

# Ronan McCann

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,264  
citations

471061

17  
h-index

377514

34  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stir casting process for manufacture of Al-SiC composites. <i>Rare Metals</i> , 2017, 36, 581-590.	3.6	171
2	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , 2020, 32, 147-177.	8.3	110
3	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , 2021, 43, 99-131.	8.3	107
4	In-situ sensing, process monitoring and machine control in Laser Powder Bed Fusion: A review. <i>Additive Manufacturing</i> , 2021, 45, 102058.	1.7	73
5	Surface modification of polymers for biocompatibility via exposure to extreme ultraviolet radiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3298-3310.	2.1	71
6	Laser Polishing of Additive Manufactured 316L Stainless Steel Synthesized by Selective Laser Melting. <i>Materials</i> , 2019, 12, 991.	1.3	66
7	Advances in Selective Laser Melting of Nitinol Shape Memory Alloy Part Production. <i>Materials</i> , 2019, 12, 809.	1.3	59
8	Study of the plastic deformation mechanism of TRIP-TWIP high entropy alloys at the atomic level. <i>International Journal of Plasticity</i> , 2020, 127, 102649.	4.1	59
9	Advanced production routes for metal matrix composites. <i>Engineering Reports</i> , 2021, 3, e12330.	0.9	56
10	Laser assisted synthesis of carbon nanoparticles with controlled viscosities for printing applications. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 263-268.	5.0	52
11	Liquid Phase Pulsed Laser Ablation: A route to fabricate different carbon nanostructures. <i>Applied Surface Science</i> , 2014, 302, 141-144.	3.1	48
12	ColiSense, today's sample today: A rapid on-site detection of $\beta$ -D-Glucuronidase activity in surface water as a surrogate for E. coli. <i>Talanta</i> , 2016, 148, 75-83.	2.9	39
13	Microchannel fabrication on cyclic olefin polymer substrates via 1064 nm Nd:YAG laser ablation. <i>Applied Surface Science</i> , 2016, 387, 603-608.	3.1	33
14	Fast Fabrication Process of Microfluidic Devices Based on Cyclic Olefin Copolymer. <i>Materials and Manufacturing Processes</i> , 2014, 29, 93-99.	2.7	29
15	Manufacturing of cast A356 matrix composite reinforced with nano- to micrometer-sized SiC particles. <i>Rare Metals</i> , 2017, 36, 46-54.	3.6	24
16	XPS, SEM, DSC and Nanoindentation Characterization of Silver Nanoparticle-Coated Biopolymer Pellets. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7706.	1.3	23
17	Pulsed laser deposition of plasmonic nanostructured gold on flexible transparent polymers at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 245303.	1.3	19
18	Review of Materials and Fabrication Methods for Flexible Nano and Micro-Scale Physical and Chemical Property Sensors. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8563.	1.3	17

