David McGloin

List of Publications by Year in descending order

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151 papers 6,259 citations

34 h-index 78 g-index

155 all docs

155
docs citations

155 times ranked 4648 citing authors

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 3-D Printed All-Dielectric Dual-Band Broadband Reflectarray With a Large Frequency Ratio. IEEE Transactions on Antennas and Propagation, 2021, 69, 7035-7040. | 5.1 | 27 |
| 2 | Additively Manufactured Millimeter-Wave Dual-Band Single-Polarization Shared Aperture Fresnel Zone Plate Metalens Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 6261-6272. | 5.1 | 32 |
| 3 | Effects of spatial confinement on migratory properties of Dictyostelium discoideum cells. Communicative and Integrative Biology, 2021, 14, 5-14. | 1.4 | 5 |
| 4 | Sub-Terahertz 3-D Printed All-Dielectric Low-Cost Low-Profile Lens-Integrated Polarization Beam Splitter. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 433-442. | 3.1 | 5 |
| 5 | Self-evolving ghost imaging. Optica, 2021, 8, 1340. | 9.3 | 15 |
| 6 | Single-Pixel Diffuser Camera. IEEE Photonics Journal, 2021, 13, 1-5. | 2.0 | 2 |
| 7 | Examining the Effect of Kindlin-3 Binding Site Mutation on LFA-1-ICAM-1 Bonds by Force Measuring Optical Tweezers. Frontiers in Immunology, 2021, 12, 792813. | 4.8 | O |
| 8 | Numerically Enhanced Stimulated Emission Depletion Microscopy with Adaptive Optics for Deep-Tissue Super-Resolved Imaging. ACS Nano, 2020, 14, 394-405. | 14.6 | 15 |
| 9 | Analysis of barotactic and chemotactic guidance cues on directional decision-making of <i>Dictyostelium discoideum</i> cells in confined environments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25553-25559. | 7.1 | 12 |
| 10 | Measurement of junctional tension in epithelial cells at the onset of primitive streak formation in the chick embryo via non-destructive optical manipulation. Development (Cambridge), 2020, 147, . | 2.5 | 10 |
| 11 | Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. IEEE Photonics Journal, 2020, 12, 1-12. | 2.0 | 12 |
| 12 | 3-D Printed Planar Dielectric Linear-to-Circular Polarization Conversion and Beam-Shaping Lenses Using Coding Polarizer. IEEE Transactions on Antennas and Propagation, 2020, 68, 4332-4343. | 5.1 | 27 |
| 13 | 0.32 THz dual circularly polarized reflectarray. , 2020, , . | | O |
| 14 | Self-optimizing ghost imaging with a genetic algorithm. , 2020, , . | | 0 |
| 15 | A Flexible Hair-Like Laser Induced Graphitic Sensor for Low Flow Rate Sensing Applications. , 2020, , . | | O |
| 16 | High-Throughput, Time-Resolved Mechanical Phenotyping of Prostate Cancer Cells. Scientific Reports, 2019, 9, 5742. | 3.3 | 13 |
| 17 | Full volume super-resolution imaging of thick mitotic spindle using 3D AO STED microscope. Biomedical Optics Express, 2019, 10, 1999. | 2.9 | 24 |
| 18 | Quasi-noise-free stimulated emission depletion microscopy imaging of thick samples using adaptive optics and block-matching 3D filtering. , 2019, , . | | 0 |

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| 19 | Microscale characterization of prostate biopsies tissues using optical coherence elastography and second harmonic generation imaging. Laboratory Investigation, 2018, 98, 380-390. | 3.7 | 18 |
| 20 | Raman spectroscopy for accurately characterizing biomolecular changes in androgenâ€independent prostate cancer cells. Journal of Biophotonics, 2018, 11, e201700166. | 2.3 | 20 |
| 21 | Quantitative assessment of the mechanical properties of prostate tissue with optical coherence elastography., 2018,,. | | 0 |
| 22 | Droplet lasers: a review of current progress. Reports on Progress in Physics, 2017, 80, 054402. | 20.1 | 20 |
| 23 | Intermediate phases during solid to liquid transitions in long-chain n-alkanes. Physical Chemistry Chemical Physics, 2017, 19, 13941-13950. | 2.8 | 27 |
| 24 | Microfluidics-based, time-resolved mechanical phenotyping of cells using high-speed imaging. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 25 | Second harmonic generation (SHG) imaging of cancer heterogeneity in ultrasound guided biopsies of prostate in men suspected with prostate cancer. Journal of Biophotonics, 2017, 10, 911-918. | 2.3 | 31 |
| 26 | Optical redox ratio and endogenous porphyrins in the detection of urinary bladder cancer: A patient biopsy analysis. Journal of Biophotonics, 2017, 10, 1062-1073. | 2.3 | 21 |
| 27 | High-throughput, imaging based mechanical phenotyping of prostate cancer cells. , 2017, , . | | 0 |
| 28 | Transport of intensity microscopy for distinguishing single and bundled microtubules. , 2017, , . | | 1 |
| 29 | Colloidal Interactions with Optical Fields: Optical Tweezers. , 2016, , 111-130. | | 0 |
| 30 | Changes in autofluorescence based organoid model of muscle invasive urinary bladder cancer. Biomedical Optics Express, 2016, 7, 1193. | 2.9 | 14 |
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| 32 | Comparison of Raman and IR spectroscopy for quantitative analysis of gasoline/ethanol blends. Fuel, 2016, 166, 488-494. | 6.4 | 24 |
| 33 | Bubble wrap for optical trapping and cell culturing. Biomedical Optics Express, 2015, 6, 3757. | 2.9 | 3 |
| 34 | Hydrodynamic stretching for prostate cancer detection. , 2015, , . | | 1 |
| 35 | Probing the Evaporation Dynamics of Ethanol/Gasoline Biofuel Blends Using Single Droplet Manipulation Techniques. Journal of Physical Chemistry A, 2015, 119, 12797-12804. | 2.5 | 19 |
| 36 | Low-cost optical manipulation using hanging droplets of PDMS. RSC Advances, 2015, 5, 55561-55565. | 3.6 | 17 |

