

Huikai Xie

List of Publications by Year in descending order

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314
papers

5,910
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docs citations

317
times ranked

3547
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Review of Phased Array Steering for Narrow-Band Electrooptical Systems. Proceedings of the IEEE, 2009, 97, 1078-1096. | 16.4 | 311 |
| 2 | Endoscopic optical coherence tomography based on a microelectromechanical mirror. Optics Letters, 2001, 26, 1966. | 1.7 | 279 |
| 3 | MEMS Mirrors for LiDAR: A Review. Micromachines, 2020, 11, 456. | 1.4 | 209 |
| 4 | Nonlinear optical endoscopy based on a double-clad photonic crystal fiber and a MEMS mirror. Optics Express, 2006, 14, 1027. | 1.7 | 154 |
| 5 | 3D In Vivo optical coherence tomography based on a low-voltage, large-scan-range 2D MEMS mirror. Optics Express, 2010, 18, 12065. | 1.7 | 138 |
| 6 | Post-CMOS processing for high-aspect-ratio integrated silicon microstructures. Journal of Microelectromechanical Systems, 2002, 11, 93-101. | 1.7 | 132 |
| 7 | A large vertical displacement electrothermal bimorph microactuator with very small lateral shift. Sensors and Actuators A: Physical, 2008, 145-146, 371-379. | 2.0 | 130 |
| 8 | An Electrothermal Tip-tilt Piston Micromirror Based on Folded Dual S-Shaped Bimorphs. Journal of Microelectromechanical Systems, 2009, 18, 1004-1015. | 1.7 | 126 |
| 9 | A Two-Axis Electrothermal Micromirror for Endoscopic Optical Coherence Tomography. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 636-642. | 1.9 | 121 |
| 10 | A Monolithic CMOS-MEMS 3-Axis Accelerometer With a Low-Noise, Low-Power Dual-Chopper Amplifier. IEEE Sensors Journal, 2008, 8, 1511-1518. | 2.4 | 111 |
| 11 | A thermal bimorph micromirror with large bi-directional and vertical actuation. Sensors and Actuators A: Physical, 2005, 122, 9-15. | 2.0 | 95 |
| 12 | Evaluation of breast tumor margins in vivo with intraoperative photoacoustic imaging. Optics Express, 2012, 20, 8726. | 1.7 | 92 |
| 13 | Fabrication, characterization, and analysis of a DRIE CMOS-MEMS gyroscope. IEEE Sensors Journal, 2003, 3, 622-631. | 2.4 | 89 |
| 14 | A CMOS-MEMS mirror with curled-hinge comb drives. Journal of Microelectromechanical Systems, 2003, 12, 450-457. | 1.7 | 89 |
| 15 | Vertical comb-finger capacitive actuation and sensing for CMOS-MEMS. Sensors and Actuators A: Physical, 2002, 95, 212-221. | 2.0 | 84 |
| 16 | Refractive index measurement of acute rat brain tissue slices using optical coherence tomography. Optics Express, 2012, 20, 1084. | 1.7 | 84 |
| 17 | Endoscopic optical coherence tomographic imaging with a CMOS-MEMS micromirror. Sensors and Actuators A: Physical, 2003, 103, 237-241. | 2.0 | 83 |
| 18 | Integrated Microelectromechanical Gyroscopes. Journal of Aerospace Engineering, 2003, 16, 65-75. | 0.8 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Three-dimensional nonlinear optical endoscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 040501. | 1.4 | 72 |
| 20 | A piezoelectric unimorph actuator based tip-tilt-piston micromirror with high fill factor and small tilt and lateral shift. <i>Sensors and Actuators A: Physical</i> , 2011, 167, 495-501. | 2.0 | 70 |
| 21 | Endoscopic optical coherence tomography with a modified microelectromechanical systems mirror for detection of bladder cancers. <i>Applied Optics</i> , 2003, 42, 6422. | 2.1 | 69 |
| 22 | Process Development for CMOS-MEMS Sensors With Robust Electrically Isolated Bulk Silicon Microstructures. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1152-1161. | 1.7 | 69 |
