

# Sruthi Kuriakose

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/584685/publications.pdf>

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	Optically Stimulated Artificial Synapse Based on Layered Black Phosphorus. <i>Small</i> , 2019, 15, e1900966.	10.0	201
2	Fully Lightâ€Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus. <i>Advanced Materials</i> , 2021, 33, e2004207.	21.0	147
3	Black phosphorus: ambient degradation and strategies for protection. <i>2D Materials</i> , 2018, 5, 032001.	4.4	119
4	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019, 29, 1901991.	14.9	97
5	Atomically Thin Ga<sub>2</sub>S<sub>3</sub> from Skin of Liquid Metals for Electrical, Optical, and Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4665-4672.	5.0	72
6	2D/3D Hybrid of MoS<sub>2</sub>/GaN for a High-Performance Broadband Photodetector. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2407-2414.	4.3	70
7	2D SnO/In<sub>2</sub>O<sub>3</sub> van der Waals Heterostructure Photodetector Based on Printed Oxide Skin of Liquid Metals. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900007.	3.7	65
8	Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021, 12, 3897.	12.8	63
9	Current Transport and Band Alignment Study of MoS<sub>2</sub>/GaN and MoS<sub>2</sub>/AlGaN Heterointerfaces for Broadband Photodetection Application. <i>ACS Applied Electronic Materials</i> , 2020, 2, 710-718.	4.3	43
10	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. <i>Applied Materials Today</i> , 2018, 12, 244-249.	4.3	38
11	Structural-Defect-Mediated Grafting of Alkylamine on Few-Layer MoS<sub>2</sub> and Its Potential for Enhancement of Tribological Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30720-30730.	8.0	30
12	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020, 7, 827-834.	12.2	27
13	Î€-Conjugated Amineâ€ZnO Nanohybrids for the Selective Detection of CO<sub>2</sub> Gas at Room Temperature. <i>ACS Applied Nano Materials</i> , 2018, 1, 6912-6921.	5.0	26
14	Broad-Spectrum Solvent-free Layered Black Phosphorus as a Rapid Action Antimicrobial. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17340-17352.	8.0	24
15	Encapsulation-Free Stabilization of Few-Layer Black Phosphorus. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24327-24331.	8.0	16
16	Mixed Ionicâ€Electronic Charge Transport in Layered Blackâ€Phosphorus for Lowâ€Power Memory. <i>Advanced Functional Materials</i> , 2022, 32, 2107068.	14.9	16
17	Generating strong room-temperature photoluminescence in black phosphorus using organic molecules. <i>2D Materials</i> , 2019, 6, 015009.	4.4	15
18	Monocrystalline Antimonene Nanosheets via Physical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001678.	3.7	14

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19	Black Phosphorus Nanoflakes Vertically Stacked on MoS <sub>2</sub> Nanoflakes as Heterostructures for Photodetection. ACS Applied Nano Materials, 2021, 4, 6928-6935.	5.0	14
20	Black Phosphorus-Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. Advanced Photonics Research, 2021, 2, 2100150.	3.6	3
21	Optoelectronics: Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus (Adv. Funct. Mater. 39/2019). Advanced Functional Materials, 2019, 29, 1970272.	14.9	2
22	Charge injection in vertically stacked multi-layer black phosphorus. Applied Materials Today, 2020, 18, 100481.	4.3	1
23	Neuromorphic Imaging: Fully Light-Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus (Adv. Mater. 10/2021). Advanced Materials, 2021, 33, 2170074.	21.0	0