Subrata Ghosh

List of Publications by Year in descending order

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40 papers	4,021 citations	257450 24 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	5211 citing authors

#	Article	IF	Citations
1	Extremely high thermal conductivity of graphene: Prospects for thermal management applications in nanoelectronic circuits. Applied Physics Letters, 2008, 92, .	3.3	1,745
2	Lattice thermal conductivity of graphene flakes: Comparison with bulk graphite. Applied Physics Letters, 2009, 94, 203103.	3.3	461
3	Heteroatomâ€Doped and Oxygenâ€Functionalized Nanocarbons for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2020, 10, 2001239.	19.5	362
4	A comparative study on defect estimation using XPS and Raman spectroscopy in few layer nanographitic structures. Physical Chemistry Chemical Physics, 2016, 18, 22160-22167.	2.8	136
5	A review on metal nitrides/oxynitrides as an emerging supercapacitor electrode beyond oxide. Korean Journal of Chemical Engineering, 2018, 35, 1389-1408.	2.7	113
6	Evolution and defect analysis of vertical graphene nanosheets. Journal of Raman Spectroscopy, 2014, 45, 642-649.	2.5	109
7	Influence of substrate on nucleation and growth of vertical graphene nanosheets. Applied Surface Science, 2015, 349, 576-581.	6.1	67
8	Supercapacitive vertical graphene nanosheets in aqueous electrolytes. Nano Structures Nano Objects, 2017, 10, 42-50.	3.5	67
9	Plasma-tuneable oxygen functionalization of vertical graphenes enhance electrochemical capacitor performance. Energy Storage Materials, 2018, 14, 297-305.	18.0	63
10	Thermal Conduction in Suspended Graphene Layers. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 474-486.	2.1	60
11	Thermal conductivity of nitrogenated ultrananocrystalline diamond films on silicon. Journal of Applied Physics, 2008, 103, .	2.5	59
12	Coral-Like Yolkâ€“Shell-Structured Nickel Oxide/Carbon Composite Microspheres for High-Performance Li-Ion Storage Anodes. Nano-Micro Letters, 2019, 11, 3.	27.0	54
13	Process-specific mechanisms of vertically oriented graphene growth in plasmas. Beilstein Journal of Nanotechnology, 2017, 8, 1658-1670.	2.8	52
14	Thermal properties of the optically transparent pore-free nanostructured yttria-stabilized zirconia. Journal of Applied Physics, 2009, 106, .	2.5	50
15	Mesoporous carbon nanofiber engineered for improved supercapacitor performance. Korean Journal of Chemical Engineering, 2019, 36, 312-320.	2.7	46
16	Enhanced supercapacitance of activated vertical graphene nanosheets in hybrid electrolyte. Journal of Applied Physics, 2017, 122, .	2.5	42
17	MXene-based 3D porous macrostructures for electrochemical energy storage. JPhys Materials, 2020, 3, 022001.	4.2	42
18	Scalable transfer of vertical graphene nanosheets for flexible supercapacitor applications. Nanotechnology, 2017, 28, 415702.	2.6	39

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19	Multi-channel-contained few-layered MoSe2 nanosheet/N-doped carbon hybrid nanofibers prepared using diethylenetriamine as anodes for high-performance sodium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 75, 100-107.	5.8	39
20	Phase-pure VO2 nanoporous structure for binder-free supercapacitor performances. Scientific Reports, 2019, 9, 4621.	3.3	38
21	Designing metal oxide-vertical graphene nanosheets structures for 2.6 V aqueous asymmetric electrochemical capacitor. Journal of Industrial and Engineering Chemistry, 2019, 72, 107-116.	5.8	37
22	Aging effects on vertical graphene nanosheets and their thermal stability. Indian Journal of Physics, 2018, 92, 337-342.	1.8	35
23	Thermal Conductivity and Pressure-Dependent Raman Studies of Vertical Graphene Nanosheets. Journal of Physical Chemistry C, 2016, 120, 25092-25100.	3.1	34
24	Temporal-stability of plasma functionalized vertical graphene electrodes for charge storage. Journal of Power Sources, 2018, 401, 37-48.	7.8	34
25	MnO2-Vertical graphene nanosheets composite electrodes for energy storage devices. Materials Today: Proceedings, 2016, 3, 1686-1692.	1.8	24
26	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. Composites Science and Technology, 2022, 218, 109199.	7.8	23
27	Flipping growth orientation of nanographitic structures by plasma enhanced chemical vapor deposition. RSC Advances, 2015, 5, 91922-91931.	3.6	22
28	Plasma-electric field controlled growth of oriented graphene for energy storage applications. Journal Physics D: Applied Physics, 2018, 51, 145303.	2.8	22
29	Engineering high-defect densities across vertically-aligned graphene nanosheets to induce photocatalytic reactivity. Carbon, 2020, 168, 32-41.	10.3	22
30	Insights into the electrochemical capacitor performance of transition metalâ€“vertical graphene nanosheet hybrid electrodes. Physical Chemistry Chemical Physics, 2019, 21, 25196-25205.	2.8	20
31	Alkali-cation-incorporated and functionalized iron oxide nanoparticles for methyl blue removal/decomposition. Nanotechnology, 2020, 31, 425703.	2.6	18
32	Realization of 3D epoxy resin/Ti₃C₂T _x MXene aerogel composites for low-voltage electrothermal heating. 2D Materials, 2021, 8, 025022.	4.4	17
33	Extremely high thermal conductivity of graphene: Prospects for thermal management applications in silicon nanoelectronics. , 2008, , .		15
34	Spectroscopically forbidden infra-red emission in Au-vertical graphene hybrid nanostructures. Nanotechnology, 2017, 28, 465703.	2.6	12
35	Influence of nitrogen on the growth of vertical graphene nanosheets under plasma. Journal of Materials Science, 2018, 53, 7316-7325.	3.7	10
36	Electrochemical properties of vertically aligned graphenes: tailoring heterogeneous electron transfer through manipulation of the carbon microstructure. Nanoscale Advances, 2020, 2, 5319-5328.	4.6	10

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37	Effect of Annealing on the Structural Properties of Vertical Graphene Nanosheets. Advanced Science, Engineering and Medicine, 2016, 8, 146-149.	0.3	9
38	Identifying Efficient Cooling Approach of Cylindrical Lithiumâ€ion Batteries. Energy Technology, 2022, 10, 2100888.	3.8	5
39	Unused to useful: Recycling plasma chamber coated waste composite of ZnO and Î±-Fe2O3 into an active material for sustainable waste-water treatment. Chemical Engineering Journal Advances, 2021, 7, 100120.	5.2	4
40	Emerging Vertical Nanostructures for High-Performance Supercapacitor Applications. Environmental Chemistry for A Sustainable World, 2019, , 163-187.	0.5	2