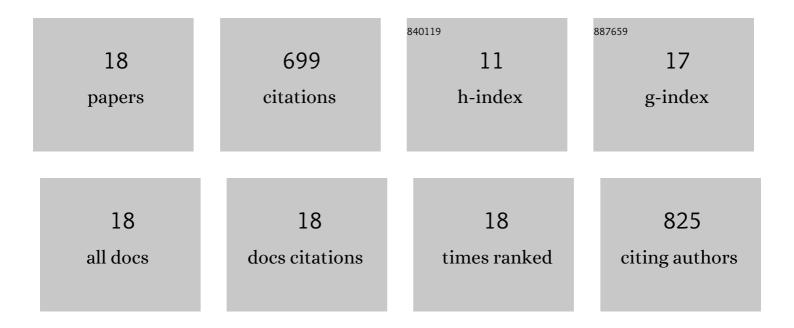
Jack Donoghue

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effectiveness of combining rolling deformation with Wire–Arc Additive Manufacture on β-grain refinement and texture modification in Ti–6Al–4V. Materials Characterization, 2016, 114, 103-114.	1.9	245
2	Application of bulk deformation methods for microstructural and material property improvement and residual stress and distortion control in additively manufactured components. Scripta Materialia, 2017, 135, 111-118.	2.6	141
3	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. ACS Nano, 2019, 13, 2136-2142.	7.3	63
4	Multiscale analysis of grain boundary microstructure in high strength 7xxx Al alloys. Acta Materialia, 2021, 202, 190-210.	3.8	47
5	On the observation of annealing twins during simulating β-grain refinement in Ti–6Al–4V high deposition rate AM with in-process deformation. Acta Materialia, 2020, 186, 229-241.	3.8	33
6	The heterogenous distribution of white etching matter (WEM) around subsurface cracks in bearing steels. Acta Materialia, 2019, 174, 300-309.	3.8	31
7	Evolution of thermal conductivity of dysprosia stabilised thermal barrier coating systems during heat treatment. Surface and Coatings Technology, 2012, 209, 38-43.	2.2	27
8	Multi-dimensional study of the effect of early slip activity on fatigue crack initiation in a near-α titanium alloy. Acta Materialia, 2022, 233, 117967.	3.8	24
9	Towards Phosphate Detection in Hydroponics Using Molecularly Imprinted Polymer Sensors. Sensors, 2018, 18, 531.	2.1	22
10	A comparative study on the performance of suspension plasma sprayed thermal barrier coatings with different bond coat systems. Surface and Coatings Technology, 2015, 275, 276-282.	2.2	21
11	Tracking polycrystal evolution non-destructively in 3D by laboratory X-ray diffraction contrast tomography. Materials Characterization, 2021, 172, 110814.	1.9	16
12	On the Application of Xe+ Plasma FIB for Micro-fabrication of Small-scale Tensile Specimens. Experimental Mechanics, 2019, 59, 1113-1125.	1.1	9
13	Strain based electrical resistance behaviour of graphene-coated elastomeric yarns. Materials Letters, 2020, 273, 127948.	1.3	6
14	Large-scale serial sectioning of environmentally assisted cracks in 7xxx Al alloys using femtosecond laser-PFIB. Materials Characterization, 2022, 188, 111890.	1.9	6
15	Analysis of the Development of Abnormal Grains Structures During Beta Annealing of Ti-64 Wrought Products. MATEC Web of Conferences, 2020, 321, 12043.	0.1	3
16	The evolution of abnormally coarse grain structures in beta-annealed Ti-6Al%-4V% rolled plates, observed by in-situ investigation. Acta Materialia, 2021, 221, 117362.	3.8	3
17	Correlative Tomography - Bridging the length-scales through correlative X-ray and Electron Imaging. Microscopy and Microanalysis, 2021, 27, 932-933.	0.2	2
18	Toward a Mechanistic Understanding of Pellet Cladding Interaction Using Advanced 3D		0

Characterization and Atomistic Simulation. , 2021, , 904-926.