

# Martin Hoffmann

## List of Publications by Year in descending order

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162  
papers

2,073  
citations

304743

22  
h-index

315739

38  
g-index

164  
all docs

164  
docs citations

164  
times ranked

1828  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray refractive planar lens with minimized absorption. Applied Physics Letters, 2000, 77, 4058-4060.	3.3	163
2	Heterostructured p-CuO (nanoparticle)/n-SnO <sub>2</sub> (nanowire) devices for selective H <sub>2</sub> S detection. Sensors and Actuators B: Chemical, 2013, 181, 130-135.	7.8	148
3	Liquidâ€Crystalline Elastomer Microvalve for Microfluidics. Advanced Materials, 2011, 23, 4526-4530.	21.0	113
4	Photoâ€Crosslinked Sideâ€Chain Liquidâ€Crystalline Elastomers for Microsystems. Macromolecular Chemistry and Physics, 2009, 210, 1671-1677.	2.2	90
5	Bulk silicon micromachining for MEMS in optical communication systems. Journal of Micromechanics and Microengineering, 2002, 12, 349-360.	2.6	67
6	All-silicon bistable micromechanical fiber switch based on advanced bulk micromachining. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 46-51.	2.9	64
7	X-ray focusing by planar parabolic refractive lenses made of silicon. Optics Communications, 2000, 177, 33-38.	2.1	63
8	Bistable micromechanical fiber-optic switches on silicon with thermal actuators. Sensors and Actuators A: Physical, 1999, 78, 28-35.	4.1	61
9	Low-loss fiber-matched low-temperature PECVD waveguides with small-core dimensions for optical communication systems. IEEE Photonics Technology Letters, 1997, 9, 1238-1240.	2.5	53
10	Interaction Mechanisms of Ammonia and Tin Oxide: A Combined Analysis Using Single Nanowire Devices and DFT Calculations. Journal of Physical Chemistry C, 2013, 117, 3520-3526.	3.1	52
11	Nano fabricated silicon nanorod array with titanium nitride coating for on-chip supercapacitors. Electrochemistry Communications, 2016, 70, 51-55.	4.7	46
12	Thermo-optical digital switch arrays in silica-on-silicon with defined zero-voltage state. Journal of Lightwave Technology, 1998, 16, 395-400.	4.6	45
13	FAIL*: An Open and Versatile Fault-Injection Framework for the Assessment of Software-Implemented Hardware Fault Tolerance. , 2015, , .		42
14	<title>Silicon planar parabolic lenses</title>. , 2001, 4145, 285.		37
15	Electrostatic parallel-plate actuators with large deflections for use in optical moving-fibre switches. Journal of Micromechanics and Microengineering, 2001, 11, 323-328.	2.6	34
16	Engineering a Compliant Mechanical Amplifier for MEMS Sensor Applications. Journal of Microelectromechanical Systems, 2020, 29, 214-227.	2.5	33
17	Ternary composite Si/TiN/MnO <sub>2</sub> taper nanorod array for on-chip supercapacitor. Electrochimica Acta, 2017, 248, 397-408.	5.2	32
18	Optical fibre switches based on full wafer silicon micromachining. Journal of Micromechanics and Microengineering, 1999, 9, 151-155.	2.6	31