| 23 | A Low-Power Low-Noise Dual-Chopper Amplifier for Capacitive CMOS-MEMS Accelerometers. <i>IEEE Sensors Journal</i> , 2011, 11, 925-933. | 2.4 | 66 |
| 24 | Ultracompact high-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2018, 43, 1615. | 1.7 | 64 |
| 25 | MEMS-based 3D confocal scanning microendoscope using MEMS scanners for both lateral and axial scan. <i>Sensors and Actuators A: Physical</i> , 2014, 215, 89-95. | 2.0 | 55 |
| 26 | A multi-degree-of-freedom micromirror utilizing inverted-series-connected bimorph actuators. <i>Journal of Optics</i> , 2006, 8, S352-S359. | 1.5 | 52 |
| 27 | Photoacoustic imaging based on MEMS mirror scanning. <i>Biomedical Optics Express</i> , 2010, 1, 1278. | 1.5 | 50 |
| 28 | Measurement of viscoelastic properties in multiple anatomical regions of acute rat brain tissue slices. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 29, 213-224. | 1.5 | 50 |
| 29 | An Electrothermomechanical Lumped Element Model of an Electrothermal Bimorph Actuator. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 213-225. | 1.7 | 49 |
| 30 | In vivo bladder imaging with microelectromechanical-systems-based endoscopic spectral domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2007, 12, 034009. | 1.4 | 47 |
| 31 | Miniature Endoscope for Multimodal Imaging. <i>ACS Photonics</i> , 2017, 4, 174-180. | 3.2 | 46 |
| 32 | Photoacoustic endomicroscopy based on a MEMS scanning mirror. <i>Optics Letters</i> , 2017, 42, 4615. | 1.7 | 45 |
| 33 | Endoscopic optical coherence tomography with new MEMS mirror. <i>Electronics Letters</i> , 2003, 39, 1535. | 0.5 | 43 |
| 34 | A Large Piston Displacement MEMS Mirror With Electrothermal Ladder Actuator Arrays for Ultra-Low Tilt Applications. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 39-49. | 1.7 | 43 |
| 35 | MEMS-Based Endoscopic Optical Coherence Tomography. <i>International Journal of Optics</i> , 2011, 2011, 1-12. | 0.6 | 42 |
| 36 | Handheld miniature probe integrating diffuse optical tomography with photoacoustic imaging through a MEMS scanning mirror. <i>Biomedical Optics Express</i> , 2013, 4, 427. | 1.5 | 41 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Real-time Lissajous imaging with a low-voltage 2-axis MEMS scanner based on electrothermal actuation. <i>Optics Express</i> , 2020, 28, 8512. | 1.7 | 40 |
| 38 | Miniature probe combining optical-resolution photoacoustic microscopy and optical coherence tomography for in vivomicrocirculation study. <i>Applied Optics</i> , 2013, 52, 1928. | 0.9 | 39 |
| 39 | Miniature probe integrating optical-resolution photoacoustic microscopy, optical coherence tomography, and ultrasound imaging: proof-of-concept. <i>Optics Letters</i> , 2015, 40, 2921. | 1.7 | 38 |
| 40 | An electrothermal microlens scanner with low-voltage large-vertical-displacement actuation. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1971-1973. | 1.3 | 37 |
| 41 | Endoscopic swept-source optical coherence tomography based on a two-axis microelectromechanical system mirror. <i>Journal of Biomedical Optics</i> , 2013, 18, 086005. | 1.4 | 37 |
| 42 | Wide-angle structured light with a scanning MEMS mirror in liquid. <i>Optics Express</i> , 2016, 24, 3479. | 1.7 | 37 |
| 43 | A 2.8-mm Imaging Probe Based On a High-Fill-Factor MEMS Mirror and Wire-Bonding-Free Packaging for Endoscopic Optical Coherence Tomography. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1291-1302. | 1.7 | 36 |
| 44 | A Fast, Large-Stroke Electrothermal MEMS Mirror Based on Cu/W Bimorph. <i>Micromachines</i> , 2015, 6, 1876-1889. | 1.4 | 36 |
| 45 | A lateral capacitive CMOS accelerometer with structural curl compensation. , 1999, , . | | 35 |
