

Huikai Xie

List of Publications by Year in descending order

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314
papers

5,910
citations

94269

37
h-index

106150

65
g-index

317
all docs

317
docs citations

317
times ranked

3547
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning optimization of an electrothermally-actuated MEMS mirror for applications in optical coherence tomography endoscopy. <i>Sensors and Actuators A: Physical</i> , 2022, 335, 113377.	2.0	11
2	Ultra-Deep Annular Cu Through-Silicon-Vias Fabricated Using Single-Sided Process. <i>IEEE Electron Device Letters</i> , 2022, 43, 426-429.	2.2	4
3	Review of Electrothermal Micromirrors. <i>Micromachines</i> , 2022, 13, 429.	1.4	8
4	Thermally actuated micro-/nanoscale deformations for optical reconfigurations. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 054007.	1.0	2
5	An approach for achieving uniform temperature distribution on the bimorphs of electrothermal micromirrors. <i>Sensors and Actuators A: Physical</i> , 2022, 342, 113632.	2.0	1
6	Intraoperative Brain Imaging with a Miniature Probe Based on an Electrothermal Actuated MEMS Mirror. , 2022, , .		0
7	Design and Fabrication of a Forward View Scanner on SiOB with Latch Structure for Improved Vertical Orientation. , 2021, , .		0
8	Stiffness-Tunable Microstructures Based on Electrothermal Bimorph Beams. , 2021, , .		0
9	A High-Density and Dual-Frequency PMUT Array Based On Thin Ceramic PZT for Endoscopic Photoacoustic Imaging. , 2021, , .		6
10	Application of OCT for osteonecrosis using an endoscopic probe based on an electrothermal MEMS scanning mirror. <i>International Journal of Optomechatronics</i> , 2021, 15, 87-96.	3.3	5
11	A Dual-Electrode MEMS Speaker Based on Ceramic PZT with Improved Sound Pressure Level by Phase Tuning. , 2021, , .		6
12	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
13	A Multi-Frequency pMUT Array Based on Ceramic PZT for Endoscopic Photoacoustic Imaging. , 2021, , .		10
14	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
15	A Monolithic Forward-View Optical Scanner by a Pair of Upright MEMS Mirrors on a SiOB for LiDAR Applications. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 791-798.	1.7	2
16	Development of Dual-Frequency PMUT Arrays Based on Thin Ceramic PZT for Endoscopic Photoacoustic Imaging. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 770-782.	1.7	17
17	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
18	Review of Recent Development of MEMS Speakers. <i>Micromachines</i> , 2021, 12, 1257.	1.4	27