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19	Formation of silicon grass: Nanomasking by carbon clusters in cyclic deep reactive ion etching. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 011002.	1.2	29
20	Coupled U-shaped cantilever actuators for 1 $\mu$ m–4 and 2 $\mu$ m–2 optical fibre switches. <i>Journal of Micromechanics and Microengineering</i> , 2000, 10, 260-264.	2.6	27
21	All-silicon bistable micromechanical fibre switches. <i>Electronics Letters</i> , 1998, 34, 207.	1.0	25
22	Eliminating Single Points of Failure in Software-Based Redundancy. , 2012, , .		25
23	Frequency-Coded mm-Wave Tags for Self-Localization System Using Dielectric Resonators. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 908-925.	2.2	25
24	Chromatic confocal matrix sensor with actuated pinhole arrays. <i>Applied Optics</i> , 2015, 54, 4927.	2.1	24
25	Holographic X-ray optical elements: transition between refraction and diffraction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 982-985.	1.6	23
26	Variation of the intrinsic stress gradient in thin aluminum nitride films. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 095030.	2.6	23
27	Aluminum nitride based 3D, piezoelectric, tactile sensor. <i>Procedia Chemistry</i> , 2009, 1, 144-147.	0.7	22
28	Infrared emitting nanostructures for highly efficient microhotplates. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 035014.	2.6	21
29	dOSEK: the design and implementation of a dependability-oriented static embedded kernel. , 2015, , .		19
30	Micromechanical cantilever resonators with integrated optical interrogation. <i>Sensors and Actuators A: Physical</i> , 1994, 44, 71-75.	4.1	16
31	Nanowire-based electromechanical biomimetic sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 208-211.	2.7	16
32	A Practitioner's Guide to Software-Based Soft-Error Mitigation Using AN-Codes. , 2014, , .		16
33	Hydrophobic coating of microfluidic chips structured by SU-8 polymer for segmented flow operation. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 055019.	2.6	15
34	Cross-Kernel Control-Flow-Graph Analysis for Event-Driven Real-Time Systems. , 2015, , .		14
35	Taper silicon nano-scaffold regulated compact integration of 1D nanocarbons for improved on-chip supercapacitor. <i>Nano Energy</i> , 2017, 41, 618-625.	16.0	14
36	Terahertz Beam Steering Concept Based on a MEMS-Reconfigurable Reflection Grating. <i>Sensors</i> , 2020, 20, 2874.	3.8	14

#	ARTICLE	IF	CITATIONS
37	Bonding of silicon with filled and unfilled polymers based on black silicon. <i>Micro and Nano Letters</i> , 2007, 2, 6.	1.3	13
38	Effectiveness of Fault Detection Mechanisms in Static and Dynamic Operating System Designs. , 2014, , .		13
39	Design and characterization of a resonant triaxial microprobe. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 125011.	2.6	13
40	Global Optimization of Fixed-Priority Real-Time Systems by RTOS-Aware Control-Flow Analysis. <i>Transactions on Embedded Computing Systems</i> , 2017, 16, 1-25.	2.9	13
41	A monolithic micro-optical interferometer deep etched into fused silica. <i>Microelectronic Engineering</i> , 2017, 174, 40-45.	2.4	13
42	Consecutive imprinting performance of large area UV nanoimprint lithography using Bi-layer soft stamps in ambient atmosphere. <i>Microelectronic Engineering</i> , 2017, 176, 62-70.	2.4	13
43	Suspended nanowire web. <i>Applied Physics Letters</i> , 2007, 90, 101504.	3.3	12
44	Highly Selective Guiding Springs for Large Displacements in Surface MEMS. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 597-611.	2.5	12
45	Fibre-optical MEMS switches based on bulk silicon micromachining. <i>Microsystem Technologies</i> , 2003, 9, 299-303.	2.0	11
46	Effectiveness of Software-Based Hardening for Radiation-Induced Soft Errors in Real-Time Operating Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 3-15.	1.3	11
47	MOEMS tunable microlens made of aluminum nitride membranes. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2013, 12, 023012.	0.9	10
48	Semi-contact measurements of three-dimensional surfaces utilizing a resonant uniaxial microprobe. <i>Measurement Science and Technology</i> , 2014, 25, 064012.	2.6	10
49	Multifunctional nanoanalytics and long-range scanning probe microscope using a nanopositioning and nanomeasuring machine. <i>Measurement Science and Technology</i> , 2014, 25, 044006.	2.6	10
50	RF-MEMS-platform based on silicon-ceramic-composite-substrates. , 2015, , .		9
51	A passive microsystem for detecting multiple acceleration events beyond a threshold. <i>Microelectronic Engineering</i> , 2015, 145, 104-111.	2.4	9
52	Highly Anisotropic Fluorine-Based Plasma Etching of Ultralow Expansion Glass. <i>Advanced Engineering Materials</i> , 2021, 23, 2001336.	3.5	9
53	Perspectives of reactive ion etching of silicate glasses for optical microsystems. <i>Journal of Optical Microsystems</i> , 2021, 1, .	1.5	9
54	An electrostatically actuated 1 x 2 moving-fiber switch. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 39-41.	2.5	8

