

# Bradley J Nelson

## List of Publications by Year in descending order

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557  
papers

32,761  
citations

3721

89  
h-index

5965

160  
g-index

580  
all docs

580  
docs citations

580  
times ranked

18514  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Dynamic Modeling of Magnetic Helical Microrobots. IEEE Robotics and Automation Letters, 2022, 7, 1682-1688.  | 3.3  | 29        |
| 2  | A Survey on Swarm Microrobotics. IEEE Transactions on Robotics, 2022, 38, 1531-1551.   | 7.3  | 45        |
| 3  | Thermoset Shape Memory Polymer Variable Stiffness 4D Robotic Catheters. Advanced Science, 2022, 9, e2103277.   | 5.6  | 42        |
| 4  | Magnetic helical micro-/nanomachines: Recent progress and perspective. Matter, 2022, 5, 77-109.  | 5.0  | 52        |
| 5  | Magnetolectric reduction of chromium(VI) to chromium(III). Applied Materials Today, 2022, 26, 101339.  | 2.3  | 6         |
| 6  | Magnetic field interpolation for remote magnetic navigation in minimally invasive surgery. , 2022, , 397-424.  |      | 0         |
| 7  | Increasingly Intelligent Micromachines. Annual Review of Control, Robotics, and Autonomous Systems, 2022, 5, 279-310.  | 7.5  | 35        |
| 8  | Magnetically Assisted Robotic Fetal Surgery for the Treatment of Spina Bifida. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 85-93.                              | 2.1  | 11        |
| 9  | A Variable Stiffness Magnetic Catheter Made of a Conductive Phase-Change Polymer for Minimally Invasive Surgery. Advanced Functional Materials, 2022, 32, .                    | 7.8  | 40        |
| 10 | An Electromagnetically Controllable Microrobotic Interventional System for Targeted, Real-Time Cardiovascular Intervention. Advanced Healthcare Materials, 2022, 11, e2102529. | 3.9  | 20        |
| 11 | Magnetolectric Effect in Hydrogen Harvesting: Magnetic Field as a Trigger of Catalytic Reactions. Advanced Materials, 2022, 34, e2110612.                                      | 11.1 | 18        |
| 12 | Biotemplating of Metal-Organic Framework Nanocrystals for Applications in Small-Scale Robotics. Advanced Functional Materials, 2022, 32, .                                     | 7.8  | 21        |
| 13 | Magnetic concentric tube robots: Introduction and analysis. International Journal of Robotics Research, 2022, 41, 418-440.   | 5.8  | 7         |
| 14 | Magnetically Actuated Medical Robots: An in vivo Perspective. Proceedings of the IEEE, 2022, 110, 1028-1037.   | 16.4 | 36        |
| 15 | A Biodegradable Magnetic Microrobot Based on Gelatin Methacrylate for Precise Delivery of Stem Cells with Mass Production Capability. Small, 2022, 18, .                       | 5.2  | 29        |
| 16 | Using Magnetic Fields to Navigate and Simultaneously Localize Catheters in Endoluminal Environments. IEEE Robotics and Automation Letters, 2022, 7, 7217-7223.                 | 3.3  | 16        |
| 17 | A Simulation Framework for Magnetic Continuum Robots. IEEE Robotics and Automation Letters, 2022, 7, 8370-8376.  | 3.3  | 14        |
| 18 | Magnetic Control of a Flexible Needle in Neurosurgery. IEEE Transactions on Biomedical Engineering, 2021, 68, 616-627.   | 2.5  | 46        |