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19	A Miniature LiDAR With a Detached MEMS Scanner for Micro-Robotics. IEEE Sensors Journal, 2021, 21, 21941-21946.	2.4	22
20	MEMS Ultrasound Transducers for Endoscopic Photoacoustic Imaging Applications. Micromachines, 2020, 11, 928.	1.4	30
21	A Ceramic PZT-Based PMUT Array for Endoscopic Photoacoustic Imaging. Journal of Microelectromechanical Systems, 2020, 29, 1038-1043.	1.7	22
22	A Customized Two Photon Fluorescence Imaging Probe Based on 2D scanning MEMS Mirror Including Electrothermal Two-Level-Ladder Dual S-Shaped Actuators. Micromachines, 2020, 11, 704.	1.4	5
23	A Robust Compact Lens Scanner with Large Tunable Range. , 2020, , .		0
24	In Vivo Evaluation of a Miniaturized Fluorescence Molecular Tomography (FMT) Endoscope for Breast Cancer Detection Using Targeted Nanoprobes. International Journal of Molecular Sciences, 2020, 21, 9389.	1.8	5
25	A Silicon Optical Bench-Based Forward-View Two-Axis Scanner for Microendoscopy Applications. Micromachines, 2020, 11, 1051.	1.4	7
26	A high-SPL piezoelectric MEMS loud speaker based on thin ceramic PZT. Sensors and Actuators A: Physical, 2020, 309, 112018.	2.0	31
27	MEMS Mirrors for LiDAR: A Review. Micromachines, 2020, 11, 456.	1.4	209
28	Adaptive fovea for scanning depth sensors. International Journal of Robotics Research, 2020, 39, 837-855.	5.8	7
29	An imaging analysis and reconstruction method for multiple-micro-electro-mechanical system mirrors-based off-centre scanning optical coherence tomography probe. Laser Physics Letters, 2020, 17, 075601.	0.6	1
30	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
31	A Low-Voltage, Low-Current, Digital-Driven MEMS Mirror for Low-Power LiDAR. , 2020, 4, 1-4.		16
32	Light trapping enhancement via structure design. International Journal of Modern Physics B, 2020, 34, 2050040.	1.0	6
33	Real-time Lissajous imaging with a low-voltage 2-axis MEMS scanner based on electrothermal actuation. Optics Express, 2020, 28, 8512.	1.7	40
34	A MEMS lens scanner based on serpentine electrothermal bimorph actuators for large axial tuning. Optics Express, 2020, 28, 23439.	1.7	11
35	Analog-controlled light microshutters based on electrothermal actuation for smart windows. Optics Express, 2020, 28, 33106.	1.7	8
36	Study on displacement estimation in low illumination environment through polarized contrast-enhanced optical flow method for polarization navigation applications. Optik, 2020, 210, 164513.	1.4	6

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37	Editorial for the Special Issue on Optical MEMS. <i>Micromachines</i> , 2019, 10, 458.	1.4	2
38	Stability Study of an Electrothermally-Actuated MEMS Mirror with Al/SiO ₂ Bimorphs. <i>Micromachines</i> , 2019, 10, 693.	1.4	13
39	A Compact Omnidirectional Laser Scanner Based on an Electrothermal Tripod Mems Mirror for Lidar Please Leave. , 2019, , .		8
40	A Piezoelectric MEMS Loud Speaker Based on Ceramic PZT. , 2019, , .		7
41	A Novel Out-of-Plane Electrothermal Bistable Microactuator. , 2019, , .		1
42	A silicon optical bench with vertically-oriented micromirrors for active beam steering. <i>Sensors and Actuators A: Physical</i> , 2019, 298, 111586.	2.0	8
43	An Electrothermal Cu/W Bimorph Tip-Tilt-Piston MEMS Mirror with High Reliability. <i>Micromachines</i> , 2019, 10, 323.	1.4	22
44	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
45	Miniature fluorescence molecular tomography (FMT) endoscope based on a MEMS scanning mirror and an optical fiberscope. <i>Physics in Medicine and Biology</i> , 2019, 64, 125015.	1.6	4
46	Wearable optical resolution photoacoustic microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900066.	1.1	32
47	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
48	An Electrothermal Micromirror with J-shaped Bimorph Microactuators. , 2019, , .		0
49	A Large Aperture 2-Axis Electrothermal MEMS Mirror for Compact 3D LiDAR. , 2019, , .		4
50	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
51	Ultralow-voltage electrothermal MEMS based fiber-optic scanning probe for forward-viewing endoscopic OCT. <i>Optics Letters</i> , 2019, 44, 2232.	1.7	12
52	Development of an electrothermal MEMS mirror based two-photon microscopy probe. , 2019, , .		0
53	A fiber scanner based on a robust Cu/W bimorph electrothermal MEMS stage. , 2019, , .		1
54	Noise Reduction of Swept-Source Optical Coherence Tomography via Compressed Sensing. <i>IEEE Photonics Journal</i> , 2018, 10, 1-9.	1.0	6