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55	Integration of 3-D cell cultures in fluidic microsystems for biological screenings. Engineering in Life Sciences, 2011, 11, 140-147.	3.6	8
56	Development of a Miniaturized Multisensory Positioning Device for Laser Dicing Technology. Physics Procedia, 2011, 12, 387-395.	1.2	8
57	Quasi-static micromirror with enlarged deflection based on aluminum nitride thin film springs. Sensors and Actuators A: Physical, 2014, 210, 165-174.	4.1	8
58	Deep etching of Zerodur glass ceramics in a fluorine-based plasma. Microelectronic Engineering, 2018, 185-186, 1-8.	2.4	8
59	3-Bit Digital-to-Analog Converter with Mechanical Amplifier for Binary Encoded Large Displacements. Actuators, 2021, 10, 182.	2.3	8
60	Self-sufficient sensor for oxygen detection in packaging via radio-frequency identification. Journal of Sensors and Sensor Systems, 2015, 4, 179-186.	0.9	8
61	Radio Frequency Microelectromechanical System-Platform Based on Silicon-Ceramic Composite Substrates. Journal of Microelectronics and Electronic Packaging, 2015, 12, 37-42.	0.7	8
62	Scanning micromirror for large, quasi-static 2D-deflections based on electrostatic driven rotation of a hemisphere. Sensors and Actuators A: Physical, 2016, 243, 159-166.	4.1	7
63	Surface-Nanostructured Al <sub>2</sub> O <sub>3</sub> /AlN Composite Thin Films with Excellent Broad-Band Antireflection Properties Fabricated by Limited Reactive Sputtering. ACS Applied Nano Materials, 2018, 1, 1124-1130.	5.0	7
64	Design and Fabrication of MEMS Reflectors for THz Reflect-Arrays. , 2021, , .		7
65	A passive acceleration sensor with mechanical 6 bit memory and mechanical analog-to-digital converter. Micro and Nano Engineering, 2022, 15, 100142.	2.9	7
66	Silicon planar refractive lenses with the optimized design. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 131-134.	1.6	6
67	A modular BioMEMS platform for new procedures and experiments in tissue engineering. Journal of Micromechanics and Microengineering, 2009, 19, 074013.	2.6	6
68	Tunable compound eye cameras. , 2010, , .		6
69	Multi-technology design of an integrated MEMS-based RF oscillator using a novel silicon-ceramic compound substrate. , 2015, , .		6
70	Compact low phase-noise MEMS-based RF oscillator on a dedicated silicon-ceramic composite substrate. , 2016, , .		6
71	Evaluation of a multiphysical RF MEMS oscillator based on LTE receiver performance requirements. , 2016, , .		6
72	EWOD system designed for optical switching. , 2017, , .		6