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|----|--|------|-----------|
| 19 | Magnetically Active Cardiac Patches as an Untethered, Non-Blood Contacting Ventricular Assist Device. <i>Advanced Science</i> , 2021, 8, 2000726.                                  | 5.6  | 10        |
| 20 | Trends in Micro-/Nanorobotics: Materials Development, Actuation, Localization, and System Integration for Biomedical Applications. <i>Advanced Materials</i> , 2021, 33, e2002047. | 11.1 | 256       |
| 21 | Acoustically Mediated Controlled Drug Release and Targeted Therapy with Degradable 3D Porous Magnetic Microrobots. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001096.      | 3.9  | 59        |
| 22 | A Magnetically Navigated Microcannula for Subretinal Injections. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 119-129.   | 2.5  | 44        |
| 23 | Bioinspired acousto-magnetic microswarm robots with upstream motility. <i>Nature Machine Intelligence</i> , 2021, 3, 116-124.  | 8.3  | 95        |
| 24 | Micro-/Nanorobots. , 2021, , 1-11.   |      | 0         |
| 25 | Ultrasound Doppler-guided real-time navigation of a magnetic microswarm for active endovascular delivery. <i>Science Advances</i> , 2021, 7, .                                     | 4.7  | 186       |
| 26 | Helical Klinotactic Locomotion of Two-Link Nanoswimmers with Dual-Function Drug-Loaded Soft Polysaccharide Hinges. <i>Advanced Science</i> , 2021, 8, 2004458.                     | 5.6  | 16        |
| 27 | Progress in robotics for combating infectious diseases. <i>Science Robotics</i> , 2021, 6, .   | 9.9  | 67        |
| 28 | Tiny robots make big advances. <i>Science Robotics</i> , 2021, 6, .  | 9.9  | 12        |
| 29 | An Intelligent In-Shoe System for Gait Monitoring and Analysis with Optimized Sampling and Real-Time Visualization Capabilities. <i>Sensors</i> , 2021, 21, 2869.                  | 2.1  | 13        |
| 30 | 3D mechanical characterization of single cells and small organisms using acoustic manipulation and force microscopy. <i>Nature Communications</i> , 2021, 12, 2583.                | 5.8  | 50        |
| 31 | Modelling the Impact of Robotics on Infectious Spread Among Healthcare Workers. <i>Frontiers in Robotics and AI</i> , 2021, 8, 652685.   | 2.0  | 3         |
| 32 | Reduced Etch Lag and High Aspect Ratios by Deep Reactive Ion Etching (DRIE). <i>Micromachines</i> , 2021, 12, 542.   | 1.4  | 25        |
| 33 | Nano-3D-Printed Photochromic Micro-Objects. <i>Small</i> , 2021, 17, e2101337.   | 5.2  | 20        |
| 34 | Photochromic 3D Micro-Objects: Nano-3D-Printed Photochromic Micro-Objects (Small 26/2021). <i>Small</i> , 2021, 17, 2170132.   | 5.2  | 0         |
| 35 | Constrained-Spherical Deconvolution Tractography in the Evaluation of the Corticospinal Tract in Glioma Surgery. <i>Frontiers in Surgery</i> , 2021, 8, 646465.                    | 0.6  | 6         |
| 36 | A Submillimeter Continuous Variable Stiffness Catheter for Compliance Control. <i>Advanced Science</i> , 2021, 8, e2101290.  | 5.6  | 45        |

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|----|---|------|-----------|
| 37 | Embedded Microbubbles for Acoustic Manipulation of Single Cells and Microfluidic Applications. <i>Analytical Chemistry</i> , 2021, 93, 9760-9770.                                   | 3.2  | 24        |
| 38 | Modeling Electromagnetic Navigation Systems. <i>IEEE Transactions on Robotics</i> , 2021, 37, 1009-1021.  | 7.3  | 23        |
| 39 | Mechanical factors contributing to the Venus flytrap's rate-dependent response to stimuli. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 2287-2297.                | 1.4  | 3         |
| 40 | A Submillimeter Continuous Variable Stiffness Catheter for Compliance Control ( <i>Adv. Sci.</i> 18/2021). <i>Advanced Science</i> , 2021, 8, 2170118.                              | 5.6  | 6         |
| 41 | Biodegradable Small-Scale Swimmers for Biomedical Applications. <i>Advanced Materials</i> , 2021, 33, e2102049.   | 11.1 | 44        |
| 42 | Kinematics Governing Mechanotransduction in the Sensory Hair of the Venus flytrap. <i>International Journal of Molecular Sciences</i> , 2021, 22, 280.                              | 1.8  | 9         |
| 43 | Magnetically Guided Catheters, Micro- and Nanorobots for Spinal Cord Stimulation. <i>Frontiers in Neurorobotics</i> , 2021, 15, 749024.   | 1.6  | 3         |
| 44 | Growth and Labelling of Cell Wall Components of the Brown Alga <i>Ectocarpus</i> in Microfluidic Chips. <i>Frontiers in Marine Science</i> , 2021, 8, .                             | 1.2  | 1         |
| 45 | A decade retrospective of medical robotics research from 2010 to 2020. <i>Science Robotics</i> , 2021, 6, eabi8017.   | 9.9  | 158       |
| 46 | Integrated Pedal System for Data Driven Rehabilitation. <i>Sensors</i> , 2021, 21, 8115.  | 2.1  | 0         |
| 47 | Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900086.   | 3.3  | 92        |
| 48 | Polymeric microellipsoids with programmed magnetic anisotropy for controlled rotation using low ( $\sim 10$ mT) magnetic fields. <i>Applied Materials Today</i> , 2020, 18, 100511. | 2.3  | 6         |
| 49 | Modeling Electromagnetic Navigation Systems for Medical Applications using Random Forests and Artificial Neural Networks. , 2020, , .   |      | 10        |
| 50 | Reconfigurable Magnetic Microswarm for Thrombolysis under Ultrasound Imaging. , 2020, , .   |      | 20        |
| 51 | The rise of robots in surgical environments during COVID-19. <i>Nature Machine Intelligence</i> , 2020, 2, 566-572.   | 8.3  | 108       |
| 52 | Metal-Organic Frameworks in Motion. <i>Chemical Reviews</i> , 2020, 120, 11175-11193.   | 23.0 | 75        |
| 53 | Laser thermal therapy for epilepsy surgery: current standing and future perspectives. <i>International Journal of Hyperthermia</i> , 2020, 37, 77-83.                               | 1.1  | 12        |
| 54 | Force microscopy of the <i>Caenorhabditis elegans</i> embryonic eggshell. <i>Microsystems and Nanoengineering</i> , 2020, 6, 29.  | 3.4  | 14        |

