

Marc P Y Desmulliez

List of Publications by Year in descending order

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197
papers

3,218
citations

201385

27
h-index

189595

50
g-index

199
all docs

199
docs citations

199
times ranked

4183
citing authors

#	ARTICLE	IF	CITATIONS
1	A Methodology for Remote Microwave Sterilization Applicable to the Coronavirus and Other Pathogens Using Retrodirective Antenna Arrays. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 41-51.	2.3	5
2	On the Use of Acoustic Methods for the Detection of Electrostatic Capture of Diaphragm in Capacitive MEMS Microphones. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 454-461.	1.4	0
3	Biosensors for the detection of waterborne pathogens. , 2021, , 189-235.		4
4	Bandpass sorting of heterogeneous cells using a single surface acoustic wave transducer pair. Biomicrofluidics, 2021, 15, 014105.	1.2	7
5	Investigation Into Low Frequency Response of Acoustic MEMS for Determination of Failure Modes. IEEE Transactions on Semiconductor Manufacturing, 2021, 34, 262-269.	1.4	2
6	Use of a 3-D Wireless Power Transfer Technique as a Method for Capsule Localization. IEEE Access, 2021, 9, 131685-131695.	2.6	6
7	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. Scientific Reports, 2021, 11, 2584.	1.6	16
8	Built-In Self-Test (BIST) Methods for MEMS: A Review. Micromachines, 2021, 12, 40.	1.4	14
9	Automated Particle and Cell Phenotyping Using Object Recognition and Tracking Based on Machine Learning Algorithms. , 2021, , .		0
10	Particle Trajectories and Transverse Dispersion in Acoustic Microfluidic Devices. , 2021, , .		0
11	Fabrication of hollow polymer microstructures using dielectric and capillary forces. Microsystem Technologies, 2020, 26, 301-308.	1.2	0
12	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. Ultrasound in Medicine and Biology, 2020, 46, 796-804.	0.7	19
13	Spinach-based photo-catalyst for selective plating on polyimide-based substrates for micro-patterning circuitry. Chemical Engineering Research and Design, 2020, 153, 839-848.	2.7	7
14	Acoustic methods for detection of specific failure modes in capacitive MEMS microphones. , 2020, , .		2
15	Analysis of throwing power for megasonic assisted electrodeposition of copper inside THVs. Ultrasonics, 2020, 104, 106111.	2.1	8
16	Light based synthesis of metallic nanoparticles on surface-modified 3D printed substrates for high performance electronic systems. Additive Manufacturing, 2020, 34, 101367.	1.7	9
17	Wireless Power Transfer Techniques for Implantable Medical Devices: A Review. Sensors, 2020, 20, 3487.	2.1	150
18	<i>In-Vivo</i> Evaluation of Microultrasound and Thermometric Capsule Endoscopes. IEEE Transactions on Biomedical Engineering, 2019, 66, 632-639.	2.5	25

