

Eric M Yeatman

List of Publications by Year in descending order

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179
papers

7,919
citations

94269

37
h-index

54797

84
g-index

187
all docs

187
docs citations

187
times ranked

5339
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Harvesting From Human and Machine Motion for Wireless Electronic Devices. Proceedings of the IEEE, 2008, 96, 1457-1486.	16.4	1,522
2	Architectures for Vibration-Driven Micropower Generators. Journal of Microelectromechanical Systems, 2004, 13, 429-440.	1.7	594
3	MEMS electrostatic micropower generator for low frequency operation. Sensors and Actuators A: Physical, 2004, 115, 523-529.	2.0	539
4	Surface tension-powered self-assembly of microstructures - The state-of-the-art. Journal of Microelectromechanical Systems, 2003, 12, 387-417.	1.7	289
5	A piezoelectric frequency up-converting energy harvester with rotating proof mass for human body applications. Sensors and Actuators A: Physical, 2014, 206, 178-185.	2.0	279
6	Sol-gel silica/titania-on-silicon Er/Yb-doped waveguides for optical amplification at 1.5 μ m. Optical Materials, 1999, 12, 1-18.	1.7	263
7	Power-Extraction Circuits for Piezoelectric Energy Harvesters in Miniature and Low-Power Applications. IEEE Transactions on Power Electronics, 2012, 27, 4514-4529.	5.4	198
8	Hybrid energy harvesting technology: From materials, structural design, system integration to applications. Renewable and Sustainable Energy Reviews, 2021, 137, 110473.	8.2	185
9	Rotational energy harvesting using bi-stability and frequency up-conversion for low-power sensing applications: Theoretical modelling and experimental validation. Mechanical Systems and Signal Processing, 2019, 125, 229-244.	4.4	181
10	Optimization of inertial micropower Generators for human walking motion. IEEE Sensors Journal, 2006, 6, 28-38.	2.4	172
11	Rotational energy harvesting for self-powered sensing. Joule, 2021, 5, 1074-1118.	11.7	172
12	Mems inertial power generators for biomedical applications. Microsystem Technologies, 2006, 12, 1079-1083.	1.2	171
13	A methodology for low-speed broadband rotational energy harvesting using piezoelectric transduction and frequency up-conversion. Energy, 2017, 125, 152-161.	4.5	160
14	Resolution and sensitivity in surface plasmon microscopy and sensing. Biosensors and Bioelectronics, 1996, 11, 635-649.	5.3	148
15	Ultrasonic vs. Inductive Power Delivery for Miniature Biomedical Implants. , 2010, , .		131
16	Power processing circuits for electromagnetic, electrostatic and piezoelectric inertial energy scavengers. Microsystem Technologies, 2007, 13, 1629-1635.	1.2	123
17	Performance limits of the three MEMS inertial energy generator transduction types. Journal of Micromechanics and Microengineering, 2007, 17, S211-S216.	1.5	102
18	Demonstration of three-dimensional microstructure self-assembly. Journal of Microelectromechanical Systems, 1995, 4, 170-176.	1.7	90