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|----|--|------|-----------|
| 55 | Mechanically interlocked 3D multi-material micromachines. <i>Nature Communications</i> , 2020, 11, 5957.   | 5.8  | 48        |
| 56 | CANDYBOTS: A New Generation of 3D-Printed Sugar-Based Transient Small-Scale Robots. <i>Advanced Materials</i> , 2020, 32, e2005652.  | 11.1 | 26        |
| 57 | Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , 2020, 9, e2001031.   | 3.9  | 64        |
| 58 | Enhanced catalytic degradation of organic pollutants by multi-stimuli activated multiferroic nanoarchitectures. <i>Nano Research</i> , 2020, 13, 2183-2191.                                      | 5.8  | 38        |
| 59 | Magnetic cilia carpets with programmable metachronal waves. <i>Nature Communications</i> , 2020, 11, 2637.   | 5.8  | 172       |
| 60 | REALITI: A Robotic Endoscope Automated via Laryngeal Imaging for Tracheal Intubation. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 157-164.                               | 2.1  | 19        |
| 61 | Combating COVID-19—The role of robotics in managing public health and infectious diseases. <i>Science Robotics</i> , 2020, 5, .  | 9.9  | 393       |
| 62 | A Needle-Type Microrobot for Targeted Drug Delivery by Affixing to a Microtissue. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901697.  | 3.9  | 54        |
| 63 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. <i>PLoS Biology</i> , 2020, 18, e3000740.   | 2.6  | 17        |
| 64 | 3D-Printed Soft Magnetolectric Microswimmers for Delivery and Differentiation of Neuron-Like Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1910323.                                    | 7.8  | 157       |
| 65 | Magnetically and chemically propelled nanowire-based swimmers. , 2020, , 777-799.  |      | 7         |
| 66 | Quantification of Mechanical Forces and Physiological Processes Involved in Pollen Tube Growth Using Microfluidics and Microrobotics. <i>Methods in Molecular Biology</i> , 2020, 2160, 275-292. | 0.4  | 4         |
| 67 | Simultaneous measurement of turgor pressure and cell wall elasticity in growing pollen tubes. <i>Methods in Cell Biology</i> , 2020, 160, 297-310.   | 0.5  | 2         |
| 68 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.   |      | 0         |
| 69 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.   |      | 0         |
| 70 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.   |      | 0         |
| 71 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.   |      | 0         |
| 72 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.   |      | 0         |