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73	Deep etched and released microstructures in Zerodur in a fluorine-based plasma. Microelectronic Engineering, 2018, 198, 78-84.	2.4	6
74	Discrete Similariton and Dissipative Soliton Modelocking for Energy Scaling Ultrafast Thin-Disk Laser Oscillators. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-12.	2.9	6
75	An Analytical Temperature-Dependent Design Model for Contour-Mode MEMS Resonators and Oscillators Verified by Measurements. Sensors, 2018, 18, 2159.	3.8	6
76	Integrated soft UV-nanoimprint lithography in a nanopositioning and nanomeasuring machine for accurate positioning of stamp to substrate. , 2019, , .		6
77	A JVM for soft-error-prone embedded systems. , 2013, , .		6
78	Systematic Characterization of Embossing Processes for LTCC Tapes. Journal of Microelectronics and Electronic Packaging, 2008, 5, 142-149.	0.7	6
79	New silicon-based fibre assemblies for applications in integrated optics and optical MEMS. Applied Physics B: Lasers and Optics, 2001, 73, 629-633.	2.2	5
80	dOSEK: A Dependable RTOS for Automotive Applications. , 2013, , .		5
81	Resonant probing system comprising a high accurate uniaxial nanoprobe and a new evaluation unit. Journal of Micromechanics and Microengineering, 2013, 23, 095012.	2.6	5
82	Online monitoring of the passivation breakthrough during deep reactive ion etching of silicon using optical plasma emission spectroscopy. Journal of Micromechanics and Microengineering, 2013, 23, 074001.	2.6	5
83	Electrostatic parallel-plate MEMS switch on silicon-ceramic-composite-substrates. , 2015, , .		5
84	Novel Approaches Towards Highly Selective Self-Powered Gas Sensors. Procedia Engineering, 2015, 120, 623-627.	1.2	5
85	Linearized control of an uniaxial micromirror with electrostatic parallel-plate actuation. Microsystem Technologies, 2016, 22, 441-447.	2.0	5
86	Low-cost fabrication of nanoimprint templates with tunable feature sizes at a constant pitch. Microelectronic Engineering, 2017, 170, 34-38.	2.4	5
87	FDTS as Dewetting Coating for an Electrowetting Controlled Silicon Photonic Switch. IEEE Photonics Technology Letters, 2018, 30, 2005-2008.	2.5	5
88	Silicon-Ceramic Composite Substrate: A Promising RF Platform for Heterogeneous Integration. IEEE Microwave Magazine, 2019, 20, 28-43.	0.8	5
89	Frequency Coded Retroreflective Landmark for 230 GHz Indoor Self-Localization Systems. , 2021, , .		5
90	Miniaturized Embossed Low Resistance Fine Line Coils in LTCC. Journal of Microelectronics and Electronic Packaging, 2009, 6, 42-48.	0.7	5

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91	Fiber ribbon alignment structures based on rhombus-shaped channels in silicon. IEEE Photonics Technology Letters, 2000, 12, 828-830.	2.5	4
92	Tunable refractive beam steering using aluminum nitride thermal actuators. , 2011, , .		4
93	AlN-based piezoelectric bimorph microgenerator utilizing low-level non-resonant excitation. Proceedings of SPIE, 2011, , .	0.8	4
94	Tunable cylindrical microlenses based on aluminum nitride membranes. , 2013, , .		4
95	Hybrid-integrated RF MEMS-based reference oscillator using a silicon-ceramic composite substrate. , 2016, , .		4
96	The NanoTuFe â€” Fabrication of large area periodic nanopatterns with tunable feature sizes at low cost. Microelectronic Engineering, 2017, 180, 71-80.	2.4	4
97	A microoptical sidestream cuvette based on fast passive gas exchange for capnography. Sensors and Actuators A: Physical, 2018, 276, 68-75.	4.1	4
98	A Micromechanical Binary Counter with MEMS-Based Digital-to-Analog Converter. Proceedings (mdpi), 2018, 2, .	0.2	4
99	A Multi-Frequency MEMS-Based RF Oscillator Covering the Range from 11.7 MHz to 1.9 GHz. , 2018, , .		4
100	Image inverting, topography and feature size manipulation using organic/inorganic bi-layer lift-off for nanoimprint template. Microelectronic Engineering, 2018, 197, 39-44.	2.4	4
101	Design and Characterization of an Electrostatic Constant-Force Actuator Based on a Non-Linear Spring System. Actuators, 2021, 10, 192.	2.3	4
102	Design, fabrication and characterisation of a microfluidic time-temperature indicator. Journal of Physics: Conference Series, 2017, 922, 012004.	0.4	4
103	Large Stepwise Discrete Microsystem Displacements Based on Electrostatic Bending Plate Actuation. Actuators, 2021, 10, 272.	2.3	4
104	Growth of silicon nanowires on UV-structurable glass using self-organized nucleation centres. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 40-43.	2.7	3
105	Freeform characterization based on nanostructured diffraction gratings. Applied Optics, 2018, 57, 3808.	1.8	3
106	Design and implementation of a MEMS-based RF oscillator on a unique silicon-ceramic composite substrate. , 2018, , .		3
107	How to Defeat Electric Noise in Measurement Acquisition Using a Micromechanical Analog-to-Digital Converter. , 2019, , .		3
108	Micromechanical Reflect-Array for THz Radar Beam Steering based on a Mechanical D/A Converter and a Mechanical Amplifier. , 2020, , .		3