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| 37 | Cellular lasers. Nature Photonics, 2015, 9, 559-560. | 31.4 | 7 |
| 38 | Characterization of gasoline/ethanol blends by infrared and excess infrared spectroscopy. Fuel, 2015, 141, 136-142. | 6.4 | 62 |
| 39 | Droplet Lasers. Optics and Photonics News, 2015, 26, 36. | 0.5 | 4 |
| 40 | Studying biofuel aerosol evaporation rates with single particle manipulation. , 2014, , . | | 0 |
| 41 | Characterizing conical refraction optical tweezers. Optics Letters, 2014, 39, 6691. | 3.3 | 14 |
| 42 | Droplet resonator based optofluidic microlasers. , 2014, , . | | 2 |
| 43 | Optical trapping for space mirrors. Nature, 2014, 506, 437-438. | 27.8 | 0 |
| 44 | In vitro and in vivo biolasing of fluorescent proteins suspended in liquid microdroplet cavities. Lab on A Chip, 2014, 14, 3093-3100. | 6.0 | 91 |
| 45 | Biological lasing in liquid microdroplets deposited on a superhydrophobic surface. , 2014, , . | | 0 |
| 46 | Resolving Stable Axial Trapping Points of Nanowires in an Optical Tweezers Using Photoluminescence Mapping. Nano Letters, 2013, 13, 1185-1191. | 9.1 | 36 |
| 47 | HoloHands: games console interface for controlling holographic optical manipulation. Journal of Optics (United Kingdom), 2013, 15, 035708. | 2.2 | 14 |
| 48 | Axial Localization Improvements when Trapping Aerosol Droplets using an Annular Beam., 2013,,. | | 0 |
| 49 | Introduction: Optical trapping and applications feature issue. Biomedical Optics Express, 2013, 4, 2710. | 2.9 | 1 |
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| 51 | Dye lasing in optically manipulated liquid aerosols. , 2013, , . | | 1 |
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| 53 | Dye lasing in optically manipulated liquid aerosols. Optics Letters, 2013, 38, 1669. | 3.3 | 16 |
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| 55 | Directed jetting from collapsing cavities exposed to focused ultrasound. Applied Physics Letters, 2012, 100, 024104. | 3.3 | 17 |
| 56 | HoloHands: games console interface for controlling holographic optical manipulation. Proceedings of SPIE, 2012 , , . | 0.8 | 1 |
| 57 | Analysis of optical trap mediated aerosol coalescence. , 2012, , . | | 0 |
| 58 | Flexible particle manipulation techniques with conical refraction-based optical tweezers., 2012,,. | | 8 |
| 59 | Mapping optical process in semiconductor nanowires using dynamic optical tweezers. , 2012, , . | | 0 |
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| 61 | Single aerosol trapping with an annular beam: improved particle localisation. Physical Chemistry Chemical Physics, 2012, 14, 15826. | 2.8 | 13 |
| 62 | Observation of the Binary Coalescence and Equilibration of Micrometer-Sized Droplets of Aqueous Aerosol in a Single-Beam Gradient-Force Optical Trap. Journal of Physical Chemistry A, 2012, 116, 8873-8884. | 2.5 | 21 |
| 63 | Combining rails and anchors with laser forcing for selective manipulation within 2D droplet arrays. Lab on A Chip, 2011, 11, 4228. | 6.0 | 92 |
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| 65 | On the accuracy of framing-rate measurements in ultra-high speed rotating mirror cameras. Optics Express, 2011, 19, 16432. | 3.4 | 7 |
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| 77 | Radius measurements of optically trapped aerosols through Brownian motion. New Journal of Physics, 2009, 11, 063022. | 2.9 | 17 |
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| 79 | Thermo-optical resonance locking of an optically trapped salt-water microdroplet. New Journal of Physics, 2009, 11, 103041. | 2.9 | 27 |
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| 138 | Guiding a cold atomic beam along a co-propagating and oblique hollow light guide. Optics Communications, 2002, 214, 247-254. | 2.1 | 39 |
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| 142 | Polarization effects in electromagnetically induced transparency. Physical Review A, 2000, 62, . | 2.5 | 55 |
| 143 | Extended mode-hop-free tuning by use of a dual-cavity, pump-enhanced optical parametric oscillator. Optics Letters, 2000, 25, 341. | 3.3 | 34 |
| 144 | Simple theory of microwave induced transparency in atomic and molecular systems. Journal of Modern Optics, 2000, 47, 1887-1897. | 1.3 | 14 |

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| 146 | Transfer of orbital angular momentum from a stressed fiber-optic waveguide to a light beam. Applied Optics, 1998, 37, 469. | 2.1 | 106 |
| 147 | Optical tweezers with increased axial trapping efficiency. Journal of Modern Optics, 1998, 45, 1943-1949. | 1.3 | 113 |
| 148 | Prediction of inversionless gain in a mismatched Doppler-broadened medium. Physical Review A, 1998, 58, 2560-2566. | 2.5 | 17 |
| 149 | Radio frequency field manipulation of electromagnetically induced transparency. , 0, , . | | O |
| 150 | Methods for extending mode-hop-free tuning using a dual-cavity, pump-enhanced optical parametric oscillator. , 0, , . | | 0 |
| 151 | Advanced micromanipulation using bessel beams. , 0, , . | | 0 |