Niall A Smyth

List of Publications by Year
in descending order

8 papers	189 citations	1684188 5 h-index	1720034 7 g-index
8 all docs	8 docs citations	8 times ranked	172 citing authors

#	Article	IF	Citations
1	Effect of laser shock peening on residual stress and fatigue life of clad 2024 aluminium sheet containing scribe defects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 548, 142-151.	5.6	110
2	Recovery of fatigue life using laser peening on 2024â€T351 aluminium sheet containing scratch damage: The role of residual stress. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1161-1174.	3.4	22
3	The effect of material cyclic deformation properties on residual stress generation by laser shock processing. International Journal of Mechanical Sciences, 2019, 156, 370-381.	6.7	21
4	Low cycle fatigue life prediction in shotâ€peened components of different geometriesâ€”part I: residual stress relaxation. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 761-775.	3.4	19
5	Machine Learning-Based Prediction and Optimisation System for Laser Shock Peening. Applied Sciences (Switzerland), 2021, 11, 2888.	2.5	12
6	Fatigue Life Recovery via Laser Shock Peening in Mechanically Damaged Aluminium Sheet; Experiments and Prediction Models. Advanced Materials Research, 0, 891-892, 980-985.	0.3	2
7	Effect of Treatment Area on Residual Stress and Fatigue in Laser Peened Aluminum Sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1519-1523.	2.2	2
8	On the measurement of residual stresses in fibre metal laminates. International Journal of Advanced Manufacturing Technology, 2021, 113, 1663-1671.	3.0	1