

Dibakar Datta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

1,508
citations

16
h-index

34
g-index

34
ext. papers

1,659
ext. citations

6.3
avg, IF

4.71
L-index

#	Paper	IF	Citations
29	Drug repurposing for SARS-CoV-2: a high-throughput molecular docking, molecular dynamics, machine learning, and DFT study.. <i>Journal of Materials Science</i> , 2022 , 1-23	4.3	0
28	Variation in the interface strength of silicon with surface engineered TiC MXenes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 5540-5550	3.6	0
27	Understanding the Strength of the Selenium-Graphene Interfaces for Energy Storage Systems. <i>Langmuir</i> , 2021 , 37, 2029-2039	4	2
26	Selenium infiltrated hierarchical hollow carbon spheres display rapid kinetics and extended cycling as lithium metal battery (LMB) cathodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18582-18593	13	1
25	Controlled edge dependent stacking of WS-WS Homo- and WS-WSe Hetero-structures: A Computational Study. <i>Scientific Reports</i> , 2020 , 10, 1648	4.9	11
24	Computational study of the water-driven graphene wrinkle life-cycle towards applications in flexible electronics. <i>Scientific Reports</i> , 2020 , 10, 11315	4.9	2
23	Two-dimensional materials and its heterostructures for energy storage 2020 , 385-401		1
22	Machine learning in materials modeling fundamentals and the opportunities in 2D materials 2020 , 445-468		2
21	The inherent behavior of graphene flakes in water: A molecular dynamics study. <i>Computational Materials Science</i> , 2019 , 162, 140-147	3.2	4
20	A spectral approach for discrete dislocation dynamics simulations of nanoindentation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 055004	2	5
19	Utilizing van der Waals Slippery Interfaces to Enhance the Electrochemical Stability of Silicon Film Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13442-13451	9.5	38
18	Amorphous germanium as a promising anode material for sodium ion batteries: a first principle study. <i>Journal of Materials Science</i> , 2018 , 53, 14423-14434	4.3	15
17	Effect of cobalt content on the electrochemical properties and structural stability of NCA type cathode materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22805-22817	3.6	19
16	Thermal characteristics of graphene nanoribbons endorsed by surface functionalization. <i>Carbon</i> , 2017 , 113, 274-282	10.4	28
15	Interlayer shear of nanomaterials: Graphene-graphene, boron nitride-boron nitride and graphene-boron nitride. <i>Acta Mechanica Solida Sinica</i> , 2017 , 30, 234-240	2	17
14	Mechanical properties of graphene grain boundary and hexagonal boron nitride lateral heterostructure with controlled domain size. <i>Computational Materials Science</i> , 2017 , 126, 474-478	3.2	20
13	Anomalous mechanical characteristics of graphene with tilt grain boundaries tuned by hydrogenation. <i>Carbon</i> , 2015 , 90, 234-241	10.4	26

12	Effect of crack length and orientation on the mixed-mode fracture behavior of graphene. <i>Extreme Mechanics Letters</i> , 2015 , 5, 10-17	3.9	39
11	Surface hydrogenation regulated wrinkling and torque capability of hydrogenated graphene annulus under circular shearing. <i>Scientific Reports</i> , 2015 , 5, 16556	4.9	12
10	Defective graphene as a high-capacity anode material for Na- and Ca-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1788-95	9.5	301
9	Defect-induced plating of lithium metal within porous graphene networks. <i>Nature Communications</i> , 2014 , 5, 3710	17.4	329
8	Mechanical properties of hydrogen functionalized graphene allotropes. <i>Computational Materials Science</i> , 2014 , 83, 212-216	3.2	42
7	Atomistic Mechanisms of Phase Boundary Evolution during Initial Lithiation of Crystalline Silicon. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17247-17253	3.8	38
6	Patterned arrangement regulated mechanical properties of hydrogenated graphene. <i>Computational Materials Science</i> , 2014 , 93, 68-73	3.2	10
5	Enhanced lithiation in defective graphene. <i>Carbon</i> , 2014 , 80, 305-310	10.4	149
4	Mechanical properties of amorphous Li _x Si alloys: a reactive force field study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 074002	2	91
3	Aerosol synthesis of cargo-filled graphene nanosacks. <i>Nano Letters</i> , 2012 , 12, 1996-2002	11.5	166
2	Graphene-based environmental barriers. <i>Environmental Science & Technology</i> , 2012 , 46, 7717-24	10.3	110
1	Plastic deformation drives wrinkling, saddling, and wedging of annular bilayer nanostructures. <i>Nano Letters</i> , 2010 , 10, 5098-102	11.5	26