#	ARTICLE	IF	CITATIONS
19	Effect of liquid medium and laser processing parameters on the fabrication of carbon nanoparticles via pulsed laser ablation in liquid towards paper electronics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128151.	2.3	17
20	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. Nano Structures Nano Objects, 2022, 29, 100841.	1.9	14
21	Surface Functionalized MXenes for Wastewater Treatment – A Comprehensive Review. Global Challenges, 2022, 6, .	1.8	14
22	Real-time monitoring and control for high-efficiency autonomous laser fabrication of silicon nanoparticle colloids. International Journal of Advanced Manufacturing Technology, 2021, 114, 291-304.	1.5	12
23	Demonstration of an optical biosensor for the detection of faecal indicator bacteria in freshwater and coastal bathing areas. Analytical and Bioanalytical Chemistry, 2019, 411, 7637-7643.	1.9	11
24	Powder processing methodology for production of graphene oxide reinforced aluminium matrix composites. Advances in Materials and Processing Technologies, 2016, 2, 437-450.	0.8	10
25	Comparing the adhesion strength of 316L stainless steel joints after laser surface texturing by CO <sub>2</sub> and fiber lasers. International Journal of Advanced Manufacturing Technology, 2020, 109, 1059-1069.	1.5	10
26	A Magnetic Nanoparticle-Doped Photopolymer for Holographic Recording. Polymers, 2022, 14, 1858.	2.0	10
27	Nanoparticle functionalized laser patterned substrate: an innovative route towards low cost biomimetic platforms. RSC Advances, 2017, 7, 8060-8069.	1.7	9
28	An Evaluation of Classification Methods for 3D Printing Time-Series Data. IFAC-PapersOnLine, 2020, 53, 8211-8216.	0.5	9
29	Taguchi method modelling of Nd:YAG laser ablation of microchannels on cyclic olefin polymer film. Optics and Laser Technology, 2018, 106, 265-271.	2.2	8
30	Review of Recent Research Trends in Assistive Technologies for Rehabilitation. , 2019, , .		8
31	Magnesium nanoparticle synthesis from powders via LASIS – Effects of liquid medium, laser pulse width and ageing on nanoparticle size, concentration, stability and electrical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129651.	2.3	8
32	Viscoelastic impact characterisation of solid sports balls used in the Irish sport of Hurling. Sports Engineering, 2011, 14, 15-25.	0.5	7
33	Stable nano-silver colloid production via Laser Ablation Synthesis in Solution (LASiS) under laminar recirculatory flow. Advances in Materials and Processing Technologies, 2020, 6, 677-685.	0.8	7
34	Laser machined macro and micro structures on glass for enhanced light trapping in solar cells. Applied Physics A: Materials Science and Processing, 2013, 110, 661-665.	1.1	6
35	Digitisation of metal AM for part microstructure and property control. International Journal of Material Forming, 2022, 15, 30.	0.9	6
36	Fibre coupled micro-light emitting diode array light source with integrated band-pass filter for fluorescence detection in miniaturised analytical systems. Analytica Chimica Acta, 2015, 871, 85-92.	2.6	5

#	ARTICLE	IF	CITATIONS
37	Corrosion behaviour of rolled A356 matrix composite reinforced with ceramic particles. International Journal of Materials Research, 2016, 107, 1100-1111.	0.1	5
38	Prediction of Mechanical Properties of Graphene Oxide Reinforced Aluminum Composites. Metals, 2019, 9, 1077.	1.0	4
39	Multi-Material Production of 4D Shape Memory Polymer Composites. , 2021, , 879-894.		4
40	Laser micro-engineering of functionalised cyclic olefin polymers for microfluidic applications. Proceedings of SPIE, 2015, , .	0.8	3
41	Modelling and optimisation of single-step laser-based gold nanostructure deposition with tunable optical properties. Optics and Laser Technology, 2018, 108, 295-305.	2.2	3
42	Fast Ferroelectric Liquid Crystal Based Optical Switch: Simulation and Experiments. Crystals, 2019, 9, 388.	1.0	3
43	Design and Build of a Tele-Operated and Robot-Assisted Multi-Material 3D Printer System. , 2019, , .		3
44	Laser-assisted synthesis of ultrapure nanostructures for biological sensing applications. Proceedings of SPIE, 2016, , .	0.8	2
45	Advanced Characterisation Techniques for Nanostructures. , 2018, , 55-93.		2
46	Electrochemical and chronoamperometry assessment of nano-gold sensor surfaces produced via novel laser fabrication methods. Journal of Electroanalytical Chemistry, 2021, 880, 114813.	1.9	2
47	Prediction of Microstructure for AISI316L Steel from Numerical Simulation of Laser Powder Bed Fusion. Metals and Materials International, 2022, 28, 2735-2746.	1.8	2
48	Interaction between essential trace and toxic elements in the scalp hair samples of smokers and alcohol user diabetics. International Journal of Diabetes in Developing Countries, 2012, 32, 151-162.	0.3	1
49	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. AIP Conference Proceedings, 2018, , .	0.3	1
50	Laryngoscope burn risk in neonatal intubation. European Journal of Pediatrics, 2019, 178, 1125-1127.	1.3	1
51	Fabrication of microstructured planar chromatography platforms via laser ablation. Journal of Liquid Chromatography and Related Technologies, 0, , 1-6.	0.5	1
52	Parametric study for graphene reinforced aluminum matrix composites production using Box Behnken design. AIP Conference Proceedings, 2017, , .	0.3	0
53	Laser surface texturing for the improvement of press-fit joint bond strength. AIP Conference Proceedings, 2019, , .	0.3	0
54	Enhanced organic species identification via laser structuring of carbon monolithic surfaces. Applied Surface Science, 2019, 493, 829-837.	3.1	0