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19	A scalable piezoelectric impulse-excited energy harvester for human body excitation. Smart Materials and Structures, 2012, 21, 115018.	1.8	88
20	Design and Fabrication of Heat Storage Thermoelectric Harvesting Devices. IEEE Transactions on Industrial Electronics, 2014, 61, 302-309.	5.2	87
21	Self-assembly of three-dimensional microstructures using rotation by surface tension forces. Electronics Letters, 1993, 29, 662.	0.5	83
22	Microscale electrostatic energy harvester using internal impacts. Journal of Intelligent Material Systems and Structures, 2012, 23, 1409-1421.	1.4	72
23	Effects of H ₂ O on structure of acid-catalysed SiO ₂ sol-gel films. Journal of Non-Crystalline Solids, 1995, 183, 260-267.	1.5	69
24	Multiplexed immunosensors for point-of-care diagnostic applications. Biosensors and Bioelectronics, 2022, 203, 114050.	5.3	69
25	Optical gain in Er-doped SiO ₂ /TiO ₂ waveguides fabricated by the sol-gel technique. Optics Communications, 1999, 164, 19-25.	1.0	63
26	A 1-D Photonic Band Gap Tunable Optical Filter in (110) Silicon. Journal of Microelectromechanical Systems, 2007, 16, 521-527.	1.7	60
27	Experimental passive self-tuning behavior of a beam resonator with sliding proof mass. Journal of Sound and Vibration, 2013, 332, 7142-7152.	2.1	60
28	Fiber-device-fiber gain from a sol-gel erbium-doped waveguide amplifier. IEEE Photonics Technology Letters, 2002, 14, 959-961.	1.3	58
29	A continuously rotating energy harvester with maximum power point tracking. Journal of Micromechanics and Microengineering, 2008, 18, 104008.	1.5	58
30	Electrostatic Microgenerators. Measurement and Control, 2008, 41, 114-119.	0.9	57
31	Converter circuit design, semiconductor device selection and analysis of parasitics for micropower electrostatic Generators. IEEE Transactions on Power Electronics, 2006, 21, 27-37.	5.4	54
32	Rolling Rod Electrostatic Microgenerator. IEEE Transactions on Industrial Electronics, 2009, 56, 1101-1108.	5.2	52
33	Sol-Gel Fabrication of Rare-Earth Doped Photonic Components. Journal of Sol-Gel Science and Technology, 2000, 19, 231-236.	1.1	50
34	Fabrication, RF characteristics and mechanical stability of self-assembled 3D microwave inductors. Sensors and Actuators A: Physical, 2002, 97-98, 215-220.	2.0	49
35	Surface-plasmon spatial light modulators based on liquid crystal. Applied Optics, 1992, 31, 3880.	2.1	42
36	A miniaturized piezoelectric turbine with self-regulation for increased air speed range. Applied Physics Letters, 2015, 107, .	1.5	42

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37	Characterisation of microporous sol-gel films for optical device applications. Journal of Sol-Gel Science and Technology, 1994, 2, 711-715.	1.1	39
38	A MEMS Self-Powered Sensor and RF Transmission Platform for WSN Nodes. IEEE Sensors Journal, 2011, 11, 3437-3445.	2.4	37
39	Urban Sensor Data Streams: London 2013. IEEE Internet Computing, 2013, 17, 12-20.	3.2	34
40	High Q microwave inductors on silicon by surface tension self-assembly. Electronics Letters, 2000, 36, 1707.	0.5	33
41	Acoustic power delivery to pipeline monitoring wireless sensors. Ultrasonics, 2017, 77, 54-60.	2.1	32
42	Magnetic tuning of a kinetic energy harvester using variable reluctance. Sensors and Actuators A: Physical, 2013, 189, 266-275.	2.0	30
43	Clinical detection of neurodegenerative blood biomarkers using graphene immunosensor. Carbon, 2020, 168, 144-162.	5.4	30
44	Flexible substrate electrostatic energy harvester. Electronics Letters, 2010, 46, 166.	0.5	29
45	Materials and techniques for energy harvesting. , 2012, , 541-572.		29
46	Low-loss one-dimensional photonic bandgap filter in (110) silicon. Optics Letters, 2006, 31, 395.	1.7	28
47	Multilevel amplitude shift keying in dispersion uncompensated optical systems. IEE Proceedings: Optoelectronics, 2006, 153, 101-108.	0.8	28
48	MEMS high Q microwave inductors using solder surface tension self-assembly. , 0, , .		27
49	Micro Motion Amplificationâ€“A Review. IEEE Access, 2020, 8, 64037-64055.	2.6	27
50	Energy-autonomous sensing systems using drones. , 2017, , .		26
51	Piezoelectric wind velocity sensor based on the variation of galloping frequency with drag force. Applied Physics Letters, 2020, 116, .	1.5	26
52	Spatial light modulation using surface plasmon resonance. Applied Physics Letters, 1989, 55, 613-615.	1.5	25
53	Strip-Loaded High-Confinement Waveguides for Photonic Applications. Journal of Sol-Gel Science and Technology, 1998, 13, 517-521.	1.1	25
54	Wireless power transfer system for a human motion energy harvester. Sensors and Actuators A: Physical, 2016, 244, 77-85.	2.0	25

