

# Gerard Cummins

## List of Publications by Year in descending order

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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	Ultrasound mediated delivery of quantum dots from a proof of concept capsule endoscope to the gastrointestinal wall. Scientific Reports, 2021, 11, 2584.	3.3	16
2	Ultrasound Capsule Endoscopy With a Mechanically Scanning Micro-ultrasound: A Porcine Study. Ultrasound in Medicine and Biology, 2020, 46, 796-804.	1.5	19
3	Wireless Power Transfer Techniques for Implantable Medical Devices: A Review. Sensors, 2020, 20, 3487.	3.8	150
4	<i>In-Vivo</i> Evaluation of Microultrasound and Thermometric Capsule Endoscopes. IEEE Transactions on Biomedical Engineering, 2019, 66, 632-639.	4.2	25
5	Intelligent magnetic manipulation for gastrointestinal ultrasound. Science Robotics, 2019, 4, .	17.6	77
6	Miniaturized 3-D Cross-Type Receiver for Wirelessly Powered Capsule Endoscopy. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1985-1993.	4.6	36
7	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 429-447.	17.8	35
8	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.	4.0	64
9	Challenges in developing collaborative interdisciplinary research between gastroenterologists and engineers. Journal of Medical Engineering and Technology, 2018, 42, 435-442.	1.4	5
10	Integrated Front End Circuitry for Microultrasound Capsule Endoscopy. , 2018, , .		1
11	Nanocomposite-Based Microstructured Piezoresistive Pressure Sensors for Low-Pressure Measurement Range. Micromachines, 2018, 9, 43.	2.9	25
12	Sensors for Fetal Hypoxia and Metabolic Acidosis: A Review. Sensors, 2018, 18, 2648.	3.8	17
13	Luminally expressed gastrointestinal biomarkers. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1119-1134.	3.0	10
14	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0
15	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
16	Translational trial outcomes for capsule endoscopy test devices. , 2017, , .		0
17	Optimization and characterisation of bonding of piezoelectric transducers using anisotropic conductive adhesive. , 2017, , .		0
18	Ultrasound capsule endoscopy: sounding out the future. Annals of Translational Medicine, 2017, 5, 201-201.	1.7	28

#	ARTICLE	IF	CITATIONS
19	Design of conformal wideband antennas for capsule endoscopy within a body tissue environment. , 2016, , .		8
20	Assessment of the ultrasonic properties of additive manufactured materials for passive components of piezoelectric transducers. , 2016, , .		2
21	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
22	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
23	Characterisation of adhesive bonds for ingestible biomedical applications. , 2015, , .		0
24	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. Sensors and Actuators A: Physical, 2015, 223, 91-96.	4.1	11
25	Characterization and development of materials for an integrated high-temperature sensor using resistive test structures. , 2014, , .		1
26	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
27	Statistical analysis of stencil technology for wafer-level bumping. Soldering and Surface Mount Technology, 2014, 26, 71-78.	1.5	2
28	Progress towards filling through silicon vias with conductive ink. , 2012, , .		3
29	Stencil technology for wafer level bumping. , 2012, , .		0
30	Simultaneously printing the redistribution layer and filling of TSVs using a microengineered screen. , 2012, , .		0
31	Inkjet printing of conductive materials: a review. Circuit World, 2012, 38, 193-213.	0.9	371
32	Optimization and characterization of Drop-on-Demand inkjet printing process for platinum organometallic inks. , 2011, , .		10
33	Electrical characterization and modelling of top-emitting PIN-OLEDs. Journal of the Society for Information Display, 2011, 19, 360-367.	2.1	3
34	Experimental investigation of non-uniform heating effect on flow boiling instabilities in a microchannel-based heat sink. International Journal of Thermal Sciences, 2011, 50, 309-324.	4.9	61
35	Novel dual layer electroformed stencils for high resolution LTCC circuit manufacture. , 2011, , .		1
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Investigation of Flow Distribution in Microchannels Heat Sinks. <i>Heat Transfer Engineering</i> , 2009, 30, 1049-1057.	1.9	16
40	Experimental Investigation of Non-Uniform Heating on Flow Boiling Instabilities in a Microchannels Based Heat Sink. , 2009, , .		4
41	Measurement and optimisation of bond strength for anodic bonding of glass to dielectric thin films. , 2008, , .		0
42	Fabrication of Silicon Microchannel With Integrated Heater and Temperature Sensors for Flow Boiling Studies. , 2008, , .		1