Madan Dubey

List of Publications by Year in Descending Order

68 papers	10,005 citations	37 h-index	71 g-index
71 ext. papers	11,155 ext. citations	9.1 avg, IF	6.08 L-index

#	Paper	IF	Citations
68	Mixed-dimensional InAs nanowire on layered molybdenum disulfide heterostructures via selective-area van der Waals epitaxy. *Nanoscale Advances*, **2021**, 3, 2802-2811	5.1	2
67	Dynamically reconfigurable electronic and phononic properties in intercalated HfS2. *Materials Today*, **2020**, 39, 110-117	21.8	2
66	Hydrogen Plasma Exposure of Monolayer MoS Field-Effect Transistors and Prevention of Desulfurization by Monolayer Graphene. *ACS Applied Materials & Interfaces*, **2020**, 12, 37305-37312	9.5	3
65	Two-dimensional MoS-enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. *Nature*, **2019**, 566, 368-372	50.4	164
64	Plasma-Enhanced Atomic Layer Deposition of HfO2 on Monolayer, Bilayer, and Trilayer MoS2 for the Integration of High-□Dielectrics in Two-Dimensional Devices. *ACS Applied Nano Materials*, **2019**, 2, 4085-4094	5.6	20
63	Dominant ZA phonons and thermal carriers in HfS2. *Journal of Applied Physics*, **2019**, 126, 164302	2.5	4
62	Cross-Plane Carrier Transport in Van der Waals Layered Materials. *Small*, **2018**, 14, e1703808	11	9
61	Giant Mechano-Optoelectronic Effect in an Atomically Thin Semiconductor. *Nano Letters*, **2018**, 18, 2351-2357	11.5	27
60	Tunable electron and phonon properties of folded single-layer molybdenum disulfide. *Nano Research*, **2018**, 11, 1541-1553	10	1
59	Origins of Moir□Patterns in CVD-grown MoS Bilayer Structures at the Atomic Scales. *Scientific Reports*, **2018**, 8, 9439	4.9	2
58	Origins of Ripples in CVD-Grown Few-layered MoS Structures under Applied Strain at Atomic Scales. *Scientific Reports*, **2017**, 7, 40862	4.9	6
57	Strain-engineered growth of two-dimensional materials. *Nature Communications*, **2017**, 8, 608	17.4	162
56	Intricate Resonant Raman Response in Anisotropic ReS. *Nano Letters*, **2017**, 17, 5897-5907	11.5	49
55	High Luminescence Efficiency in MoS2 Grown by Chemical Vapor Deposition. *ACS Nano*, **2016**, 10, 6535-41	16.7	115
54	Effects of Uniaxial and Biaxial Strain on Few-Layered Terrace Structures of MoS□Grown by Vapor Transport. *ACS Nano*, **2016**, 10, 3186-97	16.7	70
53	Gold-Mediated Exfoliation of Ultralarge Optoelectronically-Perfect Monolayers. *Advanced Materials*, **2016**, 28, 4053-8	24	206
52	Enabling Ultrasensitive Photo-detection Through Control of Interface Properties in Molybdenum Disulfide Atomic Layers. *Scientific Reports*, **2016**, 6, 39465	4.9	2

51	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. *Nano Research*, **2016**, 9, 1543-1560	10	136
50	Engineering light outcoupling in 2D materials. *Nano Letters*, **2015**, 15, 1356-61	11.5	105
49	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. *Annual Review of Materials Research*, **2015**, 45, 1-27	12.8	430
48	Flexible integrated circuits and multifunctional electronics based on single atomic layers of MoS2 and graphene. *Nanotechnology*, **2015**, 26, 115202	3.4	53
47	Edge effects on band gap energy in bilayer 2H-MoS2 under uniaxial strain. *Journal of Applied Physics* , **2015**, 117, 244303	2.5	13
46	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS *Nano Letters*, **2015**, 15, 8377-84	11.5	82
45	Near-unity photoluminescence quantum yield in MoS *Science*, **2015**, 350, 1065-8	33.3	792
44	Transfer characteristics and low-frequency noise in single- and multi-layer MoS2 field-effect transistors. *Applied Physics Letters*, **2015**, 107, 162102	3.4	16
43	Graphene/MoS2 hybrid technology for large-scale two-dimensional electronics. *Nano Letters*, **2014**, 14, 3055-63	11.5	472
42	Theoretical study on strain induced variations in electronic properties of 2H-MoS2 bilayer sheets. *Applied Physics Letters*, **2014**, 104, 053107	3.4	26
41	Strain and structure heterogeneity in MoS2 atomic layers grown by chemical vapour deposition. *Nature Communications*, **2014**, 5, 5246	17.4	352
40	High gain, low noise, fully complementary logic inverter based on bi-layer WSe2 field effect transistors. *Applied Physics Letters*, **2014**, 105, 083511	3.4	72
39	Growth-substrate induced performance degradation in chemically synthesized monolayer MoS2 field effect transistors. *Applied Physics Letters*, **2014**, 104, 203506	3.4	74
38	Tunable transport gap in phosphorene. *Nano Letters*, **2014**, 14, 5733-9	11.5	578
37	Theoretical study on strain-induced variations in electronic properties of monolayer MoS2. *Journal of Materials Science*, **2014**, 49, 6762-6771	4.3	50
36	Electrical transport properties of polycrystalline monolayer molybdenum disulfide. *ACS Nano*, **2014**, 8, 7930-7	16.7	96
35	Asymmetric growth of bilayer graphene on copper enclosures using low-pressure chemical vapor deposition. *ACS Nano*, **2014**, 8, 6491-9	16.7	95
34	Electrical transport and low-frequency noise in chemical vapor deposited single-layer MoS2 devices. *Nanotechnology*, **2014**, 25, 155702	3.4	41