| 46 | A single-crystal silicon micromirror for large bi-directional 2D scanning applications. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 454-460. | 2.0 | 35 |
| 47 | Design of a hyperspectral nitrogen sensing system for orange leaves. <i>Computers and Electronics in Agriculture</i> , 2008, 63, 215-226. | 3.7 | 34 |
| 48 | A tipâ€“tiltâ€“piston micromirror with a double S-shaped unimorph piezoelectric actuator. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 121-128. | 2.0 | 34 |
| 49 | A Lateral-Axis Microelectromechanical Tuning-Fork Gyroscope With Decoupled Comb Drive Operating at Atmospheric Pressure. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 458-468. | 1.7 | 33 |
| 50 | A Surface-Mountable Microfabricated Power Inductor in Silicon for Ultracompact Power Supplies. <i>IEEE Transactions on Power Electronics</i> , 2011, 26, 1310-1315. | 5.4 | 33 |
| 51 | Wearable optical resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900066. | 1.1 | 32 |
| 52 | A high-SPL piezoelectric MEMS loud speaker based on thin ceramic PZT. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 112018. | 2.0 | 31 |
| 53 | A Compact Fourier Transform Spectrometer on a Silicon Optical Bench With an Electrothermal MEMS Mirror. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 347-355. | 1.7 | 30 |
| 54 | Study on skylight polarization patterns over the ocean for polarized light navigation application. <i>Applied Optics</i> , 2018, 57, 6243. | 0.9 | 30 |

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| 55 | MEMS Ultrasound Transducers for Endoscopic Photoacoustic Imaging Applications. <i>Micromachines</i> , 2020, 11, 928. | 1.4 | 30 |
| 56 | Optically based indentation technique for acute rat brain tissue slices and thin biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 84-95. | 1.6 | 29 |
| 57 | High-Fill-Factor Micromirror Array With Hidden Bimorph Actuators and Tip-Tilt-Piston Capability. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 573-582. | 1.7 | 29 |
| 58 | MEMS mirrors based on a curved concentric electrothermal actuator. <i>Sensors and Actuators A: Physical</i> , 2012, 188, 349-358. | 2.0 | 29 |
| 59 | Correction of image distortions in endoscopic optical coherence tomography based on two-axis scanning MEMS mirrors. <i>Biomedical Optics Express</i> , 2013, 4, 2066. | 1.5 | 28 |
| 60 | VO ₂ -Based MEMS Mirrors. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 780-787. | 1.7 | 28 |
| 61 | A one-step residue-free wet etching process of ceramic PZT for piezoelectric transducers. <i>Sensors and Actuators A: Physical</i> , 2019, 290, 130-136. | 2.0 | 27 |
| 62 | Review of Recent Development of MEMS Speakers. <i>Micromachines</i> , 2021, 12, 1257. | 1.4 | 27 |
| 63 | Low-power CMOS wireless MEMS motion sensor for physiological activity monitoring. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2005, 52, 2539-2551. | 0.1 | 26 |
| 64 | A Millimeter-Tunable-Range Microlens for Endoscopic Biomedical Imaging Applications. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 1237-1244. | 1.0 | 26 |
| 65 | An acceleration switch with a robust latching mechanism and cylindrical contacts. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 055006. | 1.5 | 26 |
| 66 | A Tip-Tilt-Piston Micromirror Array for Optical Phased Array Applications. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1450-1461. | 1.7 | 25 |
| 67 | A curved multimorph based electrothermal micromirror with large scan range and low drive voltage. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 156-163. | 2.0 | 25 |
