

# Ronan McCann

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49  
papers

664  
citations

14  
h-index

25  
g-index

54  
ext. papers

952  
ext. citations

4.6  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
49	Stir casting process for manufacture of AlSiC composites. <i>Rare Metals</i> , <b>2017</b> , 36, 581-590	5.5	109
48	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , <b>2020</b> , 32, 147-177	21.8	59
47	Surface modification of polymers for biocompatibility via exposure to extreme ultraviolet radiation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 3298-310	5.4	58
46	Advances in Selective Laser Melting of Nitinol Shape Memory Alloy Part Production. <i>Materials</i> , <b>2019</b> , 12,	3.5	37
45	Laser assisted synthesis of carbon nanoparticles with controlled viscosities for printing applications. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 447, 263-8	9.3	36
44	Liquid Phase Pulsed Laser Ablation: A route to fabricate different carbon nanostructures. <i>Applied Surface Science</i> , <b>2014</b> , 302, 141-144	6.7	36
43	Laser Polishing of Additive Manufactured 316L Stainless Steel Synthesized by Selective Laser Melting. <i>Materials</i> , <b>2019</b> , 12,	3.5	34
42	ColiSense, today's sample today: A rapid on-site detection of $\beta$ -Glucuronidase activity in surface water as a surrogate for E. coli. <i>Talanta</i> , <b>2016</b> , 148, 75-83	6.2	31
41	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , <b>2021</b> , 43, 99-131	21.8	29
40	Microchannel fabrication on cyclic olefin polymer substrates via 1064 nm Nd:YAG laser ablation. <i>Applied Surface Science</i> , <b>2016</b> , 387, 603-608	6.7	25
39	Study of the plastic deformation mechanism of TRIP/WIP high entropy alloys at the atomic level. <i>International Journal of Plasticity</i> , <b>2020</b> , 127, 102649	7.6	23
38	Manufacturing of cast A356 matrix composite reinforced with nano- to micrometer-sized SiC particles. <i>Rare Metals</i> , <b>2017</b> , 36, 46-54	5.5	20
37	Fast Fabrication Process of Microfluidic Devices Based on Cyclic Olefin Copolymer. <i>Materials and Manufacturing Processes</i> , <b>2014</b> , 29, 93-99	4.1	20
36	In-situ sensing, process monitoring and machine control in Laser Powder Bed Fusion: A review. <i>Additive Manufacturing</i> , <b>2021</b> , 45, 102058	6.1	18
35	Pulsed laser deposition of plasmonic nanostructured gold on flexible transparent polymers at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 245303	3	12
34	Advanced production routes for metal matrix composites. <i>Engineering Reports</i> , <b>2021</b> , 3, e12330	1.2	12
33	Powder processing methodology for production of graphene oxide reinforced aluminium matrix composites. <i>Advances in Materials and Processing Technologies</i> , <b>2016</b> , 2, 437-450	0.8	9