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55	Electro-thermal MEMS fiber scanner for endoscopic optical coherence tomography (Conference) Tj ETQq1 1 0.784314 rgBT /Qoverlock		
56	Portable optical resolution photoacoustic microscopy for volumetric imaging of multiscale organisms. Journal of Biophotonics, 2018, 11, e201700250.	1.1	16
57	Endoscopic Optical Doppler Tomography Based on Two-Axis Scanning MEMS Mirror. Chinese Physics Letters, 2018, 35, 120701.	1.3	2
58	An Integrated Forward-View 2-Axis Mems Scanner for Compact 3D Lidar. , 2018, , .		4
59	Design and Fabrication of a Piezoelectric Micromachined Ultrasonic Transducer Array Based on Ceramic PZT. , 2018, , .		14
60	A Miniature Endoscopic Optical Coherence Tomography Probe Based on C-Lens. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	3
61	A Miniature Lens Scanner with an Electrothermally-Actuated Micro-Stage. , 2018, , .		1
62	Ultracompact high-resolution photoacoustic microscopy. Optics Letters, 2018, 43, 1615.	1.7	64
63	Circumferential-scanning endoscopic optical coherence tomography probe based on a circular array of six 2-axis MEMS mirrors. Biomedical Optics Express, 2018, 9, 2104.	1.5	14
64	Thermal Reliability Study of an Electrothermal MEMS Mirror. IEEE Transactions on Device and Materials Reliability, 2018, 18, 422-428.	1.5	8
65	Total-Ionizing-Dose Effects on Al/SiO ₂ Bimorph Electrothermal Microscanners. IEEE Transactions on Nuclear Science, 2018, 65, 2260-2267.	1.2	0
66	Editorial for the Special Issue on MEMS Mirrors. Micromachines, 2018, 9, 99.	1.4	4
67	Miniaturized Optical Resolution Photoacoustic Microscope Based on a Microelectromechanical Systems Scanning Mirror. Micromachines, 2018, 9, 288.	1.4	10
68	Integrated Optoelectronic Position Sensor for Scanning Micromirrors. Sensors, 2018, 18, 982.	2.1	7
69	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
70	Endoscopic optical coherence tomography probe with large scan range. , 2018, , .		0
71	Study on skylight polarization patterns over the ocean for polarized light navigation application. Applied Optics, 2018, 57, 6243.	0.9	30
72	Fourier transform infrared spectrometer based on an electrothermal MEMS mirror. Applied Optics, 2018, 57, 5956.	0.9	7

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73	H \hat{z} Robust Control of a Large-Piston MEMS Micromirror for Compact Fourier Transform Spectrometer Systems. <i>Sensors</i> , 2018, 18, 508.	2.1	16
74	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
75	A compact 3D lidar based on an electrothermal two-axis MEMS scanner for small UAV. , 2018, , .		6
76	The SS-OCT endomicroscopy probe based on MOEMS Mirau micro-interferometer for early stomach cancer detection. , 2018, , .		2
77	Trace Gas Detection Using a MEMS-Based Portable Fourier Transform Infrared Spectrometer. , 2018, , .		0
78	Integrated tilt angle sensing for large displacement scanning MEMS mirrors. <i>Optics Express</i> , 2018, 26, 25736.	1.7	9
79	Swept-source optical coherence tomography microsystem with an integrated Mirau interferometer and electrothermal micro-scanner. <i>Optics Letters</i> , 2018, 43, 4847.	1.7	5
80	Total-Ionizing-Dose Effects on Piezoelectric Micromachined Ultrasonic Transducers. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 233-238.	1.2	2
81	A bi-directional large-stroke electrothermal MEMS mirror with minimal thermal and temporal drift. , 2017, , .		6
82	Miniature multimodal endoscopic probe based on double-clad fiber. , 2017, , .		0
83	Miniature Endoscope for Multimodal Imaging. <i>ACS Photonics</i> , 2017, 4, 174-180.	3.2	46
84	An ultra-fast electrothermal micromirror with bimorph actuators made of copper/tungsten. , 2017, , .		6
85	An integrated optoelectronic position sensor for MEMS scanning mirrors. , 2017, , .		2
86	A 2-axis MEMS scanning micromirror with a 45 \hat{A} auto-positioning mechanism for endoscopic probe. , 2017, , .		2
87	Investigation of dynamic thermal behaviors of an electrothermal micromirror. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 269-275.	2.0	7
88	A High-Q In-Silicon Power Inductor Designed for Wafer-Level Integration of Compact DC \hat{C} DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 3858-3867.	5.4	25
89	Portable Fourier transform infrared spectrometer based on an electrothermal MEMS mirror. , 2017, , .		4
90	Gastric and colon cancer imaging with swept source optical coherence tomography. , 2017, , .		3

