

# Lukas Petrich

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7592582/publications.pdf>

Version: 2024-02-01

8  
papers

151  
citations

1684188  
5  
h-index

1720034  
7  
g-index

8  
all docs

8  
docs citations

8  
times ranked

197  
citing authors

| # | ARTICLE  | IF  | CITATIONS |
|---|--|-----|-----------|
| 1 | Artificial generation of representative single Li-ion electrode particle architectures from microscopy data. <i>Npj Computational Materials</i> , 2021, 7, .         | 8.7 | 21        |
| 2 | Efficient Fitting of 3D Tessellations to Curved Polycrystalline Grain Boundaries. <i>Frontiers in Materials</i> , 2021, 8, .   | 2.4 | 3         |
| 3 | Numerical microstructure model of NiTi wire reconstructed from 3D-XRD data. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 055007. | 2.0 | 5         |
| 4 | Detection of <i>Colchicum autumnale</i> in drone images, using a machine-learning approach. <i>Precision Agriculture</i> , 2020, 21, 1291-1303.                      | 6.0 | 12        |
| 5 | Reconstruction of Grains in Polycrystalline Materials From Incomplete Data Using Laguerre Tessellations. <i>Microscopy and Microanalysis</i> , 2019, 25, 743-752.    | 0.4 | 10        |
| 6 | Machine Learning Techniques for the Segmentation of Tomographic Image Data of Functional Materials. <i>Frontiers in Materials</i> , 2019, 6, .                       | 2.4 | 59        |
| 7 | Crack detection in lithium-ion cells using machine learning. <i>Computational Materials Science</i> , 2017, 136, 297-305.  | 3.0 | 39        |
| 8 | Analysis of polycrystalline microstructure of AlMgSc alloy observed by 3D EBSD. <i>Image Analysis and Stereology</i> , 0, , .  | 0.9 | 2         |