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|----|---|------|-----------|
| 73 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.  |      | 0         |
| 74 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.  |      | 0         |
| 75 | A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.  |      | 0         |
| 76 | 3D Printing of Thermoplasticâ€B Bonded Softâ€• and Hardâ€• Magnetic Composites: Magnetically Tuneable Architectures and Functional Devices. Advanced Intelligent Systems, 2019, 1, 1900069. | 3.3  | 16        |
| 77 | Mineralizationâ€• Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. Angewandte Chemie, 2019, 131, 13684-13689.  | 1.6  | 5         |
| 78 | Highâ€• Resolution SPECT Imaging of Stimuliâ€• Responsive Soft Microrobots. Small, 2019, 15, e1900709.  | 5.2  | 62        |
| 79 | Mineralizationâ€• Inspired Synthesis of Magnetic Zeolitic Imidazole Framework Composites. Angewandte Chemie - International Edition, 2019, 58, 13550-13555.                                 | 7.2  | 27        |
| 80 | Magnetolectric Catalysis: Magnetoelectrically Driven Catalytic Degradation of Organics (Adv.) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 46  | 11.1 | 2         |
| 81 | Indirect 3D and 4D Printing of Soft Robotic Microstructures. Advanced Materials Technologies, 2019, 4, 1900332.   | 3.0  | 78        |
| 82 | Nanomagnetic encoding of shape-morphing micromachines. Nature, 2019, 575, 164-168.  | 13.7 | 307       |
| 83 | Magnetic quadrupole assemblies with arbitrary shapes and magnetizations. Science Robotics, 2019, 4, .   | 9.9  | 49        |
| 84 | Motile Piezoelectric Nanoels for Targeted Drug Delivery. Advanced Functional Materials, 2019, 29, 1808135.  | 7.8  | 66        |
| 85 | Underpinning transport phenomena for the patterning of biomolecules. Chemical Society Reviews, 2019, 48, 1236-1254.   | 18.7 | 29        |
| 86 | Magnetically actuated microrobots as a platform for stem cell transplantation. Science Robotics, 2019, 4, .   | 9.9  | 247       |
| 87 | Microrobotics: 3D Fabrication of Fully Iron Magnetic Microrobots (Small 16/2019). Small, 2019, 15, 1970086.   | 5.2  | 2         |
| 88 | MOFBOTS: Metalâ€• Organicâ€• Frameworkâ€• Based Biomedical Microrobots. Advanced Materials, 2019, 31, e1901592.   | 11.1 | 139       |
| 89 | Magnetoelectrically Driven Catalytic Degradation of Organics. Advanced Materials, 2019, 31, e1901378.   | 11.1 | 74        |
| 90 | Magnetically navigable 3D printed multifunctional microdevices for environmental applications. Additive Manufacturing, 2019, 28, 127-135.   | 1.7  | 24        |

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|-----|---|------|-----------|
| 91  | Synthetic and living micropropellers for convection-enhanced nanoparticle transport. <i>Science Advances</i> , 2019, 5, eaav4803.   | 4.7  | 109       |
| 92  | Magnetically driven piezoelectric soft microswimmers for neuron-like cell delivery and neuronal differentiation. <i>Materials Horizons</i> , 2019, 6, 1512-1516.  | 6.4  | 88        |
| 93  | 3D Fabrication of Fully Iron Magnetic Microrobots. <i>Small</i> , 2019, 15, e1805006.   | 5.2  | 79        |
| 94  | 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> , 2019, 3, 1970006.   | 4.6  | 0         |
| 95  | 3D path planning for flexible needle steering in neurosurgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019, 15, e1998.  | 1.2  | 30        |
| 96  | 3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles. <i>Small Methods</i> , 2019, 3, 1800527.  | 4.6  | 33        |
| 97  | On-the-fly catalytic degradation of organic pollutants using magneto-photoresponsive bacteria-templated microcleaners. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24847-24856.                                    | 5.2  | 45        |
| 98  | A Magnetically Steered Endolaser Probe for Automated Panretinal Photocoagulation. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, xvii-xxiii.  | 3.3  | 18        |
| 99  | Imaging Technologies for Biomedical Micro- and Nanoswimmers. <i>Advanced Materials Technologies</i> , 2019, 4, 1800575.   | 3.0  | 83        |
| 100 | Programmable Locomotion Mechanisms of Nanowires with Semihard Magnetic Properties Near a Surface Boundary. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3214-3223.   | 4.0  | 23        |
| 101 | Matryoshka-Inspired Micro-Origami Capsules to Enhance Loading, Encapsulation, and Transport of Drugs. <i>Soft Robotics</i> , 2019, 6, 150-159.  | 4.6  | 25        |
| 102 | Ten robotics technologies of the year. <i>Science Robotics</i> , 2019, 4, .   | 9.9  | 19        |
| 103 | Adaptive locomotion of artificial microswimmers. <i>Science Advances</i> , 2019, 5, eaau1532.   | 4.7  | 203       |
| 104 | A Microrobotic System for Simultaneous Measurement of Turgor Pressure and Cell-Wall Elasticity of Individual Growing Plant Cells. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 641-646.                         | 3.3  | 7         |
| 105 | A Magnetically Controlled Soft Microrobot Steering a Guidewire in a Three-Dimensional Phantom Vascular Network. <i>Soft Robotics</i> , 2019, 6, 54-68.  | 4.6  | 183       |
| 106 | A Capsule-Type Microrobot with Pick-and-Drop Motion for Targeted Drug and Cell Delivery. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700985.  | 3.9  | 77        |
| 107 | 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> , 2018, 30, 1870070. | 11.1 | 3         |
| 108 | Design and Evaluation of a Steerable Magnetic Sheath for Cardiac Ablations. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2123-2128.   | 3.3  | 34        |