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19	Reliability Testing and Stress Measurement of QFN Packages Encapsulated by an Open-Ended Microwave Curing System. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 173-180.	1.4	6
20	Selective Metallization of 3D Printable Thermoplastic Polyurethanes. IEEE Access, 2019, 7, 104947-104955.	2.6	14
21	Numerical Determination of the Secondary Acoustic Radiation Force on a Small Sphere in a Plane Standing Wave Field. Micromachines, 2019, 10, 431.	1.4	13
22	Intelligent magnetic manipulation for gastrointestinal ultrasound. Science Robotics, 2019, 4, .	9.9	77
23	Implementation of a Wireless Power Transfer System for Prosthetic Hands. , 2019, , .		0
24	Implementation of a Dual Wireless Power Transfer and Rotation Monitoring System for Prosthetic Hands. IEEE Access, 2019, 7, 107616-107625.	2.6	7
25	Towards a Miniaturized 3D Receiver WPT System for Capsule Endoscopy. Micromachines, 2019, 10, 545.	1.4	14
26	Direct metallisation of polyetherimide substrates by activation with different metals. Surface and Coatings Technology, 2019, 360, 285-296.	2.2	15
27	Miniaturized 3-D Cross-Type Receiver for Wirelessly Powered Capsule Endoscopy. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1985-1993.	2.9	36
28	Theoretical Framework of Radiation Force in Surface Acoustic Waves for Modulated Particle Sorting. Periodica Polytechnica Electrical Engineering and Computer Science, 2019, 63, 77-84.	0.6	3
29	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 429-447.	8.2	35
30	Design of a wireless power transfer system for assisted living applications. Wireless Power Transfer, 2019, 6, 41-56.	0.9	9
31	A rapid technique for the direct metallization of PDMS substrates for flexible and stretchable electronics applications. Microelectronic Engineering, 2019, 209, 35-40.	1.1	22
32	Selective Electroless Copper Deposition by Using Photolithographic Polymer/Ag Nanocomposite. IEEE Transactions on Electron Devices, 2019, 66, 1843-1848.	1.6	17
33	Monte-Carlo Based Sensitivity Analysis of Acoustic Sorting Methods. Periodica Polytechnica Electrical Engineering and Computer Science, 2019, 63, 68-76.	0.6	2
34	Flexible Electronics: A Rapid Photopatterning Method for Selective Plating of 2D and 3D Microcircuitry on Polyetherimide (Adv. Funct. Mater. 6/2018). Advanced Functional Materials, 2018, 28, 1870041.	7.8	0
35	A Rapid Photopatterning Method for Selective Plating of 2D and 3D Microcircuitry on Polyetherimide. Advanced Functional Materials, 2018, 28, 1704451.	7.8	27
36	Copper electroplating of PCB interconnects using megasonic acoustic streaming. Ultrasonics Sonochemistry, 2018, 42, 434-444.	3.8	17

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37	In Vivo Characterization of a Wireless Telemetry Module for a Capsule Endoscopy System Utilizing a Conformal Antenna. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 95-105.	2.7	64
38	Numerical Simulation of Particle Motion in a Phase Modulated Surface Acoustic Wave Microfluidic Device. , 2018, , .		0
39	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. Journal of Medical Engineering and Technology, 2018, 42, 435-442.	0.8	5
40	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy. , 2018, , .		1
41	Nanocomposite-Based Microstructured Piezoresistive Pressure Sensors for Low-Pressure Measurement Range. Micromachines, 2018, 9, 43.	1.4	25
42	Towards a Design Process for Computer-Aided Biomimetics. Biomimetics, 2018, 3, 14.	1.5	24
43	Particle separation in surface acoustic wave microfluidic devices using reprogrammable, pseudo-standing waves. Applied Physics Letters, 2018, 113, .	1.5	26
44	Accurate Modeling of Coil Inductance for Near-Field Wireless Power Transfer. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4158-4169.	2.9	72
45	Sensors for Fetal Hypoxia and Metabolic Acidosis: A Review. Sensors, 2018, 18, 2648.	2.1	17
46	Joint international master in smart systems integration: University collaboration for improved education. , 2018, , .		1
47	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	1.2	9
48	Particle separation by phase modulated surface acoustic waves. Biomicrofluidics, 2017, 11, 054115.	1.2	34
49	Luminally expressed gastrointestinal biomarkers. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1119-1134.	1.4	10
50	Numerical study of the faithful replication of micro/nanostructures on curved surfaces by the electrohydrodynamic instability process. Electrophoresis, 2017, 38, 525-532.	1.3	1
51	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
52	Integration of Electrodeposited Ni-Fe in MEMS with Low-Temperature Deposition and Etch Processes. Materials, 2017, 10, 323.	1.3	5
53	Design, Manufacture and Testing of Capacitive Pressure Sensors for Low-Pressure Measurement Ranges. Micromachines, 2017, 8, 41.	1.4	43
54	Ultrasound capsule endoscopy: sounding out the future. Annals of Translational Medicine, 2017, 5, 201-201.	0.7	28

