

# Marc P Y Desmulliez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3564327/publications.pdf>

Version: 2024-02-01

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	Inkjet printing of conductive materials: a review. <i>Circuit World</i> , 2012, 38, 193-213.	0.7	371
2	Lab-on-a-chip based immunosensor principles and technologies for the detection of cardiac biomarkers: a review. <i>Lab on A Chip</i> , 2011, 11, 569-595.	3.1	265
3	Wireless Power Transfer Techniques for Implantable Medical Devices: A Review. <i>Sensors</i> , 2020, 20, 3487.	2.1	150
4	Hydrodynamic blood plasma separation in microfluidic channels. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 105-114.	1.0	114
5	Optically interconnected electronic chips: a tutorial and review of the technology. <i>Electronics and Communication Engineering Journal</i> , 2001, 13, 221-232.	0.6	78
6	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2016, 92, 255-263.	0.7	78
7	Intelligent magnetic manipulation for gastrointestinal ultrasound. <i>Science Robotics</i> , 2019, 4, .	9.9	77
8	Application of microfluidics in waterborne pathogen monitoring: A review. <i>Water Research</i> , 2014, 55, 256-271.	5.3	73
9	Accurate Modeling of Coil Inductance for Near-Field Wireless Power Transfer. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 4158-4169.	2.9	72
10	Validation of a blood plasma separation system by biomarker detection. <i>Lab on A Chip</i> , 2010, 10, 1587.	3.1	67
11	In Vivo Characterization of a Wireless Telemetry Module for a Capsule Endoscopy System Utilizing a Conformal Antenna. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 95-105.	2.7	64
12	Architectural approach to the role of optics in monoprocessor and multiprocessor machines. <i>Applied Optics</i> , 2000, 39, 671.	2.1	59
13	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
14	Detection of Cryptosporidium in miniaturised fluidic devices. <i>Water Research</i> , 2012, 46, 1641-1661.	5.3	49
15	Streaming phenomena in microdroplets induced by Rayleigh surface acoustic wave. <i>Journal of Applied Physics</i> , 2011, 109, 114901.	1.1	48
16	Design, Manufacture and Testing of Capacitive Pressure Sensors for Low-Pressure Measurement Ranges. <i>Micromachines</i> , 2017, 8, 41.	1.4	43
17	Microwave and thermal curing of an epoxy resin for microelectronic applications. <i>Thermochimica Acta</i> , 2015, 616, 100-109.	1.2	40
18	A review of stencil printing for microelectronic packaging. <i>Soldering and Surface Mount Technology</i> , 2012, 24, 38-50.	0.9	39

#	ARTICLE	IF	CITATIONS
19	Analysis of fluid separation in microfluidic T-channels. Applied Mathematical Modelling, 2012, 36, 743-755.	2.2	37
20	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
21	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 429-447.	8.2	35
22	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
23	Particle separation by phase modulated surface acoustic waves. Biomicrofluidics, 2017, 11, 054115.	1.2	34
24	MEMS ultra low leak detection methods: a review. Sensor Review, 2009, 29, 339-344.	1.0	31
25	Failure mechanisms of legacy aircraft wiring and interconnects. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 808-822.	1.8	30
26	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
27	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
28	Ultrasound capsule endoscopy: sounding out the future. Annals of Translational Medicine, 2017, 5, 201-201.	0.7	28
29	A Rapid Photopatterning Method for Selective Plating of 2D and 3D Microcircuitry on Polyetherimide. Advanced Functional Materials, 2018, 28, 1704451.	7.8	27
30	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
31	Particle separation in surface acoustic wave microfluidic devices using reprogrammable, pseudo-standing waves. Applied Physics Letters, 2018, 113, .	1.5	26
32	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
33	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
34	Integrated Magnetic MEMS Relays: Status of the Technology. Micromachines, 2014, 5, 622-653.	1.4	25
35	Nanocomposite-Based Microstructured Piezoresistive Pressure Sensors for Low-Pressure Measurement Range. Micromachines, 2018, 9, 43.	1.4	25
36	<i>In-Vivo</i> Evaluation of Microultrasound and Thermometric Capsule Endoscopes. IEEE Transactions on Biomedical Engineering, 2019, 66, 632-639.	2.5	25