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55	Spatially Precise Transfer of Patterned Monolayer WS ₂ and MoS ₂ with Features Larger than 10 ⁴ μm ² Directly from Multilayer Sources. ACS Applied Electronic Materials, 2019, 1, 407-416.	2.0	23
56	Wideband excitation of an electrostatic vibration energy harvester with power-extracting end-stops. Smart Materials and Structures, 2013, 22, 075020.	1.8	22
57	Real-time optical monitoring of spin coating. Journal De Physique III, 1993, 3, 2059-2063.	0.3	21
58	MEMS Energy Harvesting Powered Wireless Biometric Sensor. , 2009, , .		21
59	A comparative review of artificial muscles for microsystem applications. Microsystems and Nanoengineering, 2021, 7, 95.	3.4	21
60	Strip-Loaded Sol-Gel Waveguides: Design and Fabrication. Fiber and Integrated Optics, 2001, 20, 29-43.	1.7	20
61	Performance of phase change materials for heat storage thermoelectric harvesting. Applied Physics Letters, 2013, 103, .	1.5	19
62	Coupling of piezo- and pyro-electric effects in miniature thermal energy harvesters. Applied Energy, 2020, 262, 114496.	5.1	19
63	Growth and characterization of semiconductor nanoparticles in porous sol-gel films. Journal of Materials Research, 1997, 12, 3115-3126.	1.2	18
64	Effective piezoelectric energy harvesting using beam plucking and a synchronized switch harvesting circuit. Smart Materials and Structures, 2018, 27, 084003.	1.8	18
65	Laterally Actuated, Low Voltage, 3-Port RF MEMS Switch. , 0, , .		16
66	Energy scavenging for wireless sensor nodes. , 2007, , .		16
67	A dual polarity, cold-starting interface circuit for heat storage energy harvesters. Sensors and Actuators A: Physical, 2014, 211, 38-44.	2.0	16
68	Opportunities for Sensing Systems in Mining. IEEE Transactions on Industrial Informatics, 2017, 13, 278-286.	7.2	16
69	Comparison and Scaling Effects of Rotational Micro-Generators using Electromagnetic and Piezoelectric Transduction. Energy Technology, 2018, 6, 2220-2231.	1.8	16
70	Exploring coupled electromechanical nonlinearities for broadband energy harvesting from low-frequency rotational sources. Smart Materials and Structures, 2019, 28, 075001.	1.8	16
71	A Flexible, Low-Power Platform for UAV-Based Data Collection From Remote Sensors. IEEE Access, 2020, 8, 164775-164785.	2.6	16
72	Anthropomorphic Dual-Arm Coordinated Control for a Single-Port Surgical Robot Based on Dual-Step Optimization. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 72-84.	2.1	16

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73	Stepwise Microactuators Powered by Ultrasonic Transfer. <i>Procedia Engineering</i> , 2011, 25, 685-688.	1.2	15
74	Footstep energy harvesting using heel strike-induced airflow for human activity sensing. , 2016, , .		15
75	Surface Plasmon Scanning Microscopy. <i>Proceedings of SPIE</i> , 1988, 0897, 100.	0.8	14
76	Characterization and Modeling of Nonlinearities in In-Plane Gap Closing Electrostatic Energy Harvester. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 2071-2082.	1.7	14
77	Modular Software-Defined Radio Testbed for Rapid Prototyping of Localization Algorithms. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1577-1584.	2.4	14
78	Deep Reinforcement Learning-Based Control Framework for Multilateral Telesurgery. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 352-355.	2.1	14
79	Applications of MEMS in power sources and circuits. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, S184-S188.	1.5	13
80	Micro-Engineered Devices for Motion Energy Harvesting. , 2007, , .		13
81	A Motion-Powered Piezoelectric Pulse Generator for Wireless Sensing via FM Transmission. <i>IEEE Internet of Things Journal</i> , 2015, 2, 5-13.	5.5	13
82	Three-Dimensional Printed Insulation For Dynamic Thermoelectric Harvesters With Encapsulated Phase Change Materials. , 2017, 1, 1-4.		13
83	High Q Achieved in Microwave Inductors Fabricated by Parallel Self-Assembly. , 2001, , 1070-1073.		13
84	Use of Scanned Detection in Optical Position Encoders. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2004, 53, 37-44.	2.4	12
85	Microengineered Electrically Resettable Circuit Breaker. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 887-894.	1.7	12
86	Stable zipping RF MEMS varactors. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 035030.	1.5	12
87	Efficient and Reliable Aerial Communication With Wireless Sensors. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9000-9011.	5.5	11
88	Task-Based LSTM Kinematic Modeling for a Tendon-Driven Flexible Surgical Robot. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 339-342.	2.1	11
89	Fabrication and characterisation of a CdS-doped silica-on-silicon planar waveguide. <i>IEE Proceedings: Optoelectronics</i> , 1996, 143, 298-302.	0.8	10
90	Spinning deposition of silica and silica-titania optical coatings: A round robin test. <i>Journal of Materials Research</i> , 1998, 13, 731-738.	1.2	10

