

Bablu Mukherjee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	ReS ₂ /hBN/Graphene Heterostructure Based Multifunctional Devices: Tunneling Diodes, FETs, Logic Gates, and Memory. Advanced Electronic Materials, 2021, 7, .	5.1	15
2	Enhanced Selectivity in Volatile Organic Compound Gas Sensors Based on ReS ₂ -FETs under Light-Assisted and Gate-Bias Tunable Operation. ACS Applied Materials & Interfaces, 2021, 13, 43030-43038.	8.0	18
3	Gate-bias tunable humidity sensors based on rhenium disulfide field-effect transistors. Japanese Journal of Applied Physics, 2021, 60, SBBH01.	1.5	5
4	Reaction Mechanism and Selectivity Control of Si Compound ALE Based on Plasma Modification and F-Radical Exposure. Langmuir, 2021, 37, 12663-12672.	3.5	5
5	Laser-Assisted Multilevel Non-Volatile Memory Device Based on 2D van der Waals Few-Layer ReS ₂ /hBN/Graphene Heterostructures. Advanced Functional Materials, 2020, 30, 2001688.	14.9	52
6	Light-Assisted and Gate-Tunable Oxygen Gas Sensor Based on Rhenium Disulfide Field-Effect Transistors. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000330.	2.4	7
7	Enhanced Quantum Efficiency in Vertical Mixed-Thickness n-ReS ₂ /p-Si Heterojunction Photodiodes. ACS Photonics, 2019, 6, 2277-2286.	6.6	26
8	Physics and Modeling of Two-dimensional (2D) RF Transistors and Photodetectors. , 2019, , .		0
9	Plasmonic Enhancement in Anisotropic Thin Films of Rhenium Disulphide (ReS ₂). , 2018, , .		0
10	Multilayer ReS ₂ Photodetectors with Gate Tunability for High Responsivity and High-Speed Applications. ACS Applied Materials & Interfaces, 2018, 10, 36512-36522.	8.0	86
11	Exciton Emission Intensity Modulation of Monolayer MoS ₂ via Au Plasmon Coupling. Scientific Reports, 2017, 7, 41175.	3.3	50
12	Reversible hysteresis inversion in MoS ₂ field effect transistors. Npj 2D Materials and Applications, 2017, 1, .	7.9	112
13	Suspended ReS ₂ FET for improved photocurrent-time response. , 2017, , .		3
14	Cation exchange synthesis of uniform PbSe/PbS core/shell tetra-pods and their use as near-infrared photodetectors. Nanoscale, 2016, 8, 14203-14212.	5.6	32
15	Light-matter interactions in complex media with 2D materials, metamaterials, and quantum dots. , 2016, , .		0
16	Enhanced absorption with quantum dots, metal nanoparticles, and 2D materials. Proceedings of SPIE, 2016, , .	0.8	0
17	Photoconductivity of interconnected nanowires and their electromagnetic-circuit co-simulation. , 2016, , .		0
18	Keeping 2D materials visible even buried in Sol wafers. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Utilization of monolayer MoS ₂ in Bragg stacks and metamaterial structures as broadband absorbers. Optics Communications, 2016, 369, 89-93.	2.1	32
20	Plasmonics Enhanced Average Broadband Absorption of Monolayer MoS ₂ . Plasmonics, 2016, 11, 285-289.	3.4	21
21	Photoconductivity in VO ₂ /ZnO Inter-Nanowire Junction and Nanonetwork Device. Nanoscience and Nanotechnology Letters, 2016, 8, 492-497.	0.4	1
22	Visibility of atomically-thin layered materials buried in silicon dioxide. Nanotechnology, 2015, 26, 455701.	2.6	7
23	Plasmonics enhanced average broadband absorption of monolayer MoS ₂ . , 2015, , .		1
24	Raman analysis of gold on WSe ₂ single crystal film. Materials Research Express, 2015, 2, 065009.	1.6	20
25	Complex electrical permittivity of the monolayer molybdenum disulfide (MoS ₂) in near UV and visible. Optical Materials Express, 2015, 5, 447.	3.0	104
26	Absorptance Of PbS Quantum Dots Thin Film Deposited On Trilayer MoS ₂ . Advanced Materials Letters, 2015, 6, 936-940.	0.6	4
27	Direct laser micropatterning of GeSe ₂ nanostructures film with controlled optoelectrical properties. RSC Advances, 2014, 4, 10013.	3.6	11
28	K-Enriched WO ₃ Nanobundles: High Electrical Conductivity and Photocurrent with Controlled Polarity. ACS Applied Materials & Interfaces, 2013, 5, 4731-4738.	8.0	20
29	NIR Schottky Photodetectors Based on Individual Single-Crystalline GeSe Nanosheet. ACS Applied Materials & Interfaces, 2013, 5, 9594-9604.	8.0	214
30	Photocurrent characteristics of individual GeSe ₂ nanobelt with Schottky effects. Journal of Applied Physics, 2013, 114, .	2.5	22
31	Stepped-surfaced GeSe ₂ nanobelts with high-gain photoconductivity. Journal of Materials Chemistry, 2012, 22, 24882.	6.7	26
32	Synthesis, characterization and electrical properties of hybrid Zn ₂ GeO ₄ /ZnO beaded nanowire arrays. Journal of Crystal Growth, 2012, 346, 32-39.	1.5	10
33	Electrical and photoresponse properties of Co ₃ O ₄ nanowires. Journal of Applied Physics, 2012, 111, .	2.5	41