

# Jialin Lei

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3975217/publications.pdf>

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13  
papers

363  
citations

1162889

8  
h-index

1281743

11  
g-index

15  
all docs

15  
docs citations

15  
times ranked

544  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Texture of Nanocrystalline Nickel: Probing the Lower Size Limit of Dislocation Activity. <i>Science</i> , 2012, 338, 1448-1451.   | 6.0  | 101       |
| 2  | Superhard Monoborides: Hardness Enhancement through Alloying in W <sub>x</sub> Ta <sub>x</sub> B. <i>Advanced Materials</i> , 2016, 28, 6993-6998.  | 11.1 | 75        |
| 3  | Detecting grain rotation at the nanoscale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3350-3353.   | 3.3  | 54        |
| 4  | Superhard Rhenium/Tungsten Diboride Solid Solutions. <i>Journal of the American Chemical Society</i> , 2016, 138, 14398-14408.  | 6.6  | 48        |
| 5  | Reversal in the Size Dependence of Grain Rotation. <i>Physical Review Letters</i> , 2017, 118, 096101.  | 2.9  | 26        |
| 6  | Synthesis and High-Pressure Mechanical Properties of Superhard Rhenium/Tungsten Diboride Nanocrystals. <i>ACS Nano</i> , 2019, 13, 10036-10048.   | 7.3  | 12        |
| 7  | Radial X-ray Diffraction Study of Superhard Early Transition Metal Dodecaborides under High Pressure. <i>Advanced Functional Materials</i> , 2019, 29, 1900293.   | 7.8  | 12        |
| 8  | Understanding How Bonding Controls Strength Anisotropy in Hard Materials by Comparing the High-Pressure Behavior of Orthorhombic and Tetragonal Tungsten Monoboride. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5647-5656. | 1.5  | 10        |
| 9  | Grain Rotation in Plastic Deformation. <i>Quantum Beam Science</i> , 2019, 3, 17.   | 0.6  | 10        |
| 10 | Understanding the mechanism of hardness enhancement in tantalum-substituted tungsten monoboride solid solutions. <i>Journal of Applied Physics</i> , 2019, 125, .   | 1.1  | 9         |
| 11 | Structural and mechanical stability of dilute yttrium doped chromium. <i>Applied Physics Letters</i> , 2013, 102, 021901.   | 1.5  | 4         |
| 12 | Unexpected pressure induced ductileness tuning in sulfur doped polycrystalline nickel metal. <i>AIP Advances</i> , 2018, 8, 025216.   | 0.6  | 0         |
| 13 | Performance of Carbide Alloy Compounds in Carbon Doped MoNbTaW. <i>Crystals</i> , 2021, 11, 1073.   | 1.0  | 0         |