| 68 | A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. <i>IEEE Sensors Journal</i> , 2013, 13, 2873-2881. | 2.4 | 25 |
| 69 | A High-Q In-Silicon Power Inductor Designed for Wafer-Level Integration of Compact DC-DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 3858-3867. | 5.4 | 25 |
| 70 | Miniature endoscopic optical coherence tomography probe employing a two-axis microelectromechanical scanning mirror with through-silicon vias. <i>Journal of Biomedical Optics</i> , 2011, 16, 026006. | 1.4 | 24 |
| 71 | A CMOS z-axis capacitive accelerometer with comb-finger sensing. , 0, , . | | 22 |
| 72 | Electrothermal micromirror with dual-reflective surfaces for circumferential scanning endoscopic imaging. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2009, 8, 013030. | 1.0 | 22 |

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| 73 | Optical coherence tomography endoscopic probe based on a tilted MEMS mirror. Biomedical Optics Express, 2016, 7, 3345. | 1.5 | 22 |
| 74 | Design and Fabrication of a 2-Axis Electrothermal MEMS Micro-Scanner for Optical Coherence Tomography. Micromachines, 2017, 8, 146. | 1.4 | 22 |
| 75 | An Electrothermal Cu/W Bimorph Tip-Tilt-Piston MEMS Mirror with High Reliability. Micromachines, 2019, 10, 323. | 1.4 | 22 |
| 76 | A Ceramic PZT-Based PMUT Array for Endoscopic Photoacoustic Imaging. Journal of Microelectromechanical Systems, 2020, 29, 1038-1043. | 1.7 | 22 |
| 77 | A Miniature LiDAR With a Detached MEMS Scanner for Micro-Robotics. IEEE Sensors Journal, 2021, 21, 21941-21946. | 2.4 | 22 |
| 78 | 124 \circ Rotation Angle Electrothermal Micromirror With Integrated Platinum Heater. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 316-321. | 1.9 | 20 |
| 79 | Miniaturizing Fourier Transform Spectrometer With an Electrothermal Micromirror. IEEE Photonics Technology Letters, 2015, 27, 1418-1421. | 1.3 | 20 |
| 80 | Design and Fabrication of Integrated Power Inductor Based on Silicon Molding Technology. , 2007, , . | | 19 |
| 81 | A non-resonant fiber scanner based on an electrothermally-actuated MEMS stage. Sensors and Actuators A: Physical, 2015, 233, 239-245. | 2.0 | 19 |
| 82 | A single-crystal silicon 3-axis CMOS-MEMS accelerometer. , 0, , . | | 18 |
| 83 | A lateral-axis micromachined tuning fork gyroscope with torsional <i>Z</i> -sensing and electrostatic force-balanced driving. Journal of Micromechanics and Microengineering, 2010, 20, 025007. | 1.5 | 18 |
| 84 | Piezoelectric micromachined ultrasound transducer array for photoacoustic imaging. , 2013, , . | | 18 |
| 85 | A CMOS-MEMS lateral-axis gyroscope. , 0, , . | | 17 |
| 86 | Development of Dual-Frequency PMUT Arrays Based on Thin Ceramic PZT for Endoscopic Photoacoustic Imaging. Journal of Microelectromechanical Systems, 2021, 30, 770-782. | 1.7 | 17 |
| 87 | Microendoscopic Confocal Imaging Probe Based on an LVD Microlens Scanner. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 228-234. | 1.9 | 16 |
| 88 | A novel integrated power inductor in silicon substrate for ultra-compact power supplies. , 2010, , . | | 16 |
| 89 | Probe alignment and design issues of microelectromechanical system based optical coherence tomography endoscopic imaging. Applied Optics, 2013, 52, 6589. | 0.9 | 16 |
| 90 | Portable optical ϵ resolution photoacoustic microscopy for volumetric imaging of multiscale organisms. Journal of Biophotonics, 2018, 11, e201700250. | 1.1 | 16 |

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| 91 | H [∞] Robust Control of a Large-Piston MEMS Micromirror for Compact Fourier Transform Spectrometer Systems. <i>Sensors</i> , 2018, 18, 508. | 2.1 | 16 |
| 92 | A Low-Voltage, Low-Current, Digital-Driven MEMS Mirror for Low-Power LiDAR. , 2020, 4, 1-4. | | 16 |
