

Gerard Cummins

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3968744/publications.pdf>

Version: 2024-02-01

42
papers

1,213
citations

567281

15
h-index

642732

23
g-index

43
all docs

43
docs citations

43
times ranked

1698
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet printing of conductive materials: a review. <i>Circuit World</i> , 2012, 38, 193-213.	0.9	371
2	Wireless Power Transfer Techniques for Implantable Medical Devices: A Review. <i>Sensors</i> , 2020, 20, 3487.	3.8	150
3	Two-phase flow instabilities in a silicon microchannels heat sink. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 854-867.	2.4	131
4	Intelligent magnetic manipulation for gastrointestinal ultrasound. <i>Science Robotics</i> , 2019, 4, .	17.6	77
5	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.	4.0	64
6	Experimental investigation of non-uniform heating effect on flow boiling instabilities in a microchannel-based heat sink. <i>International Journal of Thermal Sciences</i> , 2011, 50, 309-324.	4.9	61
7	Experimental pool boiling investigations of FC-72 on silicon with artificial cavities and integrated temperature microsensors. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 422-433.	2.7	43
8	Miniaturized 3-D Cross-Type Receiver for Wirelessly Powered Capsule Endoscopy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 1985-1993.	4.6	36
9	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019, 16, 429-447.	17.8	35
10	Ultrasound capsule endoscopy: sounding out the future. <i>Annals of Translational Medicine</i> , 2017, 5, 201-201.	1.7	28
11	Carbon screen-printed electrodes on ceramic substrates for label-free molecular detection of antibiotic resistance. <i>Journal of Interdisciplinary Nanomedicine</i> , 2016, 1, 93-109.	3.6	26
12	Nanocomposite-Based Microstructured Piezoresistive Pressure Sensors for Low-Pressure Measurement Range. <i>Micromachines</i> , 2018, 9, 43.	2.9	25
13	<i>In-Vivo</i> Evaluation of Microultrasound and Thermometric Capsule Endoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 632-639.	4.2	25
14	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 796-804.	1.5	19
15	Sensors for Fetal Hypoxia and Metabolic Acidosis: A Review. <i>Sensors</i> , 2018, 18, 2648.	3.8	17
16	Investigation of Flow Distribution in Microchannels Heat Sinks. <i>Heat Transfer Engineering</i> , 2009, 30, 1049-1057.	1.9	16
17	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. <i>Scientific Reports</i> , 2021, 11, 2584.	3.3	16
18	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. <i>Sensors and Actuators A: Physical</i> , 2015, 223, 91-96.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Optimization and characterization of Drop-on-Demand inkjet printing process for platinum organometallic inks. , 2011, , .		10
20	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
21	Luminally expressed gastrointestinal biomarkers. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1119-1134.	3.0	10
22	Design of conformal wideband antennas for capsule endoscopy within a body tissue environment. , 2016, , .		8
23	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. Journal of Medical Engineering and Technology, 2018, 42, 435-442.	1.4	5
24	Experimental Investigation of Non-Uniform Heating on Flow Boiling Instabilities in a Microchannels Based Heat Sink. , 2009, , .		4
25	Electrical characterization and modelling of top-emitting PIN-OLEDs. Journal of the Society for Information Display, 2011, 19, 360-367.	2.1	3
26	Progress towards filling through silicon vias with conductive ink. , 2012, , .		3
27	Statistical analysis of stencil technology for wafer-level bumping. Soldering and Surface Mount Technology, 2014, 26, 71-78.	1.5	2
28	Assessment of the ultrasonic properties of additive manufactured materials for passive components of piezoelectric transducers. , 2016, , .		2
29	Fabrication of Silicon Microchannel With Integrated Heater and Temperature Sensors for Flow Boiling Studies. , 2008, , .		1
30	P-164: Electrical Characterisation and Modeling of Top-Emitting PIN-OLED Devices. Digest of Technical Papers SID International Symposium, 2010, 41, 1863.	0.3	1
31	Novel dual layer electroformed stencils for high resolution LTCC circuit manufacture. , 2011, , .		1
32	Characterization and development of materials for an integrated high-temperature sensor using resistive test structures. , 2014, , .		1
33	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy. , 2018, , .		1
34	Measurement and optimisation of bond strength for anodic bonding of glass to dielectric thin films. , 2008, , .		0
35	Stencil technology for wafer level bumping. , 2012, , .		0
36	Simultaneously printing the redistribution layer and filling of TSVs using a microengineered screen. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
38	Characterisation of adhesive bonds for ingestible biomedical applications. , 2015, , .		0
39	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0
40	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
41	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
42	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0