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|-----|--|------|-----------|
| 109 | Biocompatibility characteristics of the metal organic framework ZIF-8 for therapeutical applications. Applied Materials Today, 2018, 11, 13-21.                                  | 2.3  | 193       |
| 110 | Stereo Holographic Diffraction Based Tracking of Microrobots. IEEE Robotics and Automation Letters, 2018, 3, 567-572.  | 3.3  | 1         |
| 111 | The grand challenges of Science Robotics. Science Robotics, 2018, 3, .   | 9.9  | 787       |
| 112 | Small-Scale Machines Driven by External Power Sources. Advanced Materials, 2018, 30, e1705061.   | 11.1 | 186       |
| 113 | A Robotic Diathermy System for Automated Capsulotomy. Journal of Medical Robotics Research, 2018, 03, 1850001.   | 1.0  | 6         |
| 114 | Estimation-Based Control of a Magnetic Endoscope without Device Localization. Journal of Medical Robotics Research, 2018, 03, 1850002.   | 1.0  | 36        |
| 115 | Mobile Magnetic Nanocatalysts for Bioorthogonal Targeted Cancer Therapy. Advanced Functional Materials, 2018, 28, 1705920.   | 7.8  | 92        |
| 116 | Near-Infrared Light-Sensitive Polyvinyl Alcohol Hydrogel Photoresist for Spatiotemporal Control of Cell-Instructive 3D Microenvironments. Advanced Materials, 2018, 30, 1705564. | 11.1 | 87        |
| 117 | Recent Advances in Wearable Transdermal Delivery Systems. Advanced Materials, 2018, 30, 1704530.   | 11.1 | 151       |
| 118 | Soft Micro- and Nanorobotics. Annual Review of Control, Robotics, and Autonomous Systems, 2018, 1, 53-75.  | 7.5  | 145       |
| 119 | Fabrication and Locomotion of Flexible Nanoswimmers. , 2018, , .   |      | 2         |
| 120 | 3D Printed Enzymatically Biodegradable Soft Helical Microswimmers. Advanced Functional Materials, 2018, 28, 1804107.   | 7.8  | 222       |
| 121 | Hard-magnetic cell microscaffolds from electroless coated 3D printed architectures. Materials Horizons, 2018, 5, 699-707.  | 6.4  | 36        |
| 122 | Surface-Chemistry-Mediated Control of Individual Magnetic Helical Microswimmers in a Swarm. ACS Nano, 2018, 12, 6210-6217.   | 7.3  | 97        |
| 123 | Template-Assisted Electroforming of Fully Semi-Hard-Magnetic Helical Microactuators. Advanced Engineering Materials, 2018, 20, 1800179.  | 1.6  | 19        |
| 124 | New materials for next-generation robots. Science Robotics, 2018, 3, .   | 9.9  | 14        |
| 125 | 4D printing and robotics. Science Robotics, 2018, 3, .   | 9.9  | 66        |
| 126 | Chiral anisotropic magnetoresistance of ferromagnetic helices. Applied Physics Letters, 2018, 112, .   | 1.5  | 16        |