| 93 | A CMOS-MEMS Gyroscope Interface Circuit Design With High Gain and Low Temperature Dependence. <i>IEEE Sensors Journal</i> , 2011, 11, 2740-2748. | 2.4 | 15 |
| 94 | A parametric dynamic compact thermal model of an electrothermally actuated micromirror. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 065007. | 1.5 | 14 |
| 95 | An electromagnetically actuated micromirror with precise angle control for harsh environment optical switching applications. <i>Sensors and Actuators A: Physical</i> , 2014, 206, 1-9. | 2.0 | 14 |
| 96 | Increased Multilayer Fabrication and RF Characterization of a High-Density Stacked MIM Capacitor Based on Selective Etching. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 2302-2308. | 1.6 | 14 |
| 97 | Design and Fabrication of a Piezoelectric Micromachined Ultrasonic Transducer Array Based on Ceramic PZT. , 2018, , . | | 14 |
| 98 | Circumferential-scanning endoscopic optical coherence tomography probe based on a circular array of six 2-axis MEMS mirrors. <i>Biomedical Optics Express</i> , 2018, 9, 2104. | 1.5 | 14 |
| 99 | A 1Å–20 MEMS mirror array with large scan angle and low driving voltage for optical wavelength-selective switches. <i>Sensors and Actuators A: Physical</i> , 2021, 324, 112689. | 2.0 | 14 |
| 100 | A large-aperture, piston-tip-tilt micromirror for optical phase array applications. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , . | 0.0 | 13 |
| 101 | A Fourier Transform Spectrometer Based on an Electrothermal MEMS Mirror with Improved Linear Scan Range. <i>Sensors</i> , 2016, 16, 1611. | 2.1 | 13 |
| 102 | Miniature Fourier transform spectrometer with a dual closed-loop controlled electrothermal micromirror. <i>Optics Express</i> , 2016, 24, 22650. | 1.7 | 13 |
| 103 | Modeling and Control of a Large-Stroke Electrothermal MEMS Mirror for Fourier Transform Microspectrometers. <i>Journal of Microelectromechanical Systems</i> , 2016, , 1-11. | 1.7 | 13 |
| 104 | Stability Study of an Electrothermally-Actuated MEMS Mirror with Al/SiO ₂ Bimorphs. <i>Micromachines</i> , 2019, 10, 693. | 1.4 | 13 |
| 105 | Nondestructive On-Site Detection of Soybean Contents Based on An Electrothermal MEMS Fourier Transform Spectrometer. <i>IEEE Photonics Journal</i> , 2019, 11, 1-10. | 1.0 | 13 |
| 106 | A novel algorithm for estimating the relative rotation angle of solar azimuth through single-pixel rings from polar coordinate transformation for imaging polarization navigation sensors. <i>Optik</i> , 2019, 178, 868-878. | 1.4 | 13 |
| 107 | A 1mW Dual-Chopper Amplifier for a 50- $\hat{1}$ / $4\hat{g}\hat{\sim}$ Hz Monolithic CMOS-MEMS Capacitive Accelerometer. , 0, , . | | 12 |
| 108 | A Miniature Fourier Transform Spectrometer by a Large-Vertical-Displacement Microelectromechanical Mirror. , 2009, , . | | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Silicon molding techniques for integrated power MEMS inductors. Sensors and Actuators A: Physical, 2011, 166, 157-163. | 2.0 | 12 |
| 110 | Piston Motion Performance Analysis of a 3DOF Electrothermal MEMS Scanner for Medical Applications. International Journal of Optomechatronics, 2014, 8, 179-194. | 3.3 | 12 |
| 111 | Modelling and Experimental Verification of Step Response Overshoot Removal in Electrothermally-Actuated MEMS Mirrors. Micromachines, 2017, 8, 289. | 1.4 | 12 |
| 112 | A Monolithic Forward-View MEMS Laser Scanner With Decoupled Raster Scanning and Enlarged Scanning Angle for Micro LiDAR Applications. Journal of Microelectromechanical Systems, 2020, 29, 996-1001. | 1.7 | 12 |
