

Sinu Mathew

List of Publications by Year in descending order

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papers

866
citations

623734

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all docs

29
docs citations

29
times ranked

1832
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Temperature Dependent Structural Evolution of WSe ₂ : A Synchrotron X-ray Diffraction Study. Condensed Matter, 2020, 5, 76.	1.8	16
3	Evidence of Rotational Frictional Coupling in Polaronic Trions. Physical Review Letters, 2020, 125, 086803.	7.8	14
4	Direct Bandgap-like Strong Photoluminescence from Twisted Multilayer MoS ₂ Grown on SrTiO ₃ . ACS Nano, 2020, 14, 16761-16769.	14.6	16
5	Polaronic Trions at the MoS ₂ /SrTiO ₃ Interface. Advanced Materials, 2019, 31, 1903569.	21.0	26
6	β-MnS films with 3D microarchitectures: comprehensive study of the synthesis, microstructural, optical and magnetic properties. CrystEngComm, 2018, 20, 578-589.	2.6	12
7	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
8	Tailoring Mechanical Properties of Suspended Graphene by Energetic Ion Beams. , 2018, , .		1
9	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors. , 2016, , .		2
10	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. Scientific Reports, 2016, 5, 18000.	3.3	37
11	Magneto-Optical Study of Defect Induced Sharp Photoluminescence in LaAlO ₃ and SrTiO ₃ . Scientific Reports, 2016, 6, 33145.	3.3	3
12	Origin of Photocurrent Losses in Iron Pyrite (FeS ₂) Nanocubes. ACS Nano, 2016, 10, 4431-4440.	14.6	56
13	Selective growth of single phase VO ₂ (A, B, and M) polymorph thin films. APL Materials, 2015, 3, .	5.1	84
14	Nanoscale lithography of LaAlO ₃ /SrTiO ₃ wires using silicon stencil masks. Nanotechnology, 2014, 25, 445301.	2.6	9
15	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
16	Large Area Resistive-Free Soft Lithographic Patterning of Graphene. Small, 2013, 9, 711-715.	10.0	28
17	Tuning the Interface Conductivity of LaAlO ₃ /SrTiO ₃ Using Ion Beams: Implications for Patterning. ACS Nano, 2013, 7, 10572-10581.	14.6	34
18	Magnetism in MoS ₂ induced by proton irradiation. Applied Physics Letters, 2012, 101, .	3.3	205

#	ARTICLE	IF	CITATIONS
19	Elastic and nonlinear response of nanomechanical graphene devices. Journal of Micromechanics and Microengineering, 2012, 22, 105024.	2.6	43
20	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
21	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
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	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
25	Magnetism in C ₆₀ films induced by proton irradiation. Physical Review B, 2007, 75, .	3.2	36
26	The effects of 2MeV Ag ion irradiation on multiwalled carbon nanotubes. Carbon, 2007, 45, 2659-2664.	10.3	26
27	keV Ag ion irradiation induced damage on multiwalled carbon nanotubes. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 36-40.	1.4	10
28	Investigation of Photocarrier Losses in Pyrite (FeS ₂) Film Consisting Single Crystal Nanocubes. , 0, , .		2