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109	Advanced phase plates for confocal hyperspectral imaging systems. , 2013, , .		3
110	Proof of concept for energy harvesting using piezoelectric microstructures for intelligent implants using eye-motion classified with the Integrated Eyetracker. IFMBE Proceedings, 2013, , 1397-1400.	0.3	3
111	Sub-THz Luneburg lens enabled wide-angle frequency-coded identification tag for passive indoor self-localization. International Journal of Microwave and Wireless Technologies, 2023, 15, 59-73.	1.9	3
112	Megasonic enhanced KOH etching for {110} silicon bulk micromachining. , 2004, 5602, 27.		2
113	Non-electrical-power temperature-time integrating sensor for RFID based on microfluidics. Proceedings of SPIE, 2011, , .	0.8	2
114	Planar plano-convex microlens in silica using ICP-CVD and DRIE. Proceedings of SPIE, 2012, , .	0.8	2
115	Imaging Systems with Aspherically Tunable Micro-optical Elements. , 2013, , .		2
116	Passive microsensor for binary counting of numerous threshold events. Proceedings of SPIE, 2015, , .	0.8	2
117	Linear micromechanical stepping drive for pinhole array positioning. Journal of Micromechanics and Microengineering, 2015, 25, 055009.	2.6	2
118	Material Dependence of the Contact Behavior of Oscillating Microprobesâ€”Modeling and Experimental Evidence. Journal of Micro and Nano-Manufacturing, 2017, 5, .	0.7	2
119	Electrowetting Controlled Non-Volatile Integrated Optical Switch. , 2018, , .		2
120	Investigation of ScAlN for piezoelectric and ferroelectric applications. , 2019, , .		2
121	DRIE Si Nanowire Arrays Supported Nano-Carbon Film for Deriving High Specific Energy Supercapacitors On-Chip. Journal of Physics: Conference Series, 2021, 1837, 012005.	0.4	2
122	Development and Implementation of a Rotating Nanoimprint Lithography Tool for Orthogonal Imprinting on Edges of Curved Surfaces. Nanomanufacturing and Metrology, 2021, 4, 175-180.	3.0	2
123	Microsystems for the Characterization of 3D-ECM Analogous Bio-Interfaces. IFMBE Proceedings, 2009, , 94-97.	0.3	2
124	Configuration of a MEMS-based Terahertz Reflectarray Using a Genetic Algorithm. , 2021, , .		2
125	Parameter Identification on Wafer Level of Membrane Structures. , 2007, , .		1
126	Aluminum nitride supported 1D micromirror with static rotation angle $\approx 11^\circ$ . Proceedings of SPIE, 2013, , .	0.8	1



