Sinu Mathew

List of Publications by Year
in descending order

28 papers	866 citations	623734 14 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	1832 citing authors

#	Article	IF	Citations
1	Magnetism in MoS2 induced by proton irradiation. Applied Physics Letters, 2012, 101, .	3.3	205
2	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. Carbon, 2011, 49, 1720-1726.	10.3	86
3	Selective growth of single phase VO2(A, B, and M) polymorph thin films. APL Materials, 2015, 3, .	5.1	84
4	Mega-electron-volt proton irradiation on supported and suspended graphene: A Raman spectroscopic layer dependent study. Journal of Applied Physics, 2011, 110, .	2.5	56
5	Origin of Photocarrier Losses in Iron Pyrite (FeS₂) Nanocubes. ACS Nano, 2016, 10, 4431-4440.	14.6	56
6	Elastic and nonlinear response of nanomechanical graphene devices. Journal of Micromechanics and Microengineering, 2012, 22, 105024.	2.6	43
7	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. Scientific Reports, 2016, 5, 18000.	3.3	37
8	Magnetism inC60films induced by proton irradiation. Physical Review B, 2007, 75, .	3.2	36
9	Tuning the Interface Conductivity of LaAlO₃/SrTiO₃ Using Ion Beams: Implications for Patterning. ACS Nano, 2013, 7, 10572-10581.	14.6	34
10	Large Area Resistâ€Free Soft Lithographic Patterning of Graphene. Small, 2013, 9, 711-715.	10.0	28
11	The effects of 2MeV Ag ion irradiation on multiwalled carbon nanotubes. Carbon, 2007, 45, 2659-2664.	10.3	26
12	Polaronic Trions at the MoS 2 /SrTiO 3 Interface. Advanced Materials, 2019, 31, 1903569.	21.0	26
13	X-ray photoelectron and Raman spectroscopic studies of MeV proton irradiated graphite. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3241-3246.	1.4	25
14	Temperature Dependent Structural Evolution of WSe2: A Synchrotron X-ray Diffraction Study. Condensed Matter, 2020, 5, 76.	1.8	16
15	Direct Bandgap-like Strong Photoluminescence from Twisted Multilayer MoS₂ Grown on SrTiO₃. ACS Nano, 2020, 14, 16761-16769.	14.6	16
16	Evidence of Rotational FrÃ¶hlich Coupling in Polaronic Trions. Physical Review Letters, 2020, 125, 086803.	7.8	14
17	Enhancing image contrast of carbon nanotubes on cellular background using helium ion microscope by varying helium ion fluence. Journal of Microscopy, 2018, 269, 14-22.	1.8	13
18	Î³-MnS films with 3D microarchitectures: comprehensive study of the synthesis, microstructural, optical and magnetic properties. CrystEngComm, 2018, 20, 578-589.	2.6	12

#	Article	IF	Citations
19	Effects of annealing on the ripple texture and mechanical properties of suspended bilayer graphene. Journal Physics D: Applied Physics, 2013, 46, 145302.	2.8	11
20	keV Ag ion irradiation induced damage on multiwalled carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 36-40.	1.4	10
21	Nanoscale lithography of LaAlO₃/SrTiO₃wires using silicon stencil masks. Nanotechnology, 2014, 25, 445301.	2.6	9
22	Design, fabrication and Helium Ion Microscope patterning of suspended nanomechanical graphene structures for NEMS applications. , 2011, , .		7
23	Structural modifications of diamond like carbon films induced by MeV nitrogen ion irradiation. Applied Surface Science, 2009, 255, 4796-4800.	6.1	6
24	Magneto-Optical Study of Defect Induced Sharp Photoluminescence in LaAlO3 and SrTiO3. Scientific Reports, 2016, 6, 33145.	3.3	3
25	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors. , 2016, , .		2
26	Band gap opening and surface morphology of monolayer graphene induced by single ion impacts of argon monomer and dimer ions. Carbon, 2021, 184, 322-330.	10.3	2
27	Investigation of Photocarrier Losses in Pyrite (FeS2) Film Consisting Single Crystal Nanocubes. , 0, , .		2
28	Tailoring Mechanical Properties of Suspended Graphene by Energetic Ion Beams. , 2018, , .		1