#	ARTICLE	IF	CITATIONS
37	Megasonic agitation for enhanced electrodeposition of copper. <i>Microsystem Technologies</i> , 2009, 15, 1245-1254.	1.2	24
38	Towards a Design Process for Computer-Aided Biomimetics. <i>Biomimetics</i> , 2018, 3, 14.	1.5	24
39	Ultra-violet direct patterning of metal on polyimide. <i>Micro and Nano Letters</i> , 2008, 3, 82.	0.6	22
40	A rapid technique for the direct metallization of PDMS substrates for flexible and stretchable electronics applications. <i>Microelectronic Engineering</i> , 2019, 209, 35-40.	1.1	22
41	VHDL-AMS modelling and simulation of a planar electrostatic micromotor. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 580-590.	1.5	20
42	Characterization of Core Materials for Microscale Magnetic Components Operating in the Megahertz Frequency Range. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 3171-3180.	1.2	20
43	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 796-804.	0.7	19
44	Optical Interconnectivity in a Scalable Data-Parallel System. <i>Journal of Parallel and Distributed Computing</i> , 1997, 41, 120-130.	2.7	18
45	Influence of Pulse Reverse Plating on the Properties of Ni-Fe Thin Films. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 979-985.	1.2	18
46	Self-encapsulated hollow microstructures formed by electric field-assisted capillarity. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 75-82.	1.0	18
47	Copper electroplating of PCB interconnects using megasonic acoustic streaming. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 434-444.	3.8	17
48	Sensors for Fetal Hypoxia and Metabolic Acidosis: A Review. <i>Sensors</i> , 2018, 18, 2648.	2.1	17
49	Selective Electroless Copper Deposition by Using Photolithographic Polymer/Ag Nanocomposite. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1843-1848.	1.6	17
50	Reliability modelling and analysis of thermal MEMS. <i>Journal of Physics: Conference Series</i> , 2006, 34, 235-240.	0.3	16
51	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. <i>Scientific Reports</i> , 2021, 11, 2584.	1.6	16
52	A design study of microscale magnetic components for operation in the MHz frequency range. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1811-1818.	1.5	15
53	Direct metallisation of polyetherimide substrates by activation with different metals. <i>Surface and Coatings Technology</i> , 2019, 360, 285-296.	2.2	15
54	Planar lens integrated capillary action microfluidic immunoassay device for the optical detection of troponin I. <i>Biomicrofluidics</i> , 2013, 7, 064112.	1.2	14

#	ARTICLE	IF	CITATIONS
55	Selective Metallization of 3D Printable Thermoplastic Polyurethanes. IEEE Access, 2019, 7, 104947-104955.	2.6	14
56	Towards a Miniaturized 3D Receiver WPT System for Capsule Endoscopy. Micromachines, 2019, 10, 545.	1.4	14
57	Built-In Self-Test (BIST) Methods for MEMS: A Review. Micromachines, 2021, 12, 40.	1.4	14
58	Fabrication process of a micro-inductor utilising a magnetic thin film core. Microsystem Technologies, 2006, 12, 923-933.	1.2	13
59	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
60	System level simulation of a double stator wobble electrostatic micromotor. Sensors and Actuators A: Physical, 2002, 99, 312-320.	2.0	12
61	The evolution of paste pressure during stencil printing. Soldering and Surface Mount Technology, 2007, 19, 9-14.	0.9	12
62	Characterization and Theoretical Analysis of Rapidly Prototyped Capillary Action Autonomous Microfluidic Systems. Journal of Microelectromechanical Systems, 2014, 23, 1408-1416.	1.7	12
63	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
64	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. Sensors and Actuators A: Physical, 2015, 223, 91-96.	2.0	11
65	Optoelectronics-VLSI system integration. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 269-275.	1.7	10
66	Computational modelling for reliable flip-chip packaging at sub-100µm pitch using isotropic conductive adhesives. Microelectronics Reliability, 2007, 47, 132-141.	0.9	10
67	Open-ended microwave oven for flip-chip assembly. IET Microwaves, Antennas and Propagation, 2008, 2, 53-58.	0.7	10
68	Optimization of an Open-Ended Microwave Oven for Microelectronics Packaging. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2635-2641.	2.9	10
69	Fabrication of a MEMS accelerometer to detect heart bypass surgery complications. Sensor Review, 2009, 29, 319-325.	1.0	10
70	Optimization and characterization of Drop-on-Demand inkjet printing process for platinum organometallic inks. , 2011, , .		10
71	Encapsulation of Microelectronic Components Using Open-Ended Microwave Oven. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 799-806.	1.4	10
72	Luminally expressed gastrointestinal biomarkers. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1119-1134.	1.4	10