| 113 | Ultralow-voltage electrothermal MEMS based fiber-optic scanning probe for forward-viewing endoscopic OCT. Optics Letters, 2019, 44, 2232. | 1.7 | 12 |
| 114 | Using 2 x 2 switching modules to build large 2-D MEMS optical switches. , 0, , . | | 11 |
| 115 | Optical Coherence Tomography for Noninvasive Diagnosis of Epithelial Cancers. , 2006, 2006, 129-32. | | 11 |
| 116 | Repeatability study of an electrothermally actuated micromirror. , 2009, , . | | 11 |
| 117 | Pre-Shaped Open Loop Drive of Electrothermal Micromirror by Continuous and Pulse Width Modulated Waveforms. IEEE Journal of Quantum Electronics, 2010, 46, 1254-1260. | 1.0 | 11 |
| 118 | Fabrication of robust electrothermal MEMS devices using aluminum-tungsten bimorphs and polyimide thermal isolation. Journal of Micromechanics and Microengineering, 2012, 22, 115036. | 1.5 | 11 |
| 119 | Localized Growth of Carbon Nanotubes on CMOS Substrate at Room Temperature Using Maskless Post-CMOS Processing. IEEE Nanotechnology Magazine, 2012, 11, 16-20. | 1.1 | 11 |
| 120 | 3-D Confocal Laser Scanning Microscopy Based on a Full-MEMS Scanning System. IEEE Photonics Technology Letters, 2013, 25, 1478-1480. | 1.3 | 11 |
| 121 | A MEMS lens scanner based on serpentine electrothermal bimorph actuators for large axial tuning. Optics Express, 2020, 28, 23439. | 1.7 | 11 |
| 122 | Scanning optimization of an electrothermally-actuated MEMS mirror for applications in optical coherence tomography endoscopy. Sensors and Actuators A: Physical, 2022, 335, 113377. | 2.0 | 11 |
| 123 | A SCS CMOS micromirror for optical coherence tomographic imaging. , 0, , . | | 10 |
| 124 | An analytical electrothermal model of a 1D electrothermal MEMS micromirror. , 2005, , . | | 10 |
| 125 | Accelerometers. , 2008, , 135-180. | | 10 |
| 126 | Microelectromechanical systems scanning-mirror-based handheld probe for fluorescence molecular tomography. Applied Optics, 2012, 51, 4678. | 0.9 | 10 |

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| 127 | Simultaneous piston position and tilt angle sensing for large vertical displacement micromirrors by frequency detection inductive sensing. <i>Applied Physics Letters</i> , 2015, 107, . | 1.5 | 10 |
| 128 | Resonant Inductive Coupling-Based Piston Position Sensing Mechanism for Large Vertical Displacement Micromirrors. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 207-216. | 1.7 | 10 |
| 129 | Miniaturized Optical Resolution Photoacoustic Microscope Based on a Microelectromechanical Systems Scanning Mirror. <i>Micromachines</i> , 2018, 9, 288. | 1.4 | 10 |
| 130 | Temperature stability study of resonant angular scanning micromirrors with electrostatic comb-drive actuators. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112525. | 2.0 | 10 |
| 131 | A Multi-Frequency pMUT Array Based on Ceramic PZT for Endoscopic Photoacoustic Imaging. , 2021, , . | | 10 |
| 132 | Enabling Continuous Cu Seed Layer for Deep Through-Silicon-Vias With High Aspect Ratio by Sequential Sputtering and Electroless Plating. <i>IEEE Electron Device Letters</i> , 2021, 42, 1520-1523. | 2.2 | 10 |
| 133 | A mems variable optical attenuator based on a vertical comb drive with self-elevated stators. <i>Sensors and Actuators A: Physical</i> , 2018, 271, 398-408. | 2.0 | 10 |
| 134 | An electrothermally-actuated, dual-mode micromirror for large bi-directional scanning. , 0, , . | | 9 |
| 135 | Steady-state 1D electrothermal modeling of an electrothermal transducer. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 2264-2276. | 1.5 | 9 |
| 136 | Design and Fabrication of Microheaters for Localized Carbon Nanotube Growth. , 2008, , . | | 9 |
