

Imtisal Akhtar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2375450/publications.pdf>

Version: 2024-02-01

53
papers

1,756
citations

236925

25
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

2895
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the Photoinitiator Concentration on the Electro-optical Properties of Thiol- <i>Acrylate</i> -Based PDLC Smart Windows. <i>ACS Applied Energy Materials</i> , 2022, 5, 6986-6995.	5.1	21
2	Supercapacitors based on Ti ₃ C ₂ T _x MXene extracted from supernatant and current collectors passivated by CVD-graphene. <i>Scientific Reports</i> , 2021, 11, 649.	3.3	54
3	NIR self-powered photodetection and gate tunable rectification behavior in 2D GeSe/MoSe ₂ heterojunction diode. <i>Scientific Reports</i> , 2021, 11, 3688.	3.3	34
4	Application of Titanium-Carbide MXene-Based Transparent Conducting Electrodes in Flexible Smart Windows. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40976-40985.	8.0	37
5	Radial alignment of carbon nanotubes for directional sensing application. <i>Composites Part B: Engineering</i> , 2021, 222, 109038.	12.0	10
6	Self-standing SnS nanosheet array: a bifunctional binder-free thin film catalyst for electrochemical hydrogen generation and wastewater treatment. <i>Dalton Transactions</i> , 2021, 50, 12723-12729.	3.3	27
7	High mobility ReSe ₂ field effect transistors: Schottky-barrier-height-dependent photoresponsivity and broadband light detection with Co decoration. <i>2D Materials</i> , 2020, 7, 015010.	4.4	36
8	Studies on directly grown few layer graphene processed using tape-peeling method. <i>Carbon</i> , 2020, 158, 749-755.	10.3	12
9	Quartz tuning fork based three-dimensional topography imaging for sidewall with blind features. <i>Ultramicroscopy</i> , 2020, 210, 112916.	1.9	1
10	High performance complementary WS ₂ devices with hybrid Gr/Ni contacts. <i>Nanoscale</i> , 2020, 12, 21280-21290.	5.6	27
11	Highly aligned carbon nanotubes and their sensor applications. <i>Nanoscale</i> , 2020, 12, 21447-21458.	5.6	31
12	Stretchable Sensor Made of MWCNT/ZnO Nanohybrid Particles in PDMS. <i>Advanced Materials Technologies</i> , 2020, 5, 2000229.	5.8	14
13	Effect of Ti ₃ C ₂ T _x MXenes etched at elevated temperatures using concentrated acid on binder-free supercapacitors. <i>RSC Advances</i> , 2020, 10, 41837-41845.	3.6	26
14	Polymer-dispersed liquid-crystal-based switchable glazing fabricated <i>via</i> vacuum glass coupling. <i>RSC Advances</i> , 2020, 10, 32225-32231.	3.6	41
15	WSe ₂ Homojunction p-n Diode Formed by Photoinduced Activation of Mid-Gap Defect States in Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42007-42015.	8.0	34
16	Asymmetric electrode incorporated 2D GeSe for self-biased and efficient photodetection. <i>Scientific Reports</i> , 2020, 10, 9374.	3.3	38
17	Multifunctional and high-performance GeSe/PdSe ₂ heterostructure device with a fast photoresponse. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4743-4753.	5.5	47
18	Optoelectronics of Multijunction Heterostructures of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 1934-1943.	9.1	27