#	ARTICLE	IF	CITATIONS
73	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
74	Miniaturised optical encoder for ultra precision metrology systems. Precision Engineering, 2009, 33, 263-267.	1.8	9
75	Polymer cure modeling for microelectronics applications. , 2009, , .		9
76	Lamination based embossing technique for LTCC. Microsystem Technologies, 2013, 19, 801-807.	1.2	9
77	Electroplating for high aspect ratio vias in PCB manufacturing: enhancement capabilities of acoustic streaming. Advances in Manufacturing, 2013, 1, 211-217.	3.2	9
78	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	1.2	9
79	Design of a wireless power transfer system for assisted living applications. Wireless Power Transfer, 2019, 6, 41-56.	0.9	9
80	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
81	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
82	Progress towards wafer-scale fabrication of ultrasound arrays for real-time high-resolution biomedical imaging. Sensor Review, 2009, 29, 333-338.	1.0	8
83	Fabrication of a Polymeric Optical Waveguide-On-Flex Using Electrostatic-Induced Lithography. IEEE Photonics Technology Letters, 2010, 22, 957-959.	1.3	8
84	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
85	Leak detection methods for glass capped and polymer sealed MEMS packaging. Microsystem Technologies, 2011, 17, 677-684.	1.2	8
86	<i>In-Situ</i> Silver Nanoparticle Formation on Surface-Modified Polyetherimide Films. IEEE Nanotechnology Magazine, 2014, 13, 736-742.	1.1	8
87	Fabrication of Electrodeposited Ni-Fe Cantilevers for Magnetic MEMS Switch Applications. Journal of Microelectromechanical Systems, 2015, 24, 870-879.	1.7	8
88	Design of conformal wideband antennas for capsule endoscopy within a body tissue environment. , 2016, , .		8
89	Analysis of throwing power for megasonic assisted electrodeposition of copper inside THVs. Ultrasonics, 2020, 104, 106111.	2.1	8
90	Selection of Wavelet for De-noising PD waveforms for Prognostics and Diagnostics of Aircraft Wiring. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
91	Design, Fabrication, and Characterization of Flip-Chip Bonded Microinductors. IEEE Transactions on Magnetics, 2009, 45, 3055-3063.	1.2	7
92	Conformal meander shaped antenna for biotelemetry in endoscopic capsules. , 2015, , .		7
93	Computer-Aided Biomimetics. Lecture Notes in Computer Science, 2016, , 131-143.	1.0	7
94	Implementation of a Dual Wireless Power Transfer and Rotation Monitoring System for Prosthetic Hands. IEEE Access, 2019, 7, 107616-107625.	2.6	7
95	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
96	Bandpass sorting of heterogeneous cells using a single surface acoustic wave transducer pair. Biomicrofluidics, 2021, 15, 014105.	1.2	7
97	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
98	An Analysis of a Microfabricated Solenoid Inductor. , 2006, , .		6
99	Porous alumina based capacitive MEMS RH sensor. , 2008, , .		6
100	Megasonic enhanced electrodeposition. , 2008, , .		6
101	On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.	1.1	6
102	CO2 Laser Manufacturing of Miniaturised Lenses for Lab-on-a-Chip Systems. Micromachines, 2014, 5, 457-471.	1.4	6
103	Fabrication of micro-optical elements on curved substrates by electrostatic induced lithography. RSC Advances, 2014, 4, 38379-38383.	1.7	6
104	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
105	Morphology and acoustic artefacts of copper deposits electroplated using megasonic assisted agitation. Circuit World, 2016, 42, 127-140.	0.7	6
106	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
107	Use of a 3-D Wireless Power Transfer Technique as a Method for Capsule Localization. IEEE Access, 2021, 9, 131685-131695.	2.6	6
108	Two-dimensional monomode optical fibre array manufacture using microengineering techniques. Microsystem Technologies, 2006, 12, 965-972.	1.2	5

