

Eswaraiah Varrla

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,590
citations

393982

19
h-index

676716

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. <i>Nature Materials</i> , 2014, 13, 624-630.	13.3	1,958
2	Large-Scale Production of Size-Controlled MoS ₂ Nanosheets by Shear Exfoliation. <i>Chemistry of Materials</i> , 2015, 27, 1129-1139.	3.2	389
3	Graphene-Based Engine Oil Nanofluids for Tribological Applications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4221-4227.	4.0	366
4	Functionalized Graphene/PVDF Foam Composites for EMI Shielding. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 894-898.	1.7	343
5	Black Phosphorus Nanosheets: Synthesis, Characterization and Applications. <i>Small</i> , 2016, 12, 3480-3502.	5.2	337
6	Turbulence-assisted shear exfoliation of graphene using household detergent and a kitchen blender. <i>Nanoscale</i> , 2014, 6, 11810-11819.	2.8	241
7	Functionalized graphene reinforced thermoplastic nanocomposites as strain sensors in structural health monitoring. <i>Journal of Materials Chemistry</i> , 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. <i>Journal of Materials Chemistry</i> , 2011, 21, 6800.	6.7	158
9	One-pot synthesis of conducting graphene/polymer composites and their strain sensing application. <i>Nanoscale</i> , 2012, 4, 1258.	2.8	121
10	Inorganic nanotubes reinforced polyvinylidene fluoride composites as low-cost electromagnetic interference shielding materials. <i>Nanoscale Research Letters</i> , 2011, 6, 137.	3.1	102
11	Facile synthesis of one dimensional graphene wrapped carbon nanotube composites by chemical vapour deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 15179.	6.7	52
12	2D black phosphorous nanosheets as a hole transporting material in perovskite solar cells. <i>Journal of Power Sources</i> , 2017, 371, 156-161.	4.0	52
13	Hexagonal Boron Nitride Nanosheets as High-Performance Binder-Free Fire-Resistant Wood Coatings. <i>Small</i> , 2017, 13, 1602456.	5.2	50
14	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24874-24879.	5.2	45
15	Enhanced UV photodetector performance in bi-layer TiO ₂ /WO ₃ sputtered films. <i>Applied Surface Science</i> , 2019, 494, 575-582.	3.1	44
16	Facile and simultaneous production of metal/metal oxide dispersed graphene nano composites by solar exfoliation. <i>Journal of Materials Chemistry</i> , 2011, 21, 17094.	6.7	39
17	An in-field integrated capacitive sensor for rapid detection and quantification of soil moisture. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128542.	4.0	38
18	Graphene-Functionalized Carbon Nanotubes for Conducting Polymer Nanocomposites and Their Improved Strain Sensing Properties. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2439-2444.	1.1	27

#	ARTICLE	IF	CITATIONS
19	Vertical Single-Crystalline Organic Nanowires on Graphene: Solution-Phase Epitaxy and Optical Microcavities. Nano Letters, 2016, 16, 4754-4762.	4.5	24
20	A thermally insulating vermiculite nanosheet-epoxy nanocomposite paint as a fire-resistant wood coating. Nanoscale Advances, 2021, 3, 4235-4243.	2.2	16
21	Electromagnetic interference (EMI) shielding of carbon nanostructured films. , 2010, , .		7
22	Photocatalysts for hydrogen generation and organic contaminants degradation. , 2018, , 215-236.		7
23	Photoluminescence properties of $\text{LiTi}_2\text{Eu}(\text{PO}_4)_3$ phosphor. Luminescence, 2017, 32, 11-16.	1.5	1
24	Performance tunability of field-effect transistors using $\text{MoS}_2(1-x)\text{Se}_2x$ alloys. Nanotechnology, 2021, 32, 435202.	1.3	1