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55	Design of conformal wideband antennas for capsule endoscopy within a body tissue environment. , 2016, , .		8
56	Carbon screen-printed electrodes on ceramic substrates for label-free molecular detection of antibiotic resistance. Journal of Interdisciplinary Nanomedicine, 2016, 1, 93-109.	3.6	26
57	Influence of electrode types on the electrohydrodynamic instability patterning process: a comparative study. RSC Advances, 2016, 6, 112300-112306.	1.7	1
58	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. World Neurosurgery, 2016, 92, 255-263.	0.7	78
59	Morphology and acoustic artefacts of copper deposits electroplated using megasonic assisted agitation. Circuit World, 2016, 42, 127-140.	0.7	6
60	Computer-Aided Biomimetics. Lecture Notes in Computer Science, 2016, , 131-143.	1.0	7
61	Megasound acoustic surface treatment process in the Printed Circuit Board industry. , 2016, , .		0
62	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 233-244.	1.7	5
63	A Bio-Inspired Photopatterning Method to Deposit Silver Nanoparticles onto Non Conductive Surfaces Using Spinach Leaves Extract in Ethanol. Lecture Notes in Computer Science, 2016, , 71-78.	1.0	2
64	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1
65	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0
66	Simulation of an eddy current based inductive position sensor. , 2015, , .		0
67	Conformal meander shaped antenna for biotelemetry in endoscopic capsules. , 2015, , .		7
68	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. Sensors and Actuators A: Physical, 2015, 223, 91-96.	2.0	11
69	Microwave and thermal curing of an epoxy resin for microelectronic applications. Thermochimica Acta, 2015, 616, 100-109.	1.2	40
70	Impact of microfluidic processing on bacterial ribonucleic acid expression. Biomicrofluidics, 2015, 9, 031102.	1.2	1
71	Fabrication of Electrodeposited Ni-Fe Cantilevers for Magnetic MEMS Switch Applications. Journal of Microelectromechanical Systems, 2015, 24, 870-879.	1.7	8
72	Megasonic sonication for cost-effective and automatable elution of Cryptosporidium from filters and membranes. Journal of Microbiological Methods, 2015, 118, 123-127.	0.7	6

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73	CO ₂ Laser Manufacturing of Miniaturised Lenses for Lab-on-a-Chip Systems. <i>Micromachines</i> , 2014, 5, 457-471.	1.4	6
74	Integrated Magnetic MEMS Relays: Status of the Technology. <i>Micromachines</i> , 2014, 5, 622-653.	1.4	25
75	<i>In-Situ</i> ; Silver Nanoparticle Formation on Surface-Modified Polyetherimide Films. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 736-742.	1.1	8
76	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
77	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
78	Characterization and Theoretical Analysis of Rapidly Prototyped Capillary Action Autonomous Microfluidic Systems. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 1408-1416.	1.7	12
79	Validation of a fully integrated platform and disposable microfluidic chips enabling parallel purification of genome segments for assembly. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1627-1637.	1.7	5
80	Biosensors for the Detection of Waterborne Pathogens. , 2014, , 189-229.		3
81	Application of microfluidics in waterborne pathogen monitoring: A review. <i>Water Research</i> , 2014, 55, 256-271.	5.3	73
82	Integration of microfluidic channels with frequency selective surfaces for sensing and tuning. , 2014, , .		2
83	Fabrication of micro-optical elements on curved substrates by electrostatic induced lithography. <i>RSC Advances</i> , 2014, 4, 38379-38383.	1.7	6
84	Autonomous capillary microfluidic system with embedded optics for improved troponin I cardiac biomarker detection. <i>Biosensors and Bioelectronics</i> , 2014, 61, 478-484.	5.3	57
85	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
86	Statistical analysis of stencil technology for wafer-level bumping. <i>Soldering and Surface Mount Technology</i> , 2014, 26, 71-78.	0.9	2
87	Fabrication of a low temperature co-fired ceramic package using powder blasting technology. <i>Microsystem Technologies</i> , 2013, 19, 791-799.	1.2	3
88	Lamination based embossing technique for LTCC. <i>Microsystem Technologies</i> , 2013, 19, 801-807.	1.2	9
89	Electroplating for high aspect ratio vias in PCB manufacturing: enhancement capabilities of acoustic streaming. <i>Advances in Manufacturing</i> , 2013, 1, 211-217.	3.2	9
90	Planar lens integrated capillary action microfluidic immunoassay device for the optical detection of troponin I. <i>Biomicrofluidics</i> , 2013, 7, 064112.	1.2	14

