

Sruthi Kuriakose

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,103
citations

567281

15
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

1488
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Ionic–Electronic Charge Transport in Layered Black Phosphorus for Low-Power Memory. <i>Advanced Functional Materials</i> , 2022, 32, 2107068.	14.9	16
2	Fully Light–Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus. <i>Advanced Materials</i> , 2021, 33, e2004207.	21.0	147
3	Neuromorphic Imaging: Fully Light–Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus (<i>Adv. Mater.</i> 10/2021). <i>Advanced Materials</i> , 2021, 33, 2170074.	21.0	0
4	Broad-Spectrum Solvent-free Layered Black Phosphorus as a Rapid Action Antimicrobial. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17340-17352.	8.0	24
5	2D/3D Hybrid of MoS ₂ /GaN for a High-Performance Broadband Photodetector. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2407-2414.	4.3	70
6	Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021, 12, 3897.	12.8	63
7	Black Phosphorus Nanoflakes Vertically Stacked on MoS ₂ Nanoflakes as Heterostructures for Photodetection. <i>ACS Applied Nano Materials</i> , 2021, 4, 6928-6935.	5.0	14
8	Black Phosphorus–Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. <i>Advanced Photonics Research</i> , 2021, 2, 2100150.	3.6	3
9	Charge injection in vertically stacked multi-layer black phosphorus. <i>Applied Materials Today</i> , 2020, 18, 100481.	4.3	1
10	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020, 7, 827-834.	12.2	27
11	Monocrystalline Antimonene Nanosheets via Physical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001678.	3.7	14
12	Structural-Defect-Mediated Grafting of Alkylamine on Few-Layer MoS ₂ and Its Potential for Enhancement of Tribological Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30720-30730.	8.0	30
13	Current Transport and Band Alignment Study of MoS ₂ /GaN and MoS ₂ /AlGaN Heterointerfaces for Broadband Photodetection Application. <i>ACS Applied Electronic Materials</i> , 2020, 2, 710-718.	4.3	43
14	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019, 29, 1901991.	14.9	97
15	Atomically Thin Ga ₂ S ₃ from Skin of Liquid Metals for Electrical, Optical, and Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4665-4672.	5.0	72
16	Optoelectronics: Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus (<i>Adv. Funct. Mater.</i> 39/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970272.	14.9	2
17	Optically Stimulated Artificial Synapse Based on Layered Black Phosphorus. <i>Small</i> , 2019, 15, e1900966.	10.0	201
18	2D SnO/In ₂ O ₃ van der Waals Heterostructure Photodetector Based on Printed Oxide Skin of Liquid Metals. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900007.	3.7	65

#	ARTICLE	IF	CITATIONS
19	Generating strong room-temperature photoluminescence in black phosphorus using organic molecules. 2D Materials, 2019, 6, 015009.	4.4	15
20	Black phosphorus: ambient degradation and strategies for protection. 2D Materials, 2018, 5, 032001.	4.4	119
21	Œ-Conjugated Amine-ZnO Nanohybrids for the Selective Detection of CO ₂ Gas at Room Temperature. ACS Applied Nano Materials, 2018, 1, 6912-6921.	5.0	26
22	Encapsulation-Free Stabilization of Few-Layer Black Phosphorus. ACS Applied Materials & Interfaces, 2018, 10, 24327-24331.	8.0	16
23	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. Applied Materials Today, 2018, 12, 244-249.	4.3	38