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91	Molecular homogeneity in erbium-doped sol-gel waveguide amplifiers. IEEE Journal of Quantum Electronics, 2004, 40, 805-814.	1.0	10
92	Free-space MEMS tunable optical filter on [110] silicon. , 0, , .		10
93	A Novel Training and Collaboration Integrated Framework for Human-Agent Teleoperation. Sensors, 2021, 21, 8341.	2.1	10
94	Optical monitoring of the sol-to-gel transition in spinning silica films. , 1994, , .		9
95	Multilayer SiO ₂ -B ₂ O ₃ -Na ₂ O Films on Si for Optical Applications. Journal of Sol-Gel Science and Technology, 1998, 13, 783-787.	1.1	9
96	Laser transfer of sol-gel ferroelectric thin films using an ITO release layer. Microelectronic Engineering, 2011, 88, 145-149.	1.1	9
97	Effects of nonconstant coupling through nonlinear magnetics in electromagnetic vibration energy harvesters. Journal of Intelligent Material Systems and Structures, 2012, 23, 1533-1541.	1.4	9
98	Micromechanical Actuators Driven by Ultrasonic Power Transfer. Journal of Microelectromechanical Systems, 2014, 23, 750-759.	1.7	9
99	Protection of Electronics from Environmental Temperature Spikes by Phase Change Materials. Journal of Electronic Materials, 2015, 44, 4589-4594.	1.0	9
100	RF MEMS Zipping Varactor With High Quality Factor and Very Large Tuning Range. IEEE Electron Device Letters, 2016, 37, 1340-1343.	2.2	9
101	Power Supply Based on Inductive Harvesting From Structural Currents. IEEE Internet of Things Journal, 2022, 9, 7166-7177.	5.5	9
102	Optimal Dynamic Recharge Scheduling for Two-Stage Wireless Power Transfer. IEEE Transactions on Industrial Informatics, 2021, 17, 5719-5729.	7.2	9
103	Optimization of Surgical Robotic Instrument Mounting in a Macro-Micro Manipulator Setup for Improving Task Execution. IEEE Transactions on Robotics, 2022, 38, 2858-2874.	7.3	9
104	Dual numerical aperture confocal operation of moving fibre bar code reader. Electronics Letters, 1999, 35, 1656.	0.5	8
105	Rotating and Gyroscopic MEMS Energy Scavenging. , 0, , .		8
106	MEMS energy harvester for wireless biosensors. , 2010, , .		8
107	Dual-arm Coordinated Manipulation for Object Twisting with Human Intelligence. , 2021, , .		8
108	Augmented Neural Network for Full Robot Kinematic Modelling in SE(3). IEEE Robotics and Automation Letters, 2022, 7, 7140-7147.	3.3	8

