

# Tula Paudel

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,533  
citations

257450

24  
h-index

289244

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4549  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Electronic reconstruction at the polar (111)-oriented oxide interface. APL Materials, 2022, 10, .  | 5.1  | 2         |
| 2  | Modifying magnetic properties of MnBi with carbon: an experimental and theoretical study. Journal Physics D: Applied Physics, 2022, 55, 265003.  | 2.8  | 4         |
| 3  | <i>Ab initio</i> study of alloying of MnBi to enhance the energy product. RSC Advances, 2021, 11, 30955-30960.   | 3.6  | 3         |
| 4  | In-plane quasi-single-domain BaTiO <sub>3</sub> via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784.   | 12.8 | 16        |
| 5  | Epitaxial antiperovskite/perovskite heterostructures for materials design. Science Advances, 2020, 6, eaba4017.  | 10.3 | 18        |
| 6  | Colossal flexoresistance in dielectrics. Nature Communications, 2020, 11, 2586.  | 12.8 | 21        |
| 7  | Strain-driven disproportionation at a correlated oxide metal-insulator transition. Physical Review B, 2020, 101, .   | 3.2  | 26        |
| 8  | Evaluating the Thermoelectric Properties of BaTiS <sub>3</sub> by Density Functional Theory. ACS Omega, 2020, 5, 12385-12390.  | 3.5  | 10        |
| 9  | Anisotropic spin-orbit torque generation in epitaxial SrIrO <sub>3</sub> by symmetry design. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16186-16191.        | 7.1  | 73        |
| 10 | Influence of the Cation on the Surface Electronic Band Structure and Magnetic Properties of Mn:ZnS and Mn:CdS Quantum Dot Thin Films. Journal of Physical Chemistry C, 2019, 123, 24890-24898.               | 3.1  | 10        |
| 11 | Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. Nature Communications, 2019, 10, 537.   | 12.8 | 64        |
| 12 | Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90.  | 27.8 | 398       |
| 13 | Controlling the Magnetic Properties of LaMnO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures by Stoichiometry and Electronic Reconstruction: Atomic-scale Evidence. Advanced Materials, 2019, 31, 1901386. | 21.0 | 27        |
| 14 | Spin Filtering in CrI <sub>3</sub> Tunnel Junctions. ACS Applied Materials & Interfaces, 2019, 11, 15781-15787.  | 8.0  | 71        |
| 15 | Absorption enhancement by transition metal doping in ZnS. Materials Research Express, 2019, 6, 126550.   | 1.6  | 7         |
| 16 | Electrically reversible magnetization at the antiperovskite/perovskite interface. Physical Review Materials, 2019, 3, .  | 2.4  | 10        |
| 17 | Anomalous Hall conductivity of noncollinear magnetic antiperovskites. Physical Review Materials, 2019, 3, .  | 2.4  | 50        |
| 18 | Direct observation of a two-dimensional hole gas at oxide interfaces. Nature Materials, 2018, 17, 231-236.   | 27.5 | 151       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.   | 31.5 | 40        |
| 20 | Tunneling Hot Spots in Ferroelectric SrTiO <sub>3</sub> . Nano Letters, 2018, 18, 491-497.   | 9.1  | 30        |
| 21 | Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-to-Plane Ferroelectric/Semiconductor Junctions. Advanced Functional Materials, 2018, 28, 1704337. | 14.9 | 21        |
| 22 | Isostructural metal-insulator transition in VO <sub>2</sub> . Science, 2018, 362, 1037-1040.   | 12.6 | 158       |
| 23 | Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.   | 31.5 | 53        |
| 24 | Ambipolar ferromagnetism by electrostatic doping of a manganite. Nature Communications, 2018, 9, 1897.   | 12.8 | 51        |
| 25 | Contributions of the lead-bromine weighted bands to the occupied density of states of the hybrid tri-bromide perovskites. Applied Physics Letters, 2018, 113, 022101.          | 3.3  | 6         |
| 26 | Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. Nature Communications, 2018, 9, 3319.       | 12.8 | 81        |
| 27 | Spin-polarized two-dimensional electron gas at GdTiO <sub>3</sub> /SrTiO <sub>3</sub> interfaces: Insight from first-principles calculations. Physical Review B, 2017, 96, .   | 12.8 | 27        |
| 28 | Electronic structure and direct observation of ferrimagnetism in multiferroic hexagonal YbFeO <sub>3</sub> . Physical Review B, 2017, 95, .                                    | 12.8 | 27        |
| 29 | In-situ probing of coupled atomic restructuring and metallicity of oxide heterointerfaces induced by polar adsorbates. Applied Physics Letters, 2017, 111, 141604.             | 3.3  | 2         |
| 30 | Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. Journal of Physical Chemistry C, 2016, 120, 21710-21715.                                | 3.1  | 58        |
| 31 | Electronic structure and stability of the CaH <sub>3</sub> N. Physical Review B, 2015, 92, .   | 3.2  | 49        |
| 32 | Hexagonal rare-earth manganites as promising photovoltaics and light polarizers. Physical Review B, 2015, 92, .  | 3.2  | 100       |
| 33 | Electromechanics of Ferroelectric-Like Behavior of LaAlO <sub>3</sub> Thin Films. Advanced Functional Materials, 2015, 25, 6538-6544.  | 14.9 | 42        |
| 34 | Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037.  | 21.0 | 59        |
| 35 | Imaging and control of ferromagnetism in LaMnO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Science, 2015, 349, 716-719.   | 12.6 | 153       |
| 36 | Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.   | 12.6 | 259       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | New view of the occupied band structure of Mo(112). Physical Review B, 2012, 85, .   | 3.2  | 9         |
| 38 | Switchable Induced Polarization in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. Nano Letters, 2012, 12, 1765-1771.                   | 9.1  | 167       |
| 39 | Doping Rules and Doping Prototypes in A <sub>2</sub> BO <sub>4</sub> Spinel Oxides. Advanced Functional Materials, 2011, 21, 4493-4501.          | 14.9 | 176       |
| 40 | Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. Advanced Electronic Materials, 0, , 2101059. | 5.1  | 5         |