

Pranay Ranjan

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

775
citations

686830

13
h-index

580395

25
g-index

28
all docs

28
docs citations

28
times ranked

982
citing authors

#	ARTICLE	IF	CITATIONS
1	Freestanding Borophene and Its Hybrids. <i>Advanced Materials</i> , 2019, 31, e1900353.	11.1	195
2	Borophene: New Sensation in Flatland. <i>Advanced Materials</i> , 2020, 32, e2000531.	11.1	118
3	A Low-Cost Non-explosive Synthesis of Graphene Oxide for Scalable Applications. <i>Scientific Reports</i> , 2018, 8, 12007.	1.6	104
4	Alpha Lead Oxide (α -PbO): A New 2D Material with Visible Light Sensitivity. <i>Small</i> , 2018, 14, e1703346.	5.2	58
5	Borophene via Micromechanical Exfoliation. <i>Advanced Materials</i> , 2021, 33, e2102039.	11.1	56
6	2D materials: increscent quantum flatland with immense potential for applications. <i>Nano Convergence</i> , 2022, 9, .	6.3	29
7	Inducing dye-selectivity in graphene oxide for cationic dye separation applications. <i>Materials Chemistry and Physics</i> , 2019, 226, 350-355.	2.0	27
8	Defects signature in VOC characterization of thin-film solar cells. <i>Solar Energy</i> , 2021, 220, 35-42.	2.9	27
9	Graphene oxide based free-standing films for humidity and hydrogen peroxide sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15946-15956.	1.1	22
10	2D materials as a diagnostic platform for the detection and sensing of the SARS-CoV-2 virus: a bird's-eye view. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4608-4619.	2.9	21
11	Impact of light soaking on absorber and buffer layer in thin film solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	19
12	Chemical exfoliation synthesis of boron nitride and molybdenum disulfide 2D sheets via modified Hummers's method. <i>Emergent Materials</i> , 2021, 4, 645-654.	3.2	17
13	Au concentration-dependent quenching of Raman 2D peak in graphene. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 586-591.	1.2	15
14	Dye Adsorption Behavior of Graphene Oxide. <i>Materials Today: Proceedings</i> , 2019, 11, 833-836.	0.9	12
15	Computational analysis of chalcogenides as an inorganic hole transport layer in perovskite solar cells. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	12
16	Borophene: Freestanding Borophene and Its Hybrids (Adv. Mater. 27/2019). <i>Advanced Materials</i> , 2019, 31, 1970196.	11.1	10
17	Effect of characterization probes on the properties of graphene oxide and reduced graphene oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	10
18	Free Standing Graphene Oxide Films for Gas Sensing Applications. <i>Materials Today: Proceedings</i> , 2018, 5, 732-736.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Secondary Phases in CZTS Thin Films Grown Using Direct Liquid Coating Approach. Materials Today: Proceedings, 2018, 5, 99-103.	0.9	4
20	Solvent free tin oxide nanoparticle for gas sensing application. AIP Conference Proceedings, 2016, , .	0.3	3
21	Graphene Oxide Based P-N Junctions. Materials Today: Proceedings, 2019, 11, 830-832.	0.9	3
22	Temperature dependent localized surface plasmon resonance properties of supported gold nanoparticles. AIP Conference Proceedings, 2016, , .	0.3	1
23	Free standing graphene oxide film for hydrogen peroxide sensing. AIP Conference Proceedings, 2018, , .	0.3	1
24	Graphene for next generation magnetic devices: A first-principles study. , 2021, , .		1
25	Graphene oxide and its derivatives as potential Ovchinnikov ferromagnets. Journal of Physics Condensed Matter, 2021, 33, 375801.	0.7	1
26	Experimental optimization during SERS application. AIP Conference Proceedings, 2018, , .	0.3	0
27	Electrical and Optical Characterisation of CZTS Thin-Film for Sensing Applications. , 2022, , .		0