32	Taguchi method modelling of Nd:YAG laser ablation of microchannels on cyclic olefin polymer film. <i>Optics and Laser Technology</i> , <b>2018</b> , 106, 265-271	4.2	8
31	Demonstration of an optical biosensor for the detection of faecal indicator bacteria in freshwater and coastal bathing areas. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 7637-7643	4.4	8
30	Nanoparticle functionalized laser patterned substrate: an innovative route towards low cost biomimetic platforms. <i>RSC Advances</i> , <b>2017</b> , 7, 8060-8069	3.7	6
29	Viscoelastic impact characterisation of solid sports balls used in the Irish sport of Hurling. <i>Sports Engineering</i> , <b>2011</b> , 14, 15-25	1.4	6
28	XPS, SEM, DSC and Nanoindentation Characterization of Silver Nanoparticle-Coated Biopolymer Pellets. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7706	2.6	6
27	Fibre coupled micro-light emitting diode array light source with integrated band-pass filter for fluorescence detection in miniaturised analytical systems. <i>Analytica Chimica Acta</i> , <b>2015</b> , 871, 85-92	6.6	5
26	Comparing the adhesion strength of 316L stainless steel joints after laser surface texturing by CO2 and fiber lasers. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 109, 1059-1069	3.2	5
25	Corrosion behaviour of rolled A356 matrix composite reinforced with ceramic particles. <i>International Journal of Materials Research</i> , <b>2016</b> , 107, 1100-1111	0.5	4
24	Laser machined macro and micro structures on glass for enhanced light trapping in solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 110, 661-665	2.6	4
23	Prediction of Mechanical Properties of Graphene Oxide Reinforced Aluminum Composites. <i>Metals</i> , <b>2019</b> , 9, 1077	2.3	4
22	Review of Materials and Fabrication Methods for Flexible Nano and Micro-Scale Physical and Chemical Property Sensors. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8563	2.6	4
21	Laser micro-engineering of functionalised cyclic olefin polymers for microfluidic applications <b>2015</b> ,		3
20	Stable nano-silver colloid production via Laser Ablation Synthesis in Solution (LASiS) under laminar recirculatory flow. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 6, 677-685	0.8	3
19	An Evaluation of Classification Methods for 3D Printing Time-Series Data. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 8211-8216	0.7	3
18	Multi-Material Production of 4D Shape Memory Polymer Composites <b>2021</b> , 879-894		3
17	Real-time monitoring and control for high-efficiency autonomous laser fabrication of silicon nanoparticle colloids. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 114, 291-304	3.2	3
16	Fast Ferroelectric Liquid Crystal Based Optical Switch: Simulation and Experiments. <i>Crystals</i> , <b>2019</b> , 9, 388	2.3	2
15	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. <i>Nano Structures Nano Objects</i> , <b>2022</b> , 29, 100841	5.6	2

14	Laser-assisted synthesis of ultrapure nanostructures for biological sensing applications <b>2016</b> ,		2
13	Design and Build of a Tele-Operated and Robot-Assisted Multi-Material 3D Printer System <b>2019</b> ,		2
12	Review of Recent Research Trends in Assistive Technologies for Rehabilitation <b>2019</b> ,		2
11	Advanced Characterisation Techniques for Nanostructures <b>2018</b> , 55-93		1
10	Modelling and optimisation of single-step laser-based gold nanostructure deposition with tunable optical properties. <i>Optics and Laser Technology</i> , <b>2018</b> , 108, 295-305	4.2	1
9	Investigating the effect of the high power and high speed CO2 laser surface melting on the residual stresses and corrosion resistance of 316L stainless steel <b>2018</b> ,		1
8	Interaction between essential trace and toxic elements in the scalp hair samples of smokers and alcohol user diabetics. <i>International Journal of Diabetes in Developing Countries</i> , <b>2012</b> , 32, 151-162	0.8	1
7	Effect of liquid medium and laser processing parameters on the fabrication of carbon nanoparticles via pulsed laser ablation in liquid towards paper electronics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 636, 128151	5.1	1
6	Fabrication of microstructured planar chromatography platforms via laser ablation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1-6	1.3	1
5	Electrochemical and chronoamperometry assessment of nano-gold sensor surfaces produced via novel laser fabrication methods. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 880, 114813	4.1	1
4	Surface Functionalized MXenes for Wastewater Treatment: A Comprehensive Review. <i>Global Challenges</i> , 2100120	4.3	1
3	Digitisation of metal AM for part microstructure and property control.. <i>International Journal of Material Forming</i> , <b>2022</b> , 15, 30	2	0
2	Laryngoscope burn risk in neonatal intubation. <i>European Journal of Pediatrics</i> , <b>2019</b> , 178, 1125-1127	4.1	
1	Enhanced organic species identification via laser structuring of carbon monolithic surfaces. <i>Applied Surface Science</i> , <b>2019</b> , 493, 829-837	6.7	