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91	An auto-aligned vertical comb drive for low-cost variable optical attenuators. , 2017, , .		1
92	Modelling and Experimental Verification of Step Response Overshoot Removal in Electrothermally-Actuated MEMS Mirrors. Micromachines, 2017, 8, 289.	1.4	12
93	Design and Fabrication of a 2-Axis Electrothermal MEMS Micro-Scanner for Optical Coherence Tomography. Micromachines, 2017, 8, 146.	1.4	22
94	Gastric myxoma imaging with swept source optical coherence tomography. , 2017, , .		0
95	A compact MEMS-based wide-angle optical scanner. , 2017, , .		3
96	Characterization and reliability study of a MEMS mirror based on electrothermal bimorph actuation. , 2017, , .		2
97	Photoacoustic endomicroscopy based on a MEMS scanning mirror. Optics Letters, 2017, 42, 4615.	1.7	45
98	Monolithic Integration of Carbon Nanotubes and CMOS. , 2017, , 131-167.		0
99	A Fourier Transform Spectrometer Based on an Electrothermal MEMS Mirror with Improved Linear Scan Range. Sensors, 2016, 16, 1611.	2.1	13
100	Optical coherence tomography endoscopic probe based on a tilted MEMS mirror. Biomedical Optics Express, 2016, 7, 3345.	1.5	22
101	Miniature Fourier transform spectrometer with a dual closed-loop controlled electrothermal micromirror. Optics Express, 2016, 24, 22650.	1.7	13
102	A large range micro-XZ-stage with monolithic integration of electrothermal bimorph actuators and electrostatic comb drives. , 2016, , .		4
103	A large-piston scanning electrothermal micromirror with a temperature control frame. , 2016, , .		1
104	A wide-angle immersed MEMS mirror and its application in optical coherence tomography. , 2016, , .		4
105	Common-path optical coherence tomography using a microelectromechanical-system-based endoscopic probe. Applied Optics, 2016, 55, 6930.	2.1	7
106	A Monolithic Michelson interferometer with a large piston MEMS micromirror. , 2016, , .		1
107	A high fill factor 1Å–20 MEMS mirror array based on ISC bimorph structure. , 2016, , .		1
108	A 2-axis electrothermal MEMS micro-scanner with torsional beam. , 2016, , .		2

