

Roshan Jesus Mathew

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Near-Infrared Electroluminescent Light-Emitting Transistors Based on CVD-Synthesized Ambipolar ReSe ₂ Nanosheets. <i>Advanced Optical Materials</i> , 2022, 10, . | 3.6 | 3 |
| 2 | A Bi-Anti-Ambipolar Field Effect Transistor. <i>ACS Nano</i> , 2021, 15, 8686-8693. | 7.3 | 30 |
| 3 | Stoichiometry-Controlled Mo _x W _{1-x} Te ₂ Nanowhiskers: A Novel Electrocatalyst for Pt-Free Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34815-34824. | 4.0 | 15 |
| 4 | Tin disulfide piezoelectric nanogenerators for biomechanical energy harvesting and intelligent human-robot interface applications. <i>Nano Energy</i> , 2020, 75, 104879. | 8.2 | 40 |
| 5 | Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26213-26221. | 4.0 | 14 |
| 6 | Doping Engineered InSe Flakes for High Mobility Phototransistor. , 2020, , . | | 1 |
| 7 | High unsaturated room-temperature magnetoresistance in phase-engineered Mo _x W _{1-x} Te ₂ ultrathin films. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10996-11004. | 2.7 | 9 |
| 8 | Sn-Doping Enhanced Ultrahigh Mobility In _{1-x} Sn _x Se Phototransistor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24269-24278. | 4.0 | 17 |
| 9 | Phase-Engineered Weyl Semi-Metallic Mo _x W _{1-x} Te ₂ Nanosheets as a Highly Efficient Electrocatalyst for Dye-Sensitized Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800314. | 3.1 | 14 |
| 10 | One-pot fabrication and characterization of graphene/PMMA composite flexible films. <i>Materials Research Bulletin</i> , 2018, 105, 133-141. | 2.7 | 15 |
| 11 | Ultra-high performance flexible piezopotential gated In _{1-x} Sn _x Se phototransistor. <i>Nanoscale</i> , 2018, 10, 18642-18650. | 2.8 | 13 |
| 12 | High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. <i>Nanoscale</i> , 2016, 8, 2284-2292. | 2.8 | 129 |
| 13 | Curcumin Labeled PMMA Halochromic Smart Flexible Films. <i>Materials Focus</i> , 2016, 5, 177-181. | 0.4 | 1 |
| 14 | PMMA-based Stimuli-responsive Flexible Thin-films. <i>Chemistry Letters</i> , 2013, 42, 1360-1362. | 0.7 | 1 |