33	Two-dimensional material nanophotonics. *Nature Photonics*, **2014**, 8, 899-907	33.9	1805
32	Blueshift of the A-exciton peak in folded monolayer 1H-MoS2. *Physical Review B*, **2013**, 88,	3.3	28
31	Increased mobility for layer-by-layer transferred chemical vapor deposited graphene/boron-nitride thin films. *Applied Physics Letters*, **2013**, 102, 103115	3.4	19
30	Rapid identification of stacking orientation in isotopically labeled chemical-vapor grown bilayer graphene by Raman spectroscopy. *Nano Letters*, **2013**, 13, 1541-8	11.5	131
29	Large-Area 2-D Electronics: Materials, Technology, and Devices. *Proceedings of the IEEE*, **2013**, 101, 1638-1652	14.3	39
28	Electrical performance of monolayer MoS2 field-effect transistors prepared by chemical vapor deposition. *Applied Physics Letters*, **2013**, 102, 193107	3.4	182
27	Integrated circuits based on bilayer MoS□transistors. *Nano Letters*, **2012**, 12, 4674-80	11.5	1350
26	Density Functional Theory Investigation of Electronic Structures and Properties of Agn□60□Agn Nanocontacts. *Journal of Physical Chemistry C*, **2012**, 116, 1966-1972	3.8	5
25	. *Journal of Microelectromechanical Systems*, **2011**, 20, 1250-1258	2.5	22
24	Direct synthesis of lithium-intercalated graphene for electrochemical energy storage application. *ACS Nano*, **2011**, 5, 4345-9	16.7	110
23	Self-Assembly of Microscale Parts through Magnetic and Capillary Interactions. *Micromachines*, **2011**, 2, 69-81	3.3	7
22	Graphene growth via carburization of stainless steel and application in energy storage. *Small*, **2011**, 7, 1697-700	11	40
21	Impact of Plasma-Assisted Atomic-Layer-Deposited Gate Dielectric on Graphene Transistors. *IEEE Electron Device Letters*, **2011**, 32, 473-475	4.4	33
20	HIGH FREQUENCY GRAPHENE TRANSISTORS USING LARGE-AREA CVD GRAPHENE AND ADVANCED DIELECTRICS. *International Journal of High Speed Electronics and Systems*, **2011**, 20, 669-677	0.5	1
19	Synthesis of nitrogen-doped graphene films for lithium battery application. *ACS Nano*, **2010**, 4, 6337-42	16.7	1420
18	Interaction of nucleic acid bases and Watson□rick base pairs with fullerene: Computational study. *Chemical Physics Letters*, **2010**, 493, 130-134	2.5	16
17	Density functional theory investigation of interaction of zigzag (7,0) single-walled carbon nanotube with Watson□rick DNA base pairs. *Chemical Physics Letters*, **2010**, 496, 128-132	2.5	28
16	Interaction of nucleic acid bases with single-walled carbon nanotube. *Chemical Physics Letters*, **2009** , 480, 269-272	2.5	52

15	Electronic Structures and Properties of Pdn□C60□Pdn Nanocontacts: A Theoretical Investigation. *Journal of Physical Chemistry C*, **2009**, 113, 11351-11357	3.8	7
14	DFT Investigation of the Interaction of Gold Nanoclusters with Nucleic Acid Base Guanine and the Watson□Crick Guanine-Cytosine Base Pair. *Journal of Physical Chemistry C*, **2009**, 113, 3960-3966	3.8	43
13	Thin-Film PZT Lateral Actuators With Extended Stroke. *Journal of Microelectromechanical Systems*, **2008**, 17, 890-899	2.5	40
12	Theoretical investigation of electronic structures and properties of C60-gold nanocontacts. *ACS Nano*, **2008**, 2, 227-34	16.7	38
11	Performance comparison of Pb(Zr0.52Ti0.48)O3-only and Pb(Zr0.52Ti0.48)O3-on-silicon resonators. *Applied Physics Letters*, **2008**, 93, 233504	3.4	41
10	Microscale self-assembly using molten alloys with different melting points. *Journal of Vacuum Science & Technology B*, **2008**, 26, 2534-2538		3
9	Surface Micromachined Microelectromechancial Ohmic Series Switch Using Thin-Film Piezoelectric Actuators. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 2642-2654	4.1	59
8	Advances in Piezoelectrically Actuated RF MEMS Switches and Phase Shifters. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		20
7	THIN-FILM PIEZOELECTRIC ACTUATORS FOR BIO-INSPIRED MICRO-ROBOTIC APPLICATIONS. *Integrated Ferroelectrics*, **2007**, 95, 54-65	0.8	22
6	Mitigation of residual film stress deformation in multilayer microelectromechanical systems cantilever devices. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 2482		40
5	PZT MEMS for an Extremely Sensitive Magnetometer. *Integrated Ferroelectrics*, **2003**, 54, 697-706	0.8	3
4	Surface micromachined piezoelectric resonant beam filters. *Sensors and Actuators A: Physical*, **2001**, 91, 313-320	3.9	60
3	Study of recrystallization of SiC thin films. *Materials Research Bulletin*, **1976**, 11, 197-202	5.1	3
2	Recrystallization of SiC Thin Films Prepared from Starting Materials of Various Polytype. *Journal of the American Ceramic Society*, **1975**, 58, 255-255	3.8	3
1	Recrystallization of SiC thin films. *Journal Physics D: Applied Physics*, **1974**, 7, 1482-1484	3	5