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127	Linear stepping microactuator for hyperspectral systems. , 2014, , .		1
128	Non-electrical Sensing and Storing an Alternative to Electrical Energy Harvesting. Procedia Engineering, 2016, 168, 1621-1625.	1.2	1
129	Stress-modulated tilt actuator for tunable optical prisms. Sensors and Actuators A: Physical, 2017, 266, 328-337.	4.1	1
130	Multiphysical design of compact RF modules on a silicon-ceramics substrate. , 2018, , .		1
131	Highly Integrated RF-MEMS Multi-Frequency Oscillator on a Silicon-Ceramic Composite Substrate. , 2019, , .		1
132	Direct Binary Encoding of Displacements on the Nano-Scale. , 2020, , .		1
133	<title>Latching-type 2x2 and 1x4 fiber-optic switches</title>. , 2000, , .		0
134	Electrostatically actuated moving-fibre switch. , 0, , .		0
135	An Overview of the Workshop "Optical MEMS and Integrated Optics", Dortmund, 11th - 12th June 2001. Microsystem Technologies, 2003, 9, 285-285.	2.0	0
136	Techniques in the Design and Fabrication of Optical MEMS Switches and their Application in Optical Communication Systems. , 2006, , 1508-1586.		0
137	3D-fibre channels in silicon by electrical breakdown"New opportunities for optical fibre alignment and microfluidics. AEU - International Journal of Electronics and Communications, 2007, 61, 172-176.	2.9	0
138	Investigation of nano-patterned PZT thin films by piezoresponse force microscopy. , 2010, , .		0
139	Airborne particle generation for optical tweezers by thermo-mechanical membrane actuators. Proceedings of SPIE, 2011, , .	0.8	0
140	Optical scanners based on thermo-optical tuning of an integrated-optical waveguide mode. Proceedings of SPIE, 2013, , .	0.8	0
141	Selected papers from the 23rd MicroMechanics and Microsystems Europe Workshop (MME 2012) (Ilmenau, Germany, September 9â€“12, 2012). Journal of Micromechanics and Microengineering, 2013, 23, 070201.	2.6	0
142	Tunable anamorphic imaging system based on fluidic cylindrical lenses. , 2014, , .		0
143	Compact hyperchromatic imaging systems based on tunable optical microsystems. , 2014, , .		0
144	2D stepping drive for hyperspectral systems. Journal of Micromechanics and Microengineering, 2015, 25, 074002.	2.6	0

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145	2D stepping microdrive for hyperspectral imaging. , 2015, , .		0
146	Micro-Venturi injector: design, experimental and simulative examination. Journal of Physics: Conference Series, 2016, 757, 012027.	0.4	0
147	Process flow to integrate nanostructures on silicon grass in surface micromachined systems. Journal of Physics: Conference Series, 2016, 757, 012022.	0.4	0
148	MEMS gas ionization sensor with palladium nanostructures for use at ambient pressure. Journal of Physics: Conference Series, 2016, 757, 012023.	0.4	0
149	Application of nanostructuring, nanomaterials and micro-nano-integration for improved components and system's performance. , 2016, , .		0
150	Experiences with software-based soft-error mitigation using AN codes. Software Quality Journal, 2016, 24, 87-113.	2.2	0
151	Silicon grass based nano functional electrodes for MEMS supercapacitors of improved energy density. , 2017, , .		0
152	Active pore for sensor protection: A PNIPAM based micro valve in LTCC. , 2017, , .		0
153	Numerical model of a passive microsystem detecting and saving independent acceleration shocks. Journal of Physics: Conference Series, 2017, 922, 012008.	0.4	0
154	An Analytical Formulation of the Radio-Frequency Response of Piezoelectric Contour-Mode MEMS Resonators Verified by Measurements. , 2018, , .		0
155	Cross-Hierarchical Design of Compact RF-MEMS Oscillator Circuits on a Silicon-Ceramic Composite Substrate. , 2019, , .		0
156	Comparison of Deep Etched Borosilicate Glasses in a Fluorine Based Plasma. , 2019, , .		0
157	dOSEK: Maßgeschneiderte Zuverlässigkeit. Informatik Aktuell, 2015, , 69-78.	0.6	0
158	A Fabrication Process for Nanopatterns Shrinkage with Variable Sizes for Large Area. , 0, , .		0
159	Dependability Aspects in Configurable Embedded Operating Systems. Embedded Systems, 2021, , 85-116.	0.6	0
160	Advanced broadband MEMS infrared emitter based on high-temperature-resistant nanostructured surfaces and packaging solutions for harsh environments. , 2020, , .		0
161	Tracing the Force-Displacement Characteristics of Non-Linear Microsystems by In-Situ Characterization. , 2022, , .		0
162	Modeling and Control Design of a Contact-Based, Electrostatically Actuated Rotating Sphere. Actuators, 2022, 11, 90.	2.3	0