

# Tushar Gupta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3430239/publications.pdf>

Version: 2024-02-01

17  
papers

1,034  
citations

623734

14  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

2298  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Phosphorene as a Polysulfide Immobilizer and Catalyst in High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1602734.  | 21.0 | 289       |
| 2  | A novel approach to enhance the thermal conductivity of epoxy nanocomposites using graphene core-shell additives. <i>Carbon</i> , 2016, 101, 239-244.   | 10.3 | 128       |
| 3  | Protecting Silicon Film Anodes in Lithium-Ion Batteries Using an Atomically Thin Graphene Drape. <i>ACS Nano</i> , 2017, 11, 5051-5061.   | 14.6 | 113       |
| 4  | In situ healing of dendrites in a potassium metal battery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5588-5594.   | 7.1  | 79        |
| 5  | An Environmentally Stable and Lead-Free Chalcogenide Perovskite. <i>Advanced Functional Materials</i> , 2020, 30, 2001387.  | 14.9 | 52        |
| 6  | Utilizing a graphene matrix to overcome the intrinsic limitations of red phosphorus as an anode material in lithium-ion batteries. <i>Carbon</i> , 2018, 127, 588-595.  | 10.3 | 50        |
| 7  | Utilizing van der Waals Slippery Interfaces to Enhance the Electrochemical Stability of Silicon Film Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13442-13451.  | 8.0  | 48        |
| 8  | Effects of Defects on the Temperature-Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1704357.  | 14.9 | 44        |
| 9  | Humidity sensing using vertically oriented arrays of ReS <sub>2</sub> nanosheets deposited on an interdigitated gold electrode. <i>2D Materials</i> , 2016, 3, 045012.  | 4.4  | 42        |
| 10 | Aqueous lithium-ion batteries with niobium tungsten oxide anodes for superior volumetric and rate capability. <i>Energy Storage Materials</i> , 2020, 27, 506-513.  | 18.0 | 40        |
| 11 | Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. <i>ACS Nano</i> , 2019, 13, 14094-14106.  | 14.6 | 36        |
| 12 | Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS <sub>2</sub> Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1801286.   | 14.9 | 35        |
| 13 | Studies of the electronic excitation modifications induced by SHI of Au ions in RF sputtered ZrO <sub>2</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 262-272.   | 4.0  | 33        |
| 14 | Influence of 120 MeV S <sup>9+</sup> ion irradiation on structural, optical and morphological properties of zirconium oxide thin films deposited by RF sputtering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 898-907. | 2.1  | 21        |
| 15 | Local ferroelectric polarization in antiferroelectric chalcogenide perovskite BaZrS <sub>3</sub> thin films. <i>Physical Review B</i> , 2020, 102, .  | 3.2  | 13        |
| 16 | Orientation-Controlled Large-Area Epitaxial PbI <sub>2</sub> Thin Films with Tunable Optical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32450-32460.   | 8.0  | 6         |
| 17 | Comparative study on the antioxidation behaviors of polycrystalline multilayer and single-crystalline monolayer graphene. <i>2D Materials</i> , 2019, 6, 015020.  | 4.4  | 5         |