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109	Model Learning With Backlash Compensation for a Tendon-Driven Surgical Robot. IEEE Robotics and Automation Letters, 2022, 7, 7958-7965.	3.3	8
110	Performance characteristics of surface plasmon liquid crystal light valve. Electronics Letters, 1991, 27, 1471.	0.5	7
111	Doped sol-gel films for silica-on-silicon photonic components. Journal of Sol-Gel Science and Technology, 1997, 8, 1007-1011.	1.1	7
112	Optical Viscometry of Spinning Sol Coatings. Journal of Sol-Gel Science and Technology, 1998, 13, 707-712.	1.1	7
113	Microwave characteristics of meander inductors fabricated by 3D self-assembly. , 0, , .		7
114	Power processing issues for micro-power electrostatic generators. , 0, , .		7
115	Performance evaluation of optical DQPSK using saddle point approximation. Journal of Lightwave Technology, 2006, 24, 1176-1185.	2.7	7
116	Stress in electroplated gold on silicon substrates and its dependence on cathode agitation. Microelectronic Engineering, 2013, 112, 21-26.	1.1	7
117	Broadband rotational energy harvesting using bistable mechanism and frequency up-conversion. , 2017, , .		7
118	Kinematic Parameter Optimization of a Miniaturized Surgical Instrument Based on Dexterous Workspace Determination. , 2021, , .		7
119	3D Printability Assessment of Poly(octamethylene maleate (anhydride) citrate) and Poly(ethylene Terephthalate) for Overlaid Printing. Journal of Manufacturing Processes, 2021, 31, 5457-5470.	0.784314	7
120	Selective-area doping of porous solgel films for integrated optics. Optics Letters, 1997, 22, 1864.	1.7	6
121	Design and performance analysis of thermally actuated MEMS circuit breakers. Journal of Micromechanics and Microengineering, 2005, 15, S109-S115.	1.5	6
122	Battery-less microdevices for Body Sensor/Actuator networks. , 2013, , .		6
123	A novel protocol for data links between wireless sensors and UAV based sink nodes. , 2018, , .		6
124	Broadband Vibration Energy Harvesting from Underground Trains for Self-Powered Condition Monitoring. , 2019, , .		6
125	Micromechanics for energy generation. Journal of Micromechanics and Microengineering, 2021, 31, 114003.	1.5	6
126	Energy Harvesting and Power Delivery. , 2014, , 237-272.		5

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127	Thermal Energy Harvesting Using Pyroelectric and Piezoelectric Effect. Journal of Physics: Conference Series, 2016, 773, 012073.	0.3	5
128	Modeling signal and ASE evolution in erbium-doped amplifiers with the method of lines. Journal of Lightwave Technology, 2006, 24, 1589-1600.	2.7	4
129	Energy harvesting: small scale energy production from ambient sources. , 2009, , .		4
130	Piezoelectric Rotational Energy Harvester for Body Sensors Using an Oscillating Mass. , 2012, , .		4
131	Inductive Power Delivery with Acoustic Distribution to Wireless Sensors. , 2019, , .		4
132	Energy Scavenging. , 2006, , 183-217.		4
133	GlobDesOpt: A Global Optimization Framework for Optimal Robot Manipulator Design. IEEE Access, 2022, 10, 5012-5023.	2.6	4
134	Control of Dopant Adsorption from Aqueous Solution into Nanoporous Sol-Gel Films. Journal of Sol-Gel Science and Technology, 1998, 13, 579-584.	1.1	3
135	Experimental Validation of a Piezoelectric Frequency Up-Converting Rotational Harvester. , 2014, , .		3
136	Introduction to the special topic on nanomanufacturing. Microsystems and Nanoengineering, 2017, 3, 17079.	3.4	3
137	Radio Diversity for Heterogeneous Communication with Wireless Sensors. , 2019, , .		3
138	Nonlinear Wind Energy Harvesting Based on Mechanical Synchronous Switch Harvesting on Inductor. , 2021, , .		3
139	Towards a Functional Atraumatic Selfâ€šhaping Cochlear Implant. Macromolecular Materials and Engineering, 2022, 307, 2100620.	1.7	3
140	Optimization for Interval Type-2 Polynomial Fuzzy Systems: A Deep Reinforcement Learning Approach. IEEE Transactions on Artificial Intelligence, 2023, 4, 1269-1280.	3.4	3
141	Optimal transverse mode control of waveguide array lasers by discrete transform techniques. Electronics Letters, 1991, 27, 1461.	0.5	2
142	Porous films for nonlinear silica-on-silicon integrated optics. , 1994, 2288, 77.		2
143	Piezoelectric films in silicon-based microactuation structures. , 1995, , .		2
144	<title>Real-time interferometric analysis of spinning liquid films</title>. , 1996, 2861, 164.		2

