Daniel M Mulvihill

List of Publications by Year
in descending order

21	602	759233 12	888059 17
papers	citations	h-index	g-index

21	21	21	350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An elasticâ€“plastic asperity interaction model for sliding friction. Tribology International, 2011, 44, 1679-1694.	5.9	94
2	Origin of the contact force-dependent response of triboelectric nanogenerators. Nano Energy, 2021, 83, 105829.	16.0	70
3	Opportunities and Challenges in Triboelectric Nanogenerator (TENG) based Sustainable Energy Generation Technologies: A Mini-Review. Chemical Engineering Journal Advances, 2022, 9, 100237.	5.2	65
4	Measurements of pressure and area dependent tangential contact stiffness between rough surfaces using digital image correlation. Tribology International, 2011, 44, 1188-1198.	5.9	63
5	A unified contact force-dependent model for triboelectric nanogenerators accounting for surface roughness. Nano Energy, 2020, 76, 105067.	16.0	57
6	Ferroelectric-assisted high-performance triboelectric nanogenerators based on electrospun P(VDF-TrFE) composite nanofibers with barium titanate nanofillers. Nano Energy, 2021, 90, 106600.	16.0	52
7	Friction of carbon fibre tows. Composites Part A: Applied Science and Manufacturing, 2017, 93, 185-198.	7.6	41
8	Electrode materials for stretchable triboelectric nanogenerator in wearable electronics. RSC Advances, 2022, 12, 10545-10572.	3.6	37
9	Triboelectric Nanogenerator With Enhanced Performance via an Optimized Low Permittivity Substrate. IEEE Sensors Journal, 2020, 20, 6856-6862.	4.7	34
10	Effect of tool surface topography on friction with carbon fibre tows for composite fabric forming. Composites Part A: Applied Science and Manufacturing, 2017, 93, 199-206.	7.6	23
11	Enhancing strength and toughness of adhesive joints via micro-structured mechanical interlocking. International Journal of Adhesion and Adhesives, 2021, 105, 102775.	2.9	18
12	Frictional behaviour of non-crimp fabrics (NCFs) in contact with a forming tool. Tribology International, 2018, 121, 71-77.	5.9	12
13	Friction of flat and micropatterned interfaces with nanoscale roughness. Tribology International, 2021, 153, 106563.	5.9	7
14	Flexible Inserts for Injection Molding of Complex Microâ€Structured Polymer Components. Macromolecular Materials and Engineering, 2021, 306, 2100223.	3.6	6
15	Tailorable and Repeatable Normal Contact Stiffness via Micropatterned Interfaces. Tribology Letters, 2021, 69, 1.	2.6	6
16	Induction melt thermoforming of advanced multi-axial thermoplastic composite laminates. Journal of Manufacturing Processes, 2020, 60, 673-683.	5.9	5
17	Finite element modelling of the single fibre composite fragmentation test with comparison to experiments. Journal of Composite Materials, 2022, 56, 2765-2778.	2.4	5
18	A wide range self-powered flexible pressure sensor based on triboelectric nanogenerator. , 2021, , .		3

#	Article	IF	Citations
19	Enhanced Triboelectric Nanogenerator Performance via an Optimised Low Permittivity, Low Thickness Substrate. , 2018, , .		2
20	Gecko-inspired dry adhesives for heritage conservation â€“ tackling the surface roughness with empirical testing and finite element modelling. Journal of Adhesion Science and Technology, 2023, 37, 1091-1116.	2.6	1
21	Textile Triboelectric Nanogenerators as Self Powered Wearable Temperature Sensors. , 2022, , .		1