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|-----|---|-----|-----------|
| 127 | Investigation of Magnetotaxis of Reconfigurable Micro-Origami Swimmers with Competitive and Cooperative Anisotropy. <i>Advanced Functional Materials</i> , 2018, 28, 1802110.   | 7.8 | 40        |
| 128 | Magnetic imaging of a single ferromagnetic nanowire using diamond atomic sensors. <i>Nanotechnology</i> , 2018, 29, 405502.   | 1.3 | 8         |
| 129 | Bioinspired navigation in shape morphing micromachines for autonomous targeted drug delivery. , 2018, , .   |     | 2         |
| 130 | Kinematic Analysis of Magnetic Continuum Robots Using Continuation Method and Bifurcation Analysis. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 3646-3653.   | 3.3 | 22        |
| 131 | Controlled Propulsion of Two-Dimensional Microswimmers in a Precessing Magnetic Field. <i>Small</i> , 2018, 14, e1800722.   | 5.2 | 42        |
| 132 | Piezoelectrically Enhanced Photocatalysis with BiFeO <sub>3</sub> Nanostructures for Efficient Water Remediation. <i>IScience</i> , 2018, 4, 236-246.   | 1.9 | 232       |
| 133 | Feeling the force: how pollen tubes deal with obstacles. <i>New Phytologist</i> , 2018, 220, 187-195.   | 3.5 | 24        |
| 134 | Real-Time Holographic Tracking and Control of Microrobots. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 143-148.  | 3.3 | 15        |
| 135 | Protective coatings for intraocular wirelessly controlled microrobots for implantation: Corrosion, cell culture, and <i>in vivo</i> animal tests. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 836-845. | 1.6 | 32        |
| 136 | Optimization of Tail Geometry for the Propulsion of Soft Microrobots. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 727-732.   | 3.3 | 31        |
| 137 | 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> , 2017, 17, 671-680.  | 3.1 | 16        |
| 138 | Magnetostriction in electroplated CoFe alloys. <i>Electrochemistry Communications</i> , 2017, 76, 15-19.  | 2.3 | 13        |
| 139 | Model-Based Calibration for Magnetic Manipulation. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.   | 1.2 | 50        |
| 140 | Magnetic control of continuum devices. <i>International Journal of Robotics Research</i> , 2017, 36, 68-85.   | 5.8 | 125       |
| 141 | Magnetolectrics: Hybrid Magnetolectric Nanowires for Nanorobotic Applications: Fabrication, Magnetolectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0.78#B14 rgB/Overlo                  |     |           |
| 142 | Nanomechanics on FGF-2 and Heparin Reveal Slip Bond Characteristics with pH Dependency. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1000-1007.   | 2.6 | 6         |
| 143 | Magnetically guided capsule endoscopy. <i>Medical Physics</i> , 2017, 44, e91-e111.   | 1.6 | 78        |
| 144 | Spatiotemporally controlled electrodeposition of magnetically driven micromachines based on the inverse opal architecture. <i>Electrochemistry Communications</i> , 2017, 81, 97-101.   | 2.3 | 13        |

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|-----|---|------|-----------|
| 145 | Recent developments in magnetically driven micro- and nanorobots. <i>Applied Materials Today</i> , 2017, 9, 37-48.  | 2.3  | 312       |
| 146 | Multiwavelength Light-Responsive Au/B-TiO <sub>2</sub> Janus Micromotors. <i>ACS Nano</i> , 2017, 11, 6146-6154.  | 7.3  | 155       |
| 147 | Artificial Acousto-Magnetic Soft Microswimmers. <i>Advanced Materials Technologies</i> , 2017, 2, 1700050.  | 3.0  | 74        |
| 148 | Hybrid Magnetoelectric Nanowires for Nanorobotic Applications: Fabrication, Magnetoelectric Coupling, and Magnetically Assisted In Vitro Targeted Drug Delivery. <i>Advanced Materials</i> , 2017, 29, 1605458.                 | 11.1 | 193       |
| 149 | Robotically controlled microprey to resolve initial attack modes preceding phagocytosis. <i>Science Robotics</i> , 2017, 2, .   | 9.9  | 49        |
| 150 | New materials for next-generation robots. <i>Science Robotics</i> , 2017, 2, .  | 9.9  | 17        |
| 151 | Neutrophil-inspired propulsion in a combined acoustic and magnetic field. <i>Nature Communications</i> , 2017, 8, 770.  | 5.8  | 175       |
| 152 | Colloidal polycrystalline monolayers under oscillatory shear. <i>Physical Review E</i> , 2017, 95, 012610.  | 0.8  | 35        |
| 153 | Magnetic Actuation: Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation ( <i>Adv. Funct. Mater.</i> 32/2017). <i>Advanced Functional Materials</i> , 2017, 27, . | 7.8  | 1         |
| 154 | Magnetically powered microrobots: a medical revolution underway?. <i>European Journal of Cardio-thoracic Surgery</i> , 2017, 51, ezw432.  | 0.6  | 20        |
| 155 | Voltage-Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energy-Efficient Magnetic Actuation. <i>Advanced Functional Materials</i> , 2017, 27, 1701904.   | 7.8  | 41        |
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