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91	Numerical modeling of the electroplating process for microvia fabrication. , 2013, , .		2
92	Geometrical optimisation of a biochip microchannel fluidic separator. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 981-991.	0.9	1
93	A review of stencil printing for microelectronic packaging. Soldering and Surface Mount Technology, 2012, 24, 38-50.	0.9	39
94	Review of test methods used for the measurement of hermeticity in packages containing small cavities. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 430-438.	1.4	34
95	Encapsulation of Microelectronic Components Using Open-Ended Microwave Oven. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 799-806.	1.4	10
96	Progress towards filling through silicon vias with conductive ink. , 2012, , .		3
97	Stencil technology for wafer level bumping. , 2012, , .		0
98	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		0
99	Simultaneously printing the redistribution layer and filling of TSVs using a microengineered screen. , 2012, , .		0
100	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		1
101	Detection of Cryptosporidium in miniaturised fluidic devices. Water Research, 2012, 46, 1641-1661.	5.3	49
102	On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.	1.1	6
103	Inkjet printing of conductive materials: a review. Circuit World, 2012, 38, 193-213.	0.7	371
104	Self-encapsulated hollow microstructures formed by electric field-assisted capillarity. Microfluidics and Nanofluidics, 2012, 13, 75-82.	1.0	18
105	Analysis of fluid separation in microfluidic T-channels. Applied Mathematical Modelling, 2012, 36, 743-755.	2.2	37
106	Optimization and characterization of Drop-on-Demand inkjet printing process for platinum organometallic inks. , 2011, , .		10
107	Investigation of high speed micro-bump formation through electrodeposition enhanced by megasonic agitation. , 2011, , .		0
108	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications. , 2011, , .		3

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109	Modelling and simulation of the behaviour of a biofluid in a microchannel biochip separator. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 549-560.	0.9	8
110	Lab-on-a-chip based immunosensor principles and technologies for the detection of cardiac biomarkers: a review. Lab on A Chip, 2011, 11, 569-595.	3.1	265
111	Leak detection methods for glass capped and polymer sealed MEMS packaging. Microsystem Technologies, 2011, 17, 677-684.	1.2	8
112	Progress towards the design and numerical analysis of a 3D microchannel biochip separator. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1771-1792.	1.0	5
113	Modelling and optimisation study on the fabrication of nanostructures using imprint forming process. Engineering Computations, 2011, 28, 93-111.	0.7	2
114	Streaming phenomena in microdroplets induced by Rayleigh surface acoustic wave. Journal of Applied Physics, 2011, 109, 114901.	1.1	48
115	Implementation of Cosserat theory into haptic sensing technology for miniaturised systems. International Journal of Industrial and Systems Engineering, 2010, 5, 366.	0.1	1
116	Laser-based joining for the packaging of miniature optoelectronic devices. Proceedings of SPIE, 2010, , .	0.8	1
117	Hydrodynamic blood plasma separation in microfluidic channels. Microfluidics and Nanofluidics, 2010, 8, 105-114.	1.0	114
118	Influence of Pulse Reverse Plating on the Properties of Ni-Fe Thin Films. IEEE Transactions on Magnetics, 2010, 46, 979-985.	1.2	18
119	Numerical algorithms for modelling electrodeposition: Tracking the deposition front under forced convection from megasonic agitation. International Journal for Numerical Methods in Fluids, 2010, 64, 237-268.	0.9	11
120	Current and emerging techniques of fetal cell separation from maternal blood. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1905-1911.	1.2	29
121	Reliability improvement of a powder blasting process for micro-machining applications. , 2010, , .		0
122	In-situ test structures for ultra low leak detection. , 2010, , .		4
123	Fabrication of a Polymeric Optical Waveguide-On-Flex Using Electrostatic-Induced Lithography. IEEE Photonics Technology Letters, 2010, 22, 957-959.	1.3	8
124	Bespoke interconnect technologies for optoelectronic and biomedical products. , 2010, , .		0
125	Validation of a blood plasma separation system by biomarker detection. Lab on A Chip, 2010, 10, 1587.	3.1	67
126	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays. , 2010, , .		4

