Arijit Sen

List of Publications by Year
in descending order

35	496	706676 14	759306 22
papers	citations	h-index	g-index

35	35	35	657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Morphological reduction of Fe₃O₄ by a single-step hydrothermal synthesis using 1D MnO₂ as a template and its supercapacitive behaviour. CrystEngComm, 2022, 24, 4611-4621.	1.3	14
2	Inelastic Tunnel Transport and Nanoscale Junction Thermoelectricity with Varying Electrode Topology. Advanced Theory and Simulations, 2021, 4, 2100054.	1.3	5
3	Grain-Boundary Effects on the Charge Transport Behavior of Quasi-2D Graphene/PVDF for Electrostatic Control of Power Dissipation in GFETs. Journal of Physical Chemistry C, 2021, 125, 10441-10450.	1.5	5
4	Defect-Oriented 2D Nanocomposites as Flexible Piezoelectric Nanogenerators: Encapsulation Effect. ECS Journal of Solid State Science and Technology, 2021, 10, 071005.	0.9	1
5	Preparation of PVDF matrix encapsulated with Quasi-2D graphene nano-flakes for optoelectronic devices. Materials Letters, 2021, 302, 130447.	1.3	0
6	Conformation controllable inelastic charge transport and shot noise behavior in metal-string single molecular devices. Applied Surface Science, 2020, 508, 145196.	3.1	3
7	Facile synthesis of 2D graphene oxide sheet enveloping ultrafine 1D LiMn2O4 as interconnected framework to enhance cathodic property for Li-ion battery. Applied Surface Science, 2019, 463, 132-140.	3.1	49
8	Spin induced inverter circuit with trinuclear chromium complexes. Applied Surface Science, 2019, 493, 331-335.	3.1	3
9	Exploring Surface and Tunneling Properties of Defect-Oriented Quasi-Graphene/Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4, 12696-12701.	1.6	5
10	Theoretical insight into the thermoelectric behavior of tri-nuclear metal-string complexes laced with gold nanoelectrodes: A first-principles study. Applied Surface Science, 2019, 498, 143806.	3.1	3
11	Synergistically advancing Li storage property of hydrothermally grown 1D pristine MnO2 over a mesh-like interconnected framework of 2D graphene oxide. Journal of Solid State Electrochemistry, 2019, 23, 1443-1454.	1.2	18
12	Enhanced pseudocapacitance from finely ordered pristine Î±-MnO2 nanorods at favourably high current density using redox additive. Applied Surface Science, 2018, 449, 492-499.	3.1	47
13	Asymmetric Coulomb oscillation and giant anisotropic magnetoresistance in doped graphene nanojunctions. Applied Surface Science, 2018, 449, 384-388.	3.1	3
14	Charge transport behavior of 1D gold chiral nanojunctions. Applied Surface Science, 2018, 449, 261-265.	3.1	4
15	Precise control of morphology of ultrafine LiMn2O4 nanorods as a supercapacitor electrode via a two-step hydrothermal method. CrystEngComm, 2018, 20, 5707-5717.	1.3	22
16	Morphology and phase tuning of Î±- and Î²-MnO₂nanocacti evolved at varying modes of acid count for their well-coordinated energy storage and visible-light-driven photocatalytic behaviour. RSC Advances, 2017, 7, 25041-25053.	1.7	51
17	One-pot synthesis and first-principles elasticity analysis of polymorphic MnO₂nanorods for tribological assessment as friction modifiers. RSC Advances, 2017, 7, 34138-34148.	1.7	25
18	Facile size-controllable synthesis of single crystalline Î²-MnO₂nanorods under varying acidic strengths. RSC Advances, 2016, 6, 7448-7454.	1.7	24

#	Article	IF	Citations
19	Morphological analysis of ultra fine Î±-MnO2 nanowires under different reaction conditions. Materials Letters, 2015, 158, 309-312.	1.3	31
20	Elastic and inelastic electron tunneling in doped gold wire nanojunctions. , 2013, , .		0
21	Single-Molecule Conductance through Chiral Gold Nanotubes. Journal of Physical Chemistry C, 2013, 117, 13676-13680.	1.5	20
22	Enhancement of anisotropic magnetoresistance in zigzag graphene nanodevices. , 2013, , .		0
23	Charge transport in a zigzag silicene nanoribbon. , 2013, , .		1
24	Single molecule conductance: Role of electrode morphology at the nanoscale. , 2013, , .		1
25	Effect of Electrode Orientations on Charge Transport in Alkanedithiol Single-Molecule Junctions. ACS Nano, 2010, 4, 6404-6408.	7.3	48
26	Quantum well states inFeâˆ•Nb(001)multilayers: First principles study. Physical Review B, 2007, 76, .	1.1	3
27	Reply to Comment on â€˜Collective dynamics in crystalline polymorphs of ZnCl2: potential modelling and inelastic neutron scattering studyâ€™. Journal of Physics Condensed Matter, 2006, 18, 6431-6432.	0.7	0
28	Lattice vibrations in high-pressure phases of LiYF4. Physica B: Condensed Matter, 2005, 363, 213-224.	1.3	6
29	Collective dynamics in crystalline polymorphs of ZnCl2: potential modelling and inelastic neutron scattering study. Journal of Physics Condensed Matter, 2005, 17, 6179-6192.	0.7	6
30	Inelastic neutron scattering study of lattice dynamics in Î±-ZnCl2. Pramana - Journal of Physics, 2004, 63, 393-397.	0.9	1
31	Molecular dynamics simulation of pressure-induced phase transitions inLiYF4andLiYbF4. Physical Review B, 2003, 68, .	1.1	24
32	Lattice dynamics and inelastic neutron scattering studies ofMFX(M=Ba,Sr, Pb;X=Cl,Br, I). Physical Review B, 2003, 67, .	1.1	32
33	Effects of pressure and temperature on the vibronic as well as the thermodynamic properties of LiYF4and LiYbF4. Journal of Physics Condensed Matter, 2002, 14, 975-986.	0.7	21
34	Inelastic neutron scattering and lattice dynamical studies of BaFCl. Applied Physics A: Materials Science and Processing, 2002, 74, s1109-s1111.	1.1	3
35	Rigid ion model of lattice dynamics in the laser host fluoroscheelitesLiYF4andLiYbF4. Physical Review B, 2001, 64, .	1.1	17