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109	VO ₂ -Based MEMS Mirrors. Journal of Microelectromechanical Systems, 2016, 25, 780-787.	1.7	28
110	A Self-Aligned 45°-Tilted Two-Axis Scanning Micromirror for Side-View Imaging. Journal of Microelectromechanical Systems, 2016, 25, 799-811.	1.7	6
111	Modeling and Control of a Large-Stroke Electrothermal MEMS Mirror for Fourier Transform Microspectrometers. Journal of Microelectromechanical Systems, 2016, , 1-11.	1.7	13
112	Resonant Inductive Coupling-Based Piston Position Sensing Mechanism for Large Vertical Displacement Micromirrors. Journal of Microelectromechanical Systems, 2016, 25, 207-216.	1.7	10
113	A Compact Fourier Transform Spectrometer on a Silicon Optical Bench With an Electrothermal MEMS Mirror. Journal of Microelectromechanical Systems, 2016, 25, 347-355.	1.7	30
114	Wide-angle structured light with a scanning MEMS mirror in liquid. Optics Express, 2016, 24, 3479.	1.7	37
115	CMOS MEMS Fabrication Technologies. , 2016, , 540-549.		0
116	A tri-modal miniature probe for in vivo imaging. , 2016, , .		0
117	An Optical Coherence Tomography Endoscopic Probe Based on a Tilted MEMS Mirror. , 2016, , .		1
118	Simultaneous piston position and tilt angle sensing for large vertical displacement micromirrors by frequency detection inductive sensing. Applied Physics Letters, 2015, 107, .	1.5	10
119	A Fast, Large-Stroke Electrothermal MEMS Mirror Based on Cu/W Bimorph. Micromachines, 2015, 6, 1876-1889.	1.4	36
120	Model-Based Angular Scan Error Correction of an Electrothermally-Actuated MEMS Mirror. Sensors, 2015, 15, 30991-31004.	2.1	9
121	Multiphysics & Parallel Kinematics Modeling of a 3DOF MEMS Mirror. MATEC Web of Conferences, 2015, 32, 01004.	0.1	0
122	A silicon based Fourier transform spectrometer base on an open-loop controlled electrothermal MEMS mirror. , 2015, , .		5
123	MEMS mirrors submerged in liquid for wide-angle scanning. , 2015, , .		3
124	Miniature fourier transform spectrometers based on electrothermal MEMS mirrors with large piston scan range. , 2015, , .		5
125	Miniature probe integrating optical-resolution photoacoustic microscopy, optical coherence tomography, and ultrasound imaging: proof-of-concept. Optics Letters, 2015, 40, 2921.	1.7	38
126	A non-resonant fiber scanner based on an electrothermally-actuated MEMS stage. Sensors and Actuators A: Physical, 2015, 233, 239-245.	2.0	19

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127	A 45°-tilted 2-axis scanning micromirror integrated on a silicon optical bench for 3D endoscopic optical imaging. , 2015, , .		5
128	Inductive eddy current sensing as a displacement sensing mechanism for large piston/rotation micromirrors. , 2015, , .		6
129	A robust, fast electrothermal micromirror with symmetric bimorph actuators made of copper/tungsten. , 2015, , .		8
130	Miniaturizing Fourier Transform Spectrometer With an Electrothermal Micromirror. IEEE Photonics Technology Letters, 2015, 27, 1418-1421.	1.3	20
131	An endoscopic forward-viewing OCT imaging probe based on a two-axis scanning mems mirror. , 2014, , .		5
132	Swept-source common-path optical coherence tomography with a MEMS endoscopic imaging probe. Proceedings of SPIE, 2014, , .	0.8	2
133	Hysteresis Property of Tip-Tilt-Piston Micromirror Based on Tilt-and-Lateral Shift-Free Piezoelectric Unimorph Actuator. Integrated Ferroelectrics, 2014, 150, 14-22.	0.3	3
134	MEMS-based 3D confocal scanning microendoscope using MEMS scanners for both lateral and axial scan. Sensors and Actuators A: Physical, 2014, 215, 89-95.	2.0	55
135	An electromagnetically actuated micromirror with precise angle control for harsh environment optical switching applications. Sensors and Actuators A: Physical, 2014, 206, 1-9.	2.0	14
136	A Large Piston Displacement MEMS Mirror With Electrothermal Ladder Actuator Arrays for Ultra-Low Tilt Applications. Journal of Microelectromechanical Systems, 2014, 23, 39-49.	1.7	43
137	Piston Motion Performance Analysis of a 3DOF Electrothermal MEMS Scanner for Medical Applications. International Journal of Optomechatronics, 2014, 8, 179-194.	3.3	12
138	Increased Multilayer Fabrication and RF Characterization of a High-Density Stacked MIM Capacitor Based on Selective Etching. IEEE Transactions on Electron Devices, 2014, 61, 2302-2308.	1.6	14
139	Measurement of viscoelastic properties in multiple anatomical regions of acute rat brain tissue slices. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 213-224.	1.5	50
140	Design and fabrication of a high-density multilayer metal-insulator-metal capacitor based on selective etching. Journal of Micromechanics and Microengineering, 2013, 23, 035025.	1.5	5
141	3-D Confocal Laser Scanning Microscopy Based on a Full-MEMS Scanning System. IEEE Photonics Technology Letters, 2013, 25, 1478-1480.	1.3	11
142	Confocal microendoscopic 3D imaging using MEMS scanners for both lateral and axial scans. , 2013, , .		1
143	Tip-tilt-piston piezoelectric micromirror with folded PZT unimorph actuators. , 2013, , .		2
144	Design and fabrication of an electromagnetically actuated optical switch with precise tilt angle control. , 2013, , .		0