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127	Biofluid behaviour in 3D microchannel systems: Numerical analysis and design development of 3D microchannel biochip separators. , 2010, , .		0
128	Progress towards the development of novel fabrication and assembly methods for the next generation of ultrasonic transducers. , 2010, , .		3
129	Advances in laser based joining processes of micro-devices using localised heating. , 2009, , .		0
130	Effect of fluid dynamics and device mechanism on biofluid behaviour in microchannel systems: Modelling biofluids in a microchannel biochip separator. , 2009, , .		0
131	Parametrical modeling and design optimization of blood plasma separation device with microchannel mechanism. , 2009, , .		0
132	Simultaneous determination of the Young's modulus and Poisson's ratio in micro/nano materials. Journal of Micromechanics and Microengineering, 2009, 19, 125027.	1.5	9
133	Investigation of the MeshFree RPIM Solution for a Haptic Sensing Approach to MEMS Design. , 2009, , .		0
134	Optimisation modelling for thermal fatigue reliability of lead-free interconnects in fine-pitch flip-chip packaging. Soldering and Surface Mount Technology, 2009, 21, 11-24.	0.9	25
135	Design, Fabrication, and Characterization of Flip-Chip Bonded Microinductors. IEEE Transactions on Magnetics, 2009, 45, 3055-3063.	1.2	7
136	Design methodology and fabrication process of a microinductor for the next generation of DC-DC power converters. Microsystem Technologies, 2009, 15, 1233-1243.	1.2	5
137	Megasonic agitation for enhanced electrodeposition of copper. Microsystem Technologies, 2009, 15, 1245-1254.	1.2	24
138	Miniaturised optical encoder for ultra precision metrology systems. Precision Engineering, 2009, 33, 263-267.	1.8	9
139	MEMS ultra low leak detection methods: a review. Sensor Review, 2009, 29, 339-344.	1.0	31
140	High density indium bumping using electrodeposition enhanced by megasonic agitation. , 2009, , .		3
141	Polymer cure modeling for microelectronics applications. , 2009, , .		9
142	Fabrication of a MEMS accelerometer to detect heart bypass surgery complications. Sensor Review, 2009, 29, 319-325.	1.0	10
143	Progress towards wafer-scale fabrication of ultrasound arrays for real-time high-resolution biomedical imaging. Sensor Review, 2009, 29, 333-338.	1.0	8
144	Ultra-violet direct patterning of metal on polyimide. Micro and Nano Letters, 2008, 3, 82.	0.6	22

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145	Open-ended microwave oven for flip-chip assembly. IET Microwaves, Antennas and Propagation, 2008, 2, 53-58.	0.7	10
146	A micro-fabricated current sensor for arc fault detection of aircraft wiring. , 2008, , .		5
147	Integrated biomedical device for blood preparation. , 2008, , .		1
148	Design, modeling and characterization of a microinductor for future DC-DC power converters. , 2008, , .		1
149	Challenges in modelling biofluids in microchannels. , 2008, , .		1
150	Failure mechanisms of legacy aircraft wiring and interconnects. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 808-822.	1.8	30
151	Microsystems technology for the separation of fetal cells from maternal blood. , 2008, , .		0
152	Optical encoder readhead chip. , 2008, , .		1
153	Influence of megasonic agitation on the electrodeposition of high aspect ratio blind vias. , 2008, , .		2
154	Optimization of an Open-Ended Microwave Oven for Microelectronics Packaging. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2635-2641.	2.9	10
155	Some applications of magnetic MEMS. , 2008, , .		1
156	Design and fabrication of a miniaturized three-axis accelerometer for measuring heart wall motion. , 2008, , .		1
157	Polymer Curing within an Optimised Open-Ended Microwave Oven. , 2008, , .		0
158	Modelling the Nano-Imprint Forming process for the production of miniaturised 3D structures. , 2008, , .		0
159	Porous alumina based capacitive MEMS RH sensor. , 2008, , .		6
160	Selection of Wavelet for De-noising PD waveforms for Prognostics and Diagnostics of Aircraft Wiring. , 2008, , .		7
161	Megasonic enhanced wafer bumping process to enable high density electronics interconnection. , 2008, , .		1
162	Megasonic enhanced electrodeposition. , 2008, , .		6