#	ARTICLE	IF	CITATIONS
109	A micro-fabricated current sensor for arc fault detection of aircraft wiring. , 2008, , .		5
110	Design methodology and fabrication process of a microinductor for the next generation of DCâ€“DC power converters. Microsystem Technologies, 2009, 15, 1233-1243.	1.2	5
111	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
112	Validation of a fully integrated platform and disposable microfluidic chips enabling parallel purification of genome segments for assembly. Biotechnology and Bioengineering, 2014, 111, 1627-1637.	1.7	5
113	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
114	Integration of Electrodeposited Ni-Fe in MEMS with Low-Temperature Deposition and Etch Processes. Materials, 2017, 10, 323.	1.3	5
115	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. Journal of Medical Engineering and Technology, 2018, 42, 435-442.	0.8	5
116	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
117	Tolerance analysis of cascaded self-electro-optic-effect-device arrays. Applied Optics, 1994, 33, 1368.	2.1	4
118	Optical clock distribution for multichip module. Optical Review, 1996, 3, A379-A380.	1.2	4
119	MEMS reliability modelling methodology: application to wobble micromotor failure analysis.. Microelectronics Reliability, 2003, 43, 1945-1949.	0.9	4
120	Teaching and learning in microsystems engineering. European Journal of Engineering Education, 2005, 30, 341-352.	1.5	4
121	Submicron alignment of a two-dimensional array of multiple single-mode fibers. IEEE Photonics Technology Letters, 2005, 17, 2634-2636.	1.3	4
122	In-situ test structures for ultra low leak detection. , 2010, , .		4
123	Future integration of silicon electronics with miniature piezoelectric ultrasonic transducers and arrays. , 2010, , .		4
124	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
125	Biosensors for the detection of waterborne pathogens. , 2021, , 189-235.		4
126	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



#	ARTICLE	IF	CITATIONS
127	Manufacture and characterisation of micro-engineered DC-DC power converter using UV-LIGA process. Electronics Letters, 2005, 41, 1351.	0.5	3
128	High density indium bumping using electrodeposition enhanced by megasonic agitation. , 2009, , .		3
129	Progress towards the development of novel fabrication and assembly methods for the next generation of ultrasonic transducers. , 2010, , .		3
130	Design, manufacturing and packaging of high frequency micro ultrasonic transducers for medical applications. , 2011, , .		3
131	Progress towards filling through silicon vias with conductive ink. , 2012, , .		3
132	Fabrication of a low temperature co-fired ceramic package using powder blasting technology. Microsystem Technologies, 2013, 19, 791-799.	1.2	3
133	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
134	Biosensors for the Detection of Waterborne Pathogens. , 2014, , 189-229.		3
135	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
136	Influence of megasonic agitation on the electrodeposition of high aspect ratio blind vias. , 2008, , .		2
137	Modelling and optimisation study on the fabrication of nano-structures using imprint forming process. Engineering Computations, 2011, 28, 93-111.	0.7	2
138	Numerical modeling of the electroplating process for microvia fabrication. , 2013, , .		2
139	Integration of microfluidic channels with frequency selective surfaces for sensing and tuning. , 2014, , .		2
140	Statistical analysis of stencil technology for wafer-level bumping. Soldering and Surface Mount Technology, 2014, 26, 71-78.	0.9	2
141	Monte-Carlo Based Sensitivity Analysis of Acoustic Sorting Methods. Periodica Polytechnica Electrical Engineering and Computer Science, 2019, 63, 68-76.	0.6	2
142	Acoustic methods for detection of specific failure modes in capacitive MEMS microphones. , 2020, , .		2
143	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
144	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