| 137 | An improved low-power low-noise dual-chopper amplifier for capacitive CMOS-MEMS accelerometers. , 2008, , . | | 9 |
| 138 | A mirror-tilt-insensitive Fourier transform spectrometer based on a large vertical displacement micromirror with dual reflective surface. , 2009, , . | | 9 |
| 139 | Analysis and Fabrication of Curved Multimorph Transducers That Undergo Bending and Twisting. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 1241-1251. | 1.7 | 9 |
| 140 | Model-Based Angular Scan Error Correction of an Electrothermally-Actuated MEMS Mirror. <i>Sensors</i> , 2015, 15, 30991-31004. | 2.1 | 9 |
| 141 | Directionally Controlled Time-of-Flight Ranging for Mobile Sensing Platforms. , 0, , . | | 9 |
| 142 | Integrated tilt angle sensing for large displacement scanning MEMS mirrors. <i>Optics Express</i> , 2018, 26, 25736. | 1.7 | 9 |
| 143 | A DRIE CMOS-MEMS gyroscope. , 0, , . | | 8 |
| 144 | A Lateral-Shift-Free and Large-Vertical-Displacement Electrothermal Actuator for Scanning Micromirror/Lens. , 2007, , . | | 8 |

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| 145 | A robust, fast electrothermal micromirror with symmetric bimorph actuators made of copper/tungsten. , 2015, , . | | 8 |
| 146 | Thermal Reliability Study of an Electrothermal MEMS Mirror. IEEE Transactions on Device and Materials Reliability, 2018, 18, 422-428. | 1.5 | 8 |
| 147 | A MEMS Based Fourier Transform Spectrometer and Its Scan Stability Study. ECS Journal of Solid State Science and Technology, 2018, 7, Q3025-Q3031. | 0.9 | 8 |
| 148 | A Compact Omnidirectional Laser Scanner Based on an Electrothermal Tripod Mems Mirror for Lidar Please Leave. , 2019, , . | | 8 |
| 149 | A silicon optical bench with vertically-oriented micromirrors for active beam steering. Sensors and Actuators A: Physical, 2019, 298, 111586. | 2.0 | 8 |
| 150 | Analog-controlled light microshutters based on electrothermal actuation for smart windows. Optics Express, 2020, 28, 33106. | 1.7 | 8 |
| 151 | ELECTROTHERMAL SCS MICROMIRROR WITH LARGE-VERTICAL-DISPLACEMENT ACTUATION. , 2004, , . | | 8 |
| 152 | HALF-MILLIMETER-RANGE VERTICALLY SCANNING MICROLENSSES FOR MICROSCOPIC FOCUSING APPLICATIONS. , 2006, , . | | 8 |
| 153 | Review of Electrothermal Micromirrors. Micromachines, 2022, 13, 429. | 1.4 | 8 |
| 154 | MEMS-based endoscopic optical coherence tomography. , 2005, , . | | 7 |
| 155 | Fiber-optic confocal microscope with an electrothermally-actuated, large-tunable-range microlens scanner for depth scanning. , 2010, , . | | 7 |
| 156 | Common-path optical coherence tomography using a microelectromechanical-system-based endoscopic probe. Applied Optics, 2016, 55, 6930. | 2.1 | 7 |
| 157 | Investigation of dynamic thermal behaviors of an electrothermal micromirror. Sensors and Actuators A: Physical, 2017, 263, 269-275. | 2.0 | 7 |
| 158 | Integrated Optoelectronic Position Sensor for Scanning Micromirrors. Sensors, 2018, 18, 982. | 2.1 | 7 |
| 159 | Fourier transform infrared spectrometer based on an electrothermal MEMS mirror. Applied Optics, 2018, 57, 5956. | 0.9 | 7 |
| 160 | A Piezoelectric MEMS Loud Speaker Based on Ceramic PZT. , 2019, , . | | 7 |
| 161 | A Silicon Optical Bench-Based Forward-View Two-Axis Scanner for Microendoscopy Applications. Micromachines, 2020, 11, 1051. | 1.4 | 7 |
| 162 | Adaptive fovea for scanning depth sensors. International Journal of Robotics Research, 2020, 39, 837-855. | 5.8 | 7 |

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| 163 | A scanning micromirror with stationary rotation axis and dual reflective surfaces for 360° forward-view endoscopic imaging. , 2009, , . | | 6 |
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