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163	Design and fabrication of an implantable three-axis accelerometer for post-surgery monitoring of heart wall motion. , 2008, , .		0
164	Minimising the risk of defects in nano-imprint forming. , 2008, , .		0
165	UV direct-writing of metals on polyimide. , 2008, , .		1
166	Miniaturised optical encoder. Proceedings of SPIE, 2008, , .	0.8	1
167	Ultra-Fine Pitch Stencil Printing for a Low Cost and Low Temperature Flip-Chip Assembly Process. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 129-136.	1.4	25
168	Microengineered Two-Dimensional Arrays of Monomode Optical Fibers. Journal of Microelectromechanical Systems, 2007, 16, 1506-1514.	1.7	1
169	The evolution of paste pressure during stencil printing. Soldering and Surface Mount Technology, 2007, 19, 9-14.	0.9	12
170	Corrections to "Ultra-fine pitch stencil printing for a low cost and low temperature flip-chip assembly process". IEEE Transactions on Components and Packaging Technologies, 2007, 30, 359-359.	1.4	0
171	Computational modelling for reliable flip-chip packaging at sub-100 ¹ / ₄ m pitch using isotropic conductive adhesives. Microelectronics Reliability, 2007, 47, 132-141.	0.9	10
172	MEMS-based packaging of a UV-LED array. Micro and Nano Letters, 2007, 2, 99.	0.6	0
173	Characterization of Core Materials for Microscale Magnetic Components Operating in the Megahertz Frequency Range. IEEE Transactions on Magnetics, 2007, 43, 3171-3180.	1.2	20
174	Haptic Technologies for MEMS Design. Journal of Physics: Conference Series, 2006, 34, 72-75.	0.3	1
175	An Analysis of a Microfabricated Solenoid Inductor. , 2006, , .		6
176	A Comparison of Various magnetic thin films for the application of microscale magnetic components. Journal of Physics: Conference Series, 2006, 34, 112-117.	0.3	8
177	Two-dimensional monomode optical fibre array manufacture using microengineering techniques. Microsystem Technologies, 2006, 12, 965-972.	1.2	5
178	Fabrication process of a micro-inductor utilising a magnetic thin film core. Microsystem Technologies, 2006, 12, 923-933.	1.2	13
179	A design study of microscale magnetic components for operation in the MHz frequency range. Journal of Micromechanics and Microengineering, 2006, 16, 1811-1818.	1.5	15
180	Reliability modelling and analysis of thermal MEMS. Journal of Physics: Conference Series, 2006, 34, 235-240.	0.3	16

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181	Assessment of MicroInductors for DC-DC Converters. , 2006, , .		0
182	Manufacture and characterisation of micro-engineered DC-DC power converter using UV-LIGA process. Electronics Letters, 2005, 41, 1351.	0.5	3
183	Teaching and learning in microsystems engineering. European Journal of Engineering Education, 2005, 30, 341-352.	1.5	4
184	Operation of an optoelectronic crossbar switch containing a terabit-per-second free-space optical interconnect. IEEE Journal of Quantum Electronics, 2005, 41, 1024-1036.	1.0	6
185	Submicron alignment of a two-dimensional array of multiple single-mode fibers. IEEE Photonics Technology Letters, 2005, 17, 2634-2636.	1.3	4
186	MEMS reliability modelling methodology: application to wobble micromotor failure analysis.. Microelectronics Reliability, 2003, 43, 1945-1949.	0.9	4
187	VHDLâ€“AMS modelling and simulation of a planar electrostatic micromotor. Journal of Micromechanics and Microengineering, 2003, 13, 580-590.	1.5	20
188	System level simulation of a double stator wobble electrostatic micromotor. Sensors and Actuators A: Physical, 2002, 99, 312-320.	2.0	12
189	Dedicated optoelectronic stochastic parallel processor for real-time image processing: motion-detection demonstration and design of a hybrid complementary-metal-oxide semiconductorâ€“self-electro-optic-device-based prototype. Applied Optics, 2001, 40, 6479.	2.1	3
190	Optically interconnected electronic chips: a tutorial and review of the technology. Electronics and Communication Engineering Journal, 2001, 13, 221-232.	0.6	78
191	Optoelectronics-VLSI system integration. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 269-275.	1.7	10
192	Architectural approach to the role of optics in monoprocessor and multiprocessor machines. Applied Optics, 2000, 39, 671.	2.1	59
193	Design and construction of an optoelectronic crossbar switch containing a terabit per second free-space optical interconnect. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 236-249.	1.9	28
194	Optical Interconnectivity in a Scalable Data-Parallel System. Journal of Parallel and Distributed Computing, 1997, 41, 120-130.	2.7	18
195	Optical clock distribution for multichip module. Optical Review, 1996, 3, A379-A380.	1.2	4
196	Leaky-waveguide modulator using distributed coupling of light. Optics Communications, 1994, 110, 60-66.	1.0	1
197	Tolerance analysis of cascaded self-electro-optic-effect-device arrays. Applied Optics, 1994, 33, 1368.	2.1	4