

# Bablu Mukherjee

## List of Publications by Year in descending order

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33  
papers

945  
citations

516215

16  
h-index

580395

25  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1793  
citing authors

#	ARTICLE	IF	CITATIONS
1	ReS <sub>2</sub> /hBN/Graphene Heterostructure Based Multifunctional Devices: Tunneling Diodes, FETs, Logic Gates, and Memory. <i>Advanced Electronic Materials</i> , 2021, 7, .	2.6	15
2	Enhanced Selectivity in Volatile Organic Compound Gas Sensors Based on ReS <sub>2</sub> -FETs under Light-Assisted and Gate-Bias Tunable Operation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43030-43038.	4.0	18
3	Gate-bias tunable humidity sensors based on rhenium disulfide field-effect transistors. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBBH01.	0.8	5
4	Reaction Mechanism and Selectivity Control of Si Compound ALE Based on Plasma Modification and F-Radical Exposure. <i>Langmuir</i> , 2021, 37, 12663-12672.	1.6	5
5	Laser-Assisted Multilevel Non-Volatile Memory Device Based on 2D van der Waals Few-Layer ReS <sub>2</sub> /hBN/Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2001688.	7.8	52
6	Light-Assisted and Gate-Tunable Oxygen Gas Sensor Based on Rhenium Disulfide Field-Effect Transistors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000330.	1.2	7
7	Enhanced Quantum Efficiency in Vertical Mixed-Thickness n-ReS <sub>2</sub> /p-Si Heterojunction Photodiodes. <i>ACS Photonics</i> , 2019, 6, 2277-2286.	3.2	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 <sub>2</sub> ). , 2018, , .		0
10	Multilayer ReS <sub>2</sub> Photodetectors with Gate Tunability for High Responsivity and High-Speed Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36512-36522.	4.0	86
11	Exciton Emission Intensity Modulation of Monolayer MoS <sub>2</sub> via Au Plasmon Coupling. <i>Scientific Reports</i> , 2017, 7, 41175.	1.6	50
12	Reversible hysteresis inversion in MoS <sub>2</sub> field effect transistors. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	112
13	Suspended ReS <sub>2</sub> 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. <i>Nanoscale</i> , 2016, 8, 14203-14212.	2.8	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. <i>Proceedings of SPIE</i> , 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 <sub>2</sub> in Bragg stacks and metamaterial structures as broadband absorbers. Optics Communications, 2016, 369, 89-93.	1.0	32
20	Plasmonics Enhanced Average Broadband Absorption of Monolayer MoS <sub>2</sub> . Plasmonics, 2016, 11, 285-289.	1.8	21
21	Photoconductivity in VO <sub>2</sub> â€“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.	1.3	7
23	Plasmonics enhanced average broadband absorption of monolayer MoS <sub>2</sub> . , 2015, , .		1
24	Raman analysis of gold on WSe <sub>2</sub> single crystal film. Materials Research Express, 2015, 2, 065009.	0.8	20
25	Complex electrical permittivity of the monolayer molybdenum disulfide (MoS <sub>2</sub> ) in near UV and visible. Optical Materials Express, 2015, 5, 447.	1.6	104
26	Absorptance Of PbS Quantum Dots Thin Film Deposited On Trilayer MoS <sub>2</sub> . Advanced Materials Letters, 2015, 6, 936-940.	0.3	4
27	Direct laser micropatterning of GeSe <sub>2</sub> nanostructures film with controlled optoelectrical properties. RSC Advances, 2014, 4, 10013.	1.7	11
28	K-Enriched WO <sub>3</sub> Nanobundles: High Electrical Conductivity and Photocurrent with Controlled Polarity. ACS Applied Materials & Interfaces, 2013, 5, 4731-4738.	4.0	20
29	NIR Schottky Photodetectors Based on Individual Single-Crystalline GeSe Nanosheet. ACS Applied Materials & Interfaces, 2013, 5, 9594-9604.	4.0	214
30	Photocurrent characteristics of individual GeSe <sub>2</sub> nanobelt with Schottky effects. Journal of Applied Physics, 2013, 114, .	1.1	22
31	Stepped-surfaced GeSe <sub>2</sub> nanobelts with high-gain photoconductivity. Journal of Materials Chemistry, 2012, 22, 24882.	6.7	26
32	Synthesis, characterization and electrical properties of hybrid Zn <sub>2</sub> GeO <sub>4</sub> â€“ZnO beaded nanowire arrays. Journal of Crystal Growth, 2012, 346, 32-39.	0.7	10
33	Electrical and photoresponse properties of Co <sub>3</sub> O <sub>4</sub> nanowires. Journal of Applied Physics, 2012, 111, .	1.1	41