Priya Johari

List of Publications by Year
in descending order

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29 papers	2,328 citations	430874 18 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	4267 citing authors

#	Article	IF	Citations
1	Tuning the Electronic Properties of Semiconducting Transition Metal Dichalcogenides by Applying Mechanical Strains. ACS Nano, 2012, 6, 5449-5456.	14.6	809
2	Elastic softening of amorphous and crystalline Liâ€“Si Phases with increasing Li concentration: A first-principles study. Journal of Power Sources, 2010, 195, 6825-6830.	7.8	367
3	Modulating Optical Properties of Graphene Oxide: Role of Prominent Functional Groups. ACS Nano, 2011, 5, 7640-7647.	14.6	216
4	The Mixing Mechanism during Lithiation of Si Negative Electrode in Li-Ion Batteries: An Ab Initio Molecular Dynamics Study. Nano Letters, 2011, 11, 5494-5500.	9.1	155
5	Tunable Dielectric Properties of Transition Metal Dichalcogenides. ACS Nano, 2011, 5, 5903-5908.	14.6	129
6	An experimental and computational study to understand the lithium storage mechanism in molybdenum disulfide. Nanoscale, 2014, 6, 10243-10254.	5.6	103
7	Li Segregation Induces Structure and Strength Changes at the Amorphous Si/Cu Interface. Nano Letters, 2013, 13, 4759-4768.	9.1	75
8	Understanding the Li-storage in few layers graphene with respect to bulk graphite: experimental, analytical and computational study. Journal of Materials Chemistry A, 2017, 5, 8662-8679.	10.3	70
9	Spatially-Resolved Structure and Electronic Properties of Graphene on Polycrystalline Ni. ACS Nano, 2010, 4, 7073-7077.	14.6	52
10	Impact of Cl Doping on Electrochemical Performance in Orthosilicate (Li₂FeSiO₄): A Density Functional Theory Supported Experimental Approach. ACS Applied Materials & Interfaces, 2017, 9, 26885-26896.	8.0	37
11	Energy storage performance of 2D MoS₂and carbon nanotube heterojunctions in symmetric and asymmetric configuration. Nanotechnology, 2021, 32, 155403.	2.6	30
12	Enhanced and Faster Potassium Storage in Graphene with Respect to Graphite: A Comparative Study with Lithium Storage. ACS Nano, 2019, 13, 2190-2204.	14.6	27
13	First-Principles Investigation of the 1T-HfTe₂ Nanosheet for Selective Gas Sensing. ACS Applied Nano Materials, 2020, 3, 5160-5171.	5.0	27
14	Understanding the Lithiation of the Sn Anode for High-Performance Li-Ion Batteries with Exploration of Novel Liâ€“Sn Compounds at Ambient and Moderately High Pressure. ACS Applied Materials & Interfaces, 2017, 9, 40197-40206.	8.0	25
15	Modulation of electronic and transport properties of bilayer heterostructures: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>InSe</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>MoS</mml:mi> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>InSe</mml:mi><mml:mo>/</mml:mo><mml:mi>h</mml:mi></mml:m -BN as the prototype. Physical Review B, 2020, 101, .	3.2	25
16	One-Dimensional-Sn₂X₃ (X = S, Se) as Promising Optoelectronic and Thermoelectronic Materials: A Comparison with Three-Dimensional-Sn₂X₃. ACS Applied Materials & Interfaces, 2019, 11, 12733-12744.	8.0	22
17	Study of Higher Discharge Capacity, Phase Transition, and Relative Structural Stability in Li₂FeSiO₄ Cathode upon Lithium Extraction Using an Experimental and Theoretical Approach and Full Cell Prototype Study. ACS Applied Energy Materials, 2019, 2, 6584-6598.	5.1	21
18	Magnesium polysulfide catholyte (MgSx): Synthesis, electrochemical and computational study for magnesium-sulfur battery application. Journal of Power Sources, 2021, 486, 229326.	7.8	21

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19	Rationally designed donorâ€“acceptor scheme based molecules for applications in opto-electronic devices. Physical Chemistry Chemical Physics, 2016, 18, 9133-9147.	2.8	17
20	Strategical Designing of Donorâ€“Acceptorâ€“Donor Based Organic Molecules for Tuning Their Linear Optical Properties. Journal of Physical Chemistry A, 2018, 122, 492-504.	2.5	17
21	Kinetics of thermally activated triplet fusion as a function of polymer chain packing in boosting the efficiency of organic light emitting diodes. Npj Flexible Electronics, 2018, 2, .	10.7	17
22	Influence of Pendant Group on Mobility of Organic Thin Film Transistor in Correlation with Reorganization Energy of Molecules. Advanced Functional Materials, 2019, 29, 1805878.	14.9	13
23	Dependence of the Structure and Electronic Properties of Dâ€“Aâ€“D Based Molecules on the D/A Ratio and the Strength of the Acceptor Moiety. Journal of Physical Chemistry C, 2015, 119, 14890-14899.	3.1	12
24	Synergistic Effect of Singly Charged Oxygen Vacancies and Ligand Field for Regulating Transport Properties of Resistive Switching Memories. Journal of Physical Chemistry C, 2019, 123, 26812-26822.	3.1	11
25	Control of Functionalities in GO: Effect of Bronsted Acids as Supported by Ab Initio Simulations and Experiments. ACS Omega, 2019, 4, 9407-9418.	3.5	10
26	Effect of cobalt doping on the enhanced energy storage performance of 2D vanadium diselenide: experimental and theoretical investigations. Nanotechnology, 2022, 33, 295703.	2.6	7
27	Structureâ€“Property Relationship in an Organic Semiconductor: Insights from Energy Frameworks, Charge Density Analysis, and Diode Devices. Crystal Growth and Design, 2019, 19, 3019-3029.	3.0	6
28	Using Density Functional Theory to Correlate Charge Transport Properties with Gas Sensing by Organic Nanowires. ACS Applied Nano Materials, 2021, 4, 5972-5980.	5.0	5
29	Metal-induced progressive alteration of conducting states in memristors for implementing an efficient analog memory: a DFT-supported experimental approach. Journal of Materials Chemistry C, 2021, 9, 3136-3144.	5.5	2