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145	Sol-gel fabrication for optical communication components: prospects and progress. , 1997, 10290, 119.		2
146	Low Loss Tunable Optical Filter using Silicon Photonic Band Gap Mirrors. , 2007, , .		2
147	Die-level integration of metal MEMS with CMOS. , 2008, , .		2
148	Self-assembly of three-dimensional Au inductors on silicon. IET Microwaves, Antennas and Propagation, 2010, 4, 1698.	0.7	2
149	Transfer of Functional Ceramic Thin Films Using a Thermal Release Process. Advanced Materials, 2011, 23, 1252-1256.	11.1	2
150	A piezoelectric pulse generator for low frequency non-harmonic vibration. Journal of Physics: Conference Series, 2013, 476, 012059.	0.3	2
151	Introduction to Micro Energy Harvesting. Advanced Micro & Nanosystems, 2015, , 1-5.	0.2	2
152	A non-harmonic motion-powered piezoelectric FM wireless sensing system. , 2015, , .		2
153	Plasmonic optical fiber for bacteria manipulation” characterization and visualization of accumulation behavior under plasmothermal trapping. Biomedical Optics Express, 2021, 12, 3917.	1.5	2
154	Surface Plasmon Spatial Light Modulators. , 1990, , .		1
155	Optical layout for single-transverse-mode operation of 2-D arrays of vertical cavity surface-emitting lasers. Electronics Letters, 1991, 27, 349.	0.5	1
156	An integrated optical technology based on sol-gel glasses on silicon: the NODES project. , 0, , .		1
157	<title>Strip-loaded sol-gel waveguides for optical amplifiers</title>. , 1999, , .		1
158	Performance of 4-ary ASK for optical communication systems in dispersive, nonlinear environments. , 0, , .		1
159	Multilayered Waveguides for Increasing the Gain Bandwidth of Integrated Amplifiers. Journal of Lightwave Technology, 2007, 25, 1613-1620.	2.7	1
160	Non-resonant electrostatic energy harvesting from a rolling mass. , 2008, , .		1
161	Non-mechanical sub-pixel image shifter for acquiring super-resolution digital images. Optics Express, 2009, 17, 22992.	1.7	1
162	Harvesting energy from aircraft power lines. , 2013, , .		1

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163	A Piezoelectric Pulse Generator and FM Transmission Circuit for Self-Powered BSN Nodes. , 2014, , .		1
164	A dynamic regulating mechanism for increased airflow speed range in micro piezoelectric turbines. , 2016, , .		1
165	Energy Harvesting Piezoelectric Wind Speed Sensor. Journal of Physics: Conference Series, 2019, 1407, 012044.	0.3	1
166	A Bistable Energy Harvester for Self-Powered Sensing in Rail Transport Condition Monitoring. , 2021, , .		1
167	Interrogation and Charging of Embedded Sensors by Autonomous Vehicles. , 2021, , .		1
168	Ellipsometry of Sol-Gel Films. , 2016, , 1-11.		1
169	Ellipsometry of Sol-Gel Films. , 2018, , 1595-1605.		1
170	Approaches to Self-Powered Biochemical Sensors for In-Vivo Applications. , 2008, , .		1
171	<title>Optically addressed surface plasmon spatial light modulators</title>. , 1990, , .		1
172	Computerized Surface Plasmon Microscopy. Proceedings of SPIE, 1989, , .	0.8	0
173	<title>Recent advances in surface plasmon spatial light modulators</title>. , 1991, 1505, 50.		0
174	Doped Sol-Gel Films for Silica-on-Silicon Photonic Components. Journal of Sol-Gel Science and Technology, 1997, 8, 1007-1011.	1.1	0
175	Mechanical noise induced by acceleration or acoustic disturbances in MEMS microwave inductors. , 0, , .		0
176	Investigation of the spectral advantages of sol-gel layered erbium doped waveguide amplifiers. , 0, , .		0
177	High-Q continuously tunable zipping varactors with large tuning range. , 2008, , .		0
178	Solder transfer of lead zirconate titanate (PZT) thin films. , 2010, , .		0
179	Hybridized thermal energy harvesting mechanism. Journal of Physics: Conference Series, 2019, 1407, 012038.	0.3	0