#	ARTICLE	IF	CITATIONS
19	Solar cell based on vertical graphene nano hills directly grown on silicon. Carbon, 2020, 164, 235-243.	10.3	23
20	Modulation of Magnetoresistance Polarity in BLG/SL-MoSe ₂ Heterostacks. Nanoscale Research Letters, 2020, 15, 136.	5.7	4
21	Acrylate-assisted fractal nanostructured polymer dispersed liquid crystal droplet based vibrant colored smart-windows. RSC Advances, 2019, 9, 12645-12655.	3.6	36
22	Thickness-dependent efficiency of directly grown graphene based solar cells. Carbon, 2019, 148, 187-195.	10.3	49
23	Twist-Angle-Dependent Optoelectronics in a Few-Layer Transition-Metal Dichalcogenide Heterostructure. ACS Applied Materials & Interfaces, 2019, 11, 2470-2478.	8.0	19
24	Three-dimensional atomic force microscopy for ultra-high-aspect-ratio imaging. Applied Surface Science, 2019, 469, 582-592.	6.1	9
25	Operation Protocols To Improve Durability of Protonic Ceramic Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 457-468.	8.0	14
26	Gate Modulation of the Spin-orbit Interaction in Bilayer Graphene Encapsulated by WS ₂ films. Scientific Reports, 2018, 8, 3412.	3.3	20
27	Influence of an Al ₂ O ₃ interlayer in a directly grown graphene-silicon Schottky junction solar cell. Carbon, 2018, 132, 157-164.	10.3	78
28	Van der Waals heterojunction diode composed of WS ₂ flake placed on p-type Si substrate. Nanotechnology, 2018, 29, 045201.	2.6	21
29	Effect of additional HfO ₂ layer deposition on heterojunction c-Si solar cells. Energy Science and Engineering, 2018, 6, 706-715.	4.0	10
30	Dynamics of liquid crystal on hexagonal lattice. 2D Materials, 2018, 5, 045021.	4.4	5
31	Visualizing Degradation of Black Phosphorus Using Liquid Crystals. Scientific Reports, 2018, 8, 12966.	3.3	10
32	Gate Tunable Transport in Graphene/MoS ₂ /(Cr/Au) Vertical Field-Effect Transistors. Nanomaterials, 2018, 8, 14.	4.1	22
33	Influence of removing PMMA residues on surface of CVD graphene using a contact-mode atomic force microscope. RSC Advances, 2017, 7, 6943-6949.	3.6	68
34	A facile route to a high-quality graphene/MoS ₂ vertical field-effect transistor with gate-modulated photocurrent response. Journal of Materials Chemistry C, 2017, 5, 2337-2343.	5.5	19
35	Study of Grains and Boundaries of Molybdenum Diselenide and Tungsten Diselenide Using Liquid Crystal. Nano Letters, 2017, 17, 1474-1481.	9.1	24
36	Enhanced photoresponse of ZnO quantum dot-decorated MoS ₂ thin films. RSC Advances, 2017, 7, 16890-16900.	3.6	59

#	ARTICLE	IF	CITATIONS
37	n-MoS ₂ /p-Si Solar Cells with Al ₂ O ₃ Passivation for Enhanced Photogeneration. ACS Applied Materials & Interfaces, 2016, 8, 29383-29390.	8.0	77
38	Synthesis and characterization of large-area and continuous MoS ₂ atomic layers by RF magnetron sputtering. Nanoscale, 2016, 8, 4340-4347.	5.6	74
39	High Efficiency Supercapacitor Electrodes of CVD-grown Graphenes Hybridized with Multiwalled Carbon Nanotubes. Bulletin of the Korean Chemical Society, 2015, 36, 2111-2115.	1.9	11
40	Effect of Annealing in Ar/H ₂ Environment on Chemical Vapor Deposition-Grown Graphene Transferred With Poly (Methyl Methacrylate). IEEE Nanotechnology Magazine, 2015, 14, 70-74.	2.0	34
41	High-mobility and air-stable single-layer WS ₂ field-effect transistors sandwiched between chemical vapor deposition-grown hexagonal BN films. Scientific Reports, 2015, 5, 10699.	3.3	258
42	Ultraviolet Light-Induced Reversible and Stable Carrier Modulation in MoS ₂ Field-Effect Transistors. Advanced Functional Materials, 2014, 24, 7125-7132.	14.9	30
43	General algorithm and method for scanning a via hole by using critical-dimension atomic force microscopy. Journal of the Korean Physical Society, 2014, 64, 1643-1647.	0.7	3
44	Combinatorial Influence of Bimodal Size of B ₂ TiCu Compounds on Plasticity of Ti-Cu-Ni-Zr-Sn-Si Bulk Metallic Glass Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2376-2381.	2.2	27
45	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. Scientific Reports, 2014, 4, 6500.	3.3	46
46	Nanographene device fabrication using atomic force microscope. Micro and Nano Letters, 2013, 8, 422-425.	1.3	3
47	Raman spectroscopic image analysis on micropatterned graphene. Micro and Nano Letters, 2013, 8, 362-365.	1.3	3
48	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. Polymers and Polymer Composites, 2010, 18, 251-256.	1.9	3
49	Mechanical properties of rippled structure in suspended stacks of graphene. Journal of Applied Physics, 2010, 108, .	2.5	7
50	Atomic force microscopy and spectroscopy. Reports on Progress in Physics, 2008, 71, 016101.	20.1	118
51	Real-time atomic force microscopy using mechanical resonator type scanner. Review of Scientific Instruments, 2008, 79, 103703.	1.3	16
52	QUARTZ CRYSTAL RESONATOR BASED SCANNING PROBE MICROSCOPY. Modern Physics Letters B, 2005, 19, 1303-1322.	1.9	8
53	Low-temperature high-resolution magnetic force microscopy using a quartz tuning fork. Applied Physics Letters, 2005, 87, 103103.	3.3	31