#	ARTICLE	IF	CITATIONS
145	Leaky-waveguide modulator using distributed coupling of light. Optics Communications, 1994, 110, 60-66.	1.0	1
146	Haptic Technologies for MEMS Design. Journal of Physics: Conference Series, 2006, 34, 72-75.	0.3	1
147	Microengineered Two-Dimensional Arrays of Monomode Optical Fibers. Journal of Microelectromechanical Systems, 2007, 16, 1506-1514.	1.7	1
148	Integrated biomedical device for blood preparation. , 2008, , .		1
149	Design, modeling and characterization of a microinductor for future DC-DC power converters. , 2008, , .		1
150	Challenges in modelling biofluids in microchannels. , 2008, , .		1
151	Optical encoder readhead chip. , 2008, , .		1
152	Some applications of magnetic MEMS. , 2008, , .		1
153	Design and fabrication of a miniaturized three-axis accelerometer for measuring heart wall motion. , 2008, , .		1
154	Megasonic enhanced wafer bumping process to enable high density electronics interconnection. , 2008, , .		1
155	UV direct-writing of metals on polyimide. , 2008, , .		1
156	Miniaturised optical encoder. Proceedings of SPIE, 2008, , .	0.8	1
157	Implementation of Cosserat theory into haptic sensing technology for miniaturised systems. International Journal of Industrial and Systems Engineering, 2010, 5, 366.	0.1	1
158	Laser-based joining for the packaging of miniature optoelectronic devices. Proceedings of SPIE, 2010, , .	0.8	1
159	Geometrical optimisation of a biochip microchannel fluidic separator. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 981-991.	0.9	1
160	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		1
161	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1
162	Impact of microfluidic processing on bacterial ribonucleic acid expression. Biomicrofluidics, 2015, 9, 031102.	1.2	1

#	ARTICLE	IF	CITATIONS
163	Influence of electrode types on the electrohydrodynamic instability patterning process: a comparative study. RSC Advances, 2016, 6, 112300-112306.	1.7	1
164	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
165	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy. , 2018, , .		1
166	Joint international master in smart systems integration: University collaboration for improved education. , 2018, , .		1
167	Assessment of MicroInductors for DC-DC Converters. , 2006, , .		0
168	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
169	MEMS-based packaging of a UV-LED array. Micro and Nano Letters, 2007, 2, 99.	0.6	0
170	Microsystems technology for the separation of fetal cells from maternal blood. , 2008, , .		0
171	Polymer Curing within an Optimised Open-Ended Microwave Oven. , 2008, , .		0
172	Modelling the Nano-Imprint Forming process for the production of miniaturised 3D structures. , 2008, , .		0
173	Design and fabrication of an implantable three-axis accelerometer for post-surgery monitoring of heart wall motion. , 2008, , .		0
174	Minimising the risk of defects in nano-imprint forming. , 2008, , .		0
175	Advances in laser based joining processes of micro-devices using localised heating. , 2009, , .		0
176	Effect of fluid dynamics and device mechanism on biofluid behaviour in microchannel systems: Modelling biofluids in a microchannel biochip separator. , 2009, , .		0
177	Parametrical modeling and design optimization of blood plasma separation device with microchannel mechanism. , 2009, , .		0
178	Investigation of the MeshFree RPIM Solution for a Haptic Sensing Approach to MEMS Design. , 2009, , .		0
179	Reliability improvement of a powder blasting process for micro-machining applications. , 2010, , .		0
180	Bespoke interconnect technologies for optoelectronic and biomedical products. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
181	Biofluid behaviour in 3D microchannel systems: Numerical analysis and design development of 3D microchannel biochip separators. , 2010, , .		0
182	Investigation of high speed micro-bump formation through electrodeposition enhanced by megasonic agitation. , 2011, , .		0
183	Stencil technology for wafer level bumping. , 2012, , .		0
184	Low temperature bonding of piezoelectric single crystal materials for miniaturized high resolution ultrasound transducers. , 2012, , .		0
185	Simultaneously printing the redistribution layer and filling of TSVs using a microengineered screen. , 2012, , .		0
186	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
187	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0
188	Simulation of an eddy current based inductive position sensor. , 2015, , .		0
189	Megasound acoustic surface treatment process in the Printed Circuit Board industry. , 2016, , .		0
190	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
191	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
192	Numerical Simulation of Particle Motion in a Phase Modulated Surface Acoustic Wave Microfluidic Device. , 2018, , .		0
193	Implementation of a Wireless Power Transfer System for Prosthetic Hands. , 2019, , .		0
194	Fabrication of hollow polymer microstructures using dielectric and capillary forces. Microsystem Technologies, 2020, 26, 301-308.	1.2	0
195	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
196	Automated Particle and Cell Phenotyping Using Object Recognition and Tracking Based on Machine Learning Algorithms. , 2021, , .		0
197	Particle Trajectories and Transverse Dispersion in Acoustic Microfluidic Devices. , 2021, , .		0