Degradable 3D Porous Magnetic Microrobots. *Advanced Healthcare Materials*, **2021**, 10, e2001096	10.1	30
339	Protein crystal harvesting using the RodBot: a wireless mobile microrobot. *Journal of Applied Crystallography*, **2014**, 47, 692-700	3.8	29
338	Toward targeted retinal drug delivery with wireless magnetic microrobots **2008**,		29

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333	Magnetic composite electroplating for depositing micromagnets. *Journal of Microelectromechanical Systems*, **2006**, 15, 330-337	2.5	28
332	Massively Parallelized Pollen Tube Guidance and Mechanical Measurements on a Lab-on-a-Chip Platform. *PLoS ONE*, **2016**, 11, e0168138	3.7	28
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330	Assembling reconfigurable endoluminal surgical systems: opportunities and challenges. *International Journal of Biomechatronics and Biomedical Robotics*, **2009**, 1, 3	0	27
329	Design and calibration of a MEMS sensor for measuring the force and torque acting on a magnetic microrobot. *Journal of Micromechanics and Microengineering*, **2008**, 18, 025004	2	27
328	A Needle-Type Microrobot for Targeted Drug Delivery by Affixing to a Microtissue. *Advanced Healthcare Materials*, **2020**, 9, e1901697	10.1	26
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326	Single-camera focus-based localization of intraocular devices. *IEEE Transactions on Biomedical Engineering*, **2010**, 57, 2064-74	5	26
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