

# Jack Donoghue

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8470118/publications.pdf>

Version: 2024-02-01

18  
papers

699  
citations

840119

11  
h-index

887659

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

825  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The effectiveness of combining rolling deformation with Wire Arc Additive Manufacture on $\hat{\Gamma}^2$ -grain refinement and texture modification in Ti-6Al-4V. <i>Materials Characterization</i> , 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. <i>Scripta Materialia</i> , 2017, 135, 111-118. | 2.6 | 141       |
| 3  | Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , 2019, 13, 2136-2142.  | 7.3 | 63        |
| 4  | Multiscale analysis of grain boundary microstructure in high strength 7xxx Al alloys. <i>Acta Materialia</i> , 2021, 202, 190-210.  | 3.8 | 47        |
| 5  | On the observation of annealing twins during simulating $\hat{\Gamma}^2$ -grain refinement in Ti-6Al-4V high deposition rate AM with in-process deformation. <i>Acta Materialia</i> , 2020, 186, 229-241.                       | 3.8 | 33        |
| 6  | The heterogenous distribution of white etching matter (WEM) around subsurface cracks in bearing steels. <i>Acta Materialia</i> , 2019, 174, 300-309.  | 3.8 | 31        |
| 7  | Evolution of thermal conductivity of dysprosia stabilised thermal barrier coating systems during heat treatment. <i>Surface and Coatings Technology</i> , 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- $\hat{\Gamma}^2$ titanium alloy. <i>Acta Materialia</i> , 2022, 233, 117967.  | 3.8 | 24        |
| 9  | Towards Phosphate Detection in Hydroponics Using Molecularly Imprinted Polymer Sensors. <i>Sensors</i> , 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. <i>Surface and Coatings Technology</i> , 2015, 275, 276-282.                                     | 2.2 | 21        |
| 11 | Tracking polycrystal evolution non-destructively in 3D by laboratory X-ray diffraction contrast tomography. <i>Materials Characterization</i> , 2021, 172, 110814.  | 1.9 | 16        |
| 12 | On the Application of Xe+ Plasma FIB for Micro-fabrication of Small-scale Tensile Specimens. <i>Experimental Mechanics</i> , 2019, 59, 1113-1125.   | 1.1 | 9         |
| 13 | Strain based electrical resistance behaviour of graphene-coated elastomeric yarns. <i>Materials Letters</i> , 2020, 273, 127948.  | 1.3 | 6         |
| 14 | Large-scale serial sectioning of environmentally assisted cracks in 7xxx Al alloys using femtosecond laser-PFIB. <i>Materials Characterization</i> , 2022, 188, 111890.   | 1.9 | 6         |
| 15 | Analysis of the Development of Abnormal Grains Structures During Beta Annealing of Ti-64 Wrought Products. <i>MATEC Web of Conferences</i> , 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. <i>Acta Materialia</i> , 2021, 221, 117362.   | 3.8 | 3         |
| 17 | Correlative Tomography - Bridging the length-scales through correlative X-ray and Electron Imaging. <i>Microscopy and Microanalysis</i> , 2021, 27, 932-933.  | 0.2 | 2         |
| 18 | Toward a Mechanistic Understanding of Pellet Cladding Interaction Using Advanced 3D Characterization and Atomistic Simulation. , 2021, , 904-926.   |     | 0         |