# Eswaraiah Varrla

List of Publications by Year
in descending order



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|---|---|---|---|
| 24 papers | 4,590 citations | 394421 19 h-index | 677142 22 g-index |
| 24 all docs | 24 docs citations | 24 times ranked | 7911 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. Nature Materials, 2014, 13, 624-630. | 27.5 | 1,958 |
| 2 | Large-Scale Production of Size-Controlled MoS<sub>2</sub> Nanosheets by Shear Exfoliation. Chemistry of Materials, 2015, 27, 1129-1139. | 6.7 | 389 |
| 3 | Graphene-Based Engine Oil Nanofluids for Tribological Applications. ACS Applied Materials & Interfaces, 2011, 3, 4221-4227. | 8.0 | 366 |
| 4 | Functionalized Grapheneâ€“PVDF Foam Composites for EMI Shielding. Macromolecular Materials and Engineering, 2011, 296, 894-898. | 3.6 | 343 |
| 5 | Black Phosphorus Nanosheets: Synthesis, Characterization and Applications. Small, 2016, 12, 3480-3502. | 10.0 | 337 |
| 6 | Turbulence-assisted shear exfoliation of graphene using household detergent and a kitchen blender. Nanoscale, 2014, 6, 11810-11819. | 5.6 | 241 |
| 7 | Functionalized graphene reinforced thermoplastic nanocomposites as strain sensors in structural health monitoring. Journal of Materials Chemistry, 2011, 21, 12626. | 6.7 | 172 |
| 8 | Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. Journal of Materials Chemistry, 2011, 21, 6800. | 6.7 | 158 |
| 9 | One-pot synthesis of conducting grapheneâ€“polymer composites and their strain sensing application. Nanoscale, 2012, 4, 1258. | 5.6 | 121 |
| 10 | Inorganic nanotubes reinforced polyvinylidene fluoride composites as low-cost electromagnetic interference shielding materials. Nanoscale Research Letters, 2011, 6, 137. | 5.7 | 102 |
| 11 | Facile synthesis of one dimensional graphene wrapped carbon nanotube composites by chemical vapour deposition. Journal of Materials Chemistry, 2011, 21, 15179. | 6.7 | 52 |
| 12 | 2D black phosphorous nanosheets as a hole transporting material in perovskite solar cells. Journal of Power Sources, 2017, 371, 156-161. | 7.8 | 52 |
| 13 | Hexagonal Boron Nitride Nanosheets as Highâ€Performance Binderâ€Free Fireâ€Resistant Wood Coatings. Small, 2017, 13, 1602456. | 10.0 | 50 |
| 14 | Evolution of hydrogen by few-layered black phosphorus under visible illumination. Journal of Materials Chemistry A, 2017, 5, 24874-24879. | 10.3 | 45 |
| 15 | Enhanced UV photodetector performance in bi-layer TiO2/WO3 sputtered films. Applied Surface Science, 2019, 494, 575-582. | 6.1 | 44 |
| 16 | Facile and simultaneous production of metal/metal oxide dispersed graphene nano composites by solar exfoliation. Journal of Materials Chemistry, 2011, 21, 17094. | 6.7 | 39 |
| 17 | An in-field integrated capacitive sensor for rapid detection and quantification of soil moisture. Sensors and Actuators B: Chemical, 2020, 321, 128542. | 7.8 | 38 |
| 18 | Grapheneâ€Functionalized Carbon Nanotubes for Conducting Polymer Nanocomposites and Their Improved Strain Sensing Properties. Macromolecular Chemistry and Physics, 2013, 214, 2439-2444. | 2.2 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Vertical Single-Crystalline Organic Nanowires on Graphene: Solution-Phase Epitaxy and Optical Microcavities. Nano Letters, 2016, 16, 4754-4762. | 9.1 | 24 |
| 20 | A thermally insulating vermiculite nanosheetâ€“epoxy nanocomposite paint as a fire-resistant wood coating. Nanoscale Advances, 2021, 3, 4235-4243. | 4.6 | 16 |
| 21 | Electromagnetic interference (EMI) shielding of carbon nanostrcutured films. , 2010, , . | | 7 |
| 22 | Photocatalysts for hydrogen generation and organic contaminants degradation. , 2018, , 215-236. | | 7 |
| 23 | Photoluminescence properties of LiTi<sub>2â€‰â^'â€‰x</sub>Eu<sub>x</sub>(PO<sub>4</sub>)<sub>3</sub> phosphor. Luminescence, 2017, 32, 11-16. | 2.9 | 1 |
| 24 | Performance tunability of field-effect transistors using MoS2(1â^'x)Se2x alloys. Nanotechnology, 2021, 32, 435202. | 2.6 | 1 |