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145	A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. IEEE Sensors Journal, 2013, 13, 2873-2881.	2.4	25
146	An electrothermal/electrostatic dual driven MEMS scanner with large in-plane and out-of-plane displacement. , 2013, , .		3
147	A tip-tilt-piston micromirror with a double S-shaped unimorph piezoelectric actuator. Sensors and Actuators A: Physical, 2013, 193, 121-128.	2.0	34
148	Miniature probe combining optical-resolution photoacoustic microscopy and optical coherence tomography for in vivomicrocirculation study. Applied Optics, 2013, 52, 1928.	0.9	39
149	Probe alignment and design issues of microelectromechanical system based optical coherence tomography endoscopic imaging. Applied Optics, 2013, 52, 6589.	0.9	16
150	Correction of image distortions in endoscopic optical coherence tomography based on two-axis scanning MEMS mirrors. Biomedical Optics Express, 2013, 4, 2066.	1.5	28
151	Handheld miniature probe integrating diffuse optical tomography with photoacoustic imaging through a MEMS scanning mirror. Biomedical Optics Express, 2013, 4, 427.	1.5	41
152	A MEMS accelerometer-based real-time motion-sensing module for urological diagnosis and treatment. Journal of Medical Engineering and Technology, 2013, 37, 127-134.	0.8	4
153	Endoscopic swept-source optical coherence tomography based on a two-axis microelectromechanical system mirror. Journal of Biomedical Optics, 2013, 18, 086005.	1.4	37
154	Repeatability study of 2D MEMS mirrors based on S-shaped Al/SiO ₂ bimorphs. , 2013, , .		6
155	Electrothermally actuated large displacement waveguides. , 2013, , .		0
156	Piezoelectric micromachined ultrasound transducer array for photoacoustic imaging. , 2013, , .		18
157	Large in-plane displacement microactuators based on electro-thermal bimorphs with folded multiple segments. , 2013, , .		1
158	A tip-tilt-piston piezoelectric scanning micromirror with folded PZT unimorph actuators. , 2013, , .		2
159	Refractive index measurement of acute rat brain tissue slices using optical coherence tomography. Optics Express, 2012, 20, 1084.	1.7	84
160	Microelectromechanical systems scanning-mirror-based handheld probe for fluorescence molecular tomography. Applied Optics, 2012, 51, 4678.	0.9	10
161	Evaluation of breast tumor margins in vivo with intraoperative photoacoustic imaging. Optics Express, 2012, 20, 8726.	1.7	92
162	Three-dimensional confocal scanning microscope using an MEMS mirror for lateral scan and an MEMS lens scanner for depth scan. , 2012, , .		2

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163	Novel mechanisms for millimeter range piston actuation of vertical micromirrors and microlenses. , 2012, , .		1
164	A 2.8-mm Imaging Probe Based On a High-Fill-Factor MEMS Mirror and Wire-Bonding-Free Packaging for Endoscopic Optical Coherence Tomography. Journal of Microelectromechanical Systems, 2012, 21, 1291-1302.	1.7	36
165	Tip-tilt-piston micromirror based on symmetrical lateral-shift-free piezoelectric actuators. , 2012, , .		1
166	Analysis and Fabrication of Curved Multimorph Transducers That Undergo Bending and Twisting. Journal of Microelectromechanical Systems, 2012, 21, 1241-1251.	1.7	9
167	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
168	MEMS mirrors based on a curved concentric electrothermal actuator. Sensors and Actuators A: Physical, 2012, 188, 349-358.	2.0	29
169	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
170	Intraoperative photoacoustic tumor imaging. , 2012, , .		0
171	Design and Characterization of MEMS Based Optical Coherence Tomography Endoscopic Probe. , 2012, , .		1
172	A LARGE PISTON DISPLACEMENT MEMS MIRROR WITH ELECTROTHERMAL LADDER ACTUATOR ARRAYS FOR FOURIER TRANSFORM SPECTROSCOPY APPLICATIONS. , 2012, , .		1
173	A NOVEL HIGH-DENSITY CAPACITOR DESIGN AND ITS FABRICATION TECHNIQUE BASED ON SELECTIVE ETCHING. , 2012, , .		0
174	A Low-Power Low-Noise Dual-Chopper Amplifier for Capacitive CMOS-MEMS Accelerometers. IEEE Sensors Journal, 2011, 11, 925-933.	2.4	66
175	Analysis, simulation and fabrication of curved multimorphs that undergo bending and twisting. , 2011, , .		1
176	A Surface-Mountable Microfabricated Power Inductor in Silicon for Ultracompact Power Supplies. IEEE Transactions on Power Electronics, 2011, 26, 1310-1315.	5.4	33
177	A 2.8-MM imaging probe based on a high-fill-factor MEMS mirror and wire-bonding-free packaging for endoscopic optical coherence tomography. , 2011, , .		3
178	Design and fabrication of 2D fast electrothermal micromirrors with large scan range and small center shift. , 2011, , .		2
179	MEMS-Based Endoscopic Optical Coherence Tomography. International Journal of Optics, 2011, 2011, 1-12.	0.6	42
180	Design optimization and implementation of a miniature optical coherence tomography probe based on a MEMS mirror. Proceedings of SPIE, 2011, , .	0.8	2

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181	MEMS-Based Optical Chemical Sensors. , 2011, , 267-303.		4
182	A curved multimorph based electrothermal micromirror with large scan range and low drive voltage. Sensors and Actuators A: Physical, 2011, 170, 156-163.	2.0	25
183	A CMOS-MEMS Gyroscope Interface Circuit Design With High Gain and Low Temperature Dependence. IEEE Sensors Journal, 2011, 11, 2740-2748.	2.4	15
184	Optically based indentation technique for acute rat brain tissue slices and thin biomaterials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 84-95.	1.6	29
185	Silicon molding techniques for integrated power MEMS inductors. Sensors and Actuators A: Physical, 2011, 166, 157-163.	2.0	12
186	A piezoelectric unimorph actuator based tip-tilt-piston micromirror with high fill factor and small tilt and lateral shift. Sensors and Actuators A: Physical, 2011, 167, 495-501.	2.0	70
187	A process for fabricating robust electrothermal micromirrors with customizable thermal response time and power consumption. , 2011, , .		1
188	High-Fill-Factor Micromirror Array With Hidden Bimorph Actuators and Tip Tilt-Piston Capability. Journal of Microelectromechanical Systems, 2011, 20, 573-582.	1.7	29
189	Miniature endoscopic optical coherence tomography probe employing a two-axis microelectromechanical scanning mirror with through-silicon vias. Journal of Biomedical Optics, 2011, 16, 026006.	1.4	24
190	MEMS mirrors based on curved concentric electrothermal actuators with very small lateral shift and tilt. , 2011, , .		4
191	Miniature photoacoustic imaging probe using MEMS scanning micromirror. , 2011, , .		2
192	Viscoelastic Property Changes of Acute Rat Brain Tissue Slices as a Function of Cell Viability. , 2011, , .		0
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