Srimanta Pakhira

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	S-Doped MoP Nanoporous Layer Toward High-Efficiency Hydrogen Evolution in pH-Universal Electrolyte. ACS Catalysis, 2019, 9, 651-659.	5.5	167
2	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (W _{<i>x</i>} Mo _{1–<i>x</i>} S ₂) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. ACS Nano, 2017, 11, 5103-5112.	7.3	157
3	Apically Dominant Mechanism for Improving Catalytic Activities of Nâ€Doped Carbon Nanotube Arrays in Rechargeable Zinc–Air Battery. Advanced Energy Materials, 2018, 8, 1800480.	10.2	153
4	Achieving Fast and Efficient K ⁺ Intercalation on Ultrathin Graphene Electrodes Modified by a Li ⁺ Based Solid-Electrolyte Interphase. Journal of the American Chemical Society, 2018, 140, 13599-13603.	6.6	54
5	Hybridization of Co ₃ O ₄ and α-MnO ₂ Nanostructures for High-Performance Nonenzymatic Glucose Sensing. ACS Sustainable Chemistry and Engineering, 2018, 6, 13248-13261.	3.2	54
6	Iron Intercalation in Covalent–Organic Frameworks: A Promising Approach for Semiconductors. Journal of Physical Chemistry C, 2017, 121, 21160-21170.	1.5	46
7	Modulating Electrocatalysis on Graphene Heterostructures: Physically Impermeable Yet Electronically Transparent Electrodes. ACS Nano, 2018, 12, 2980-2990.	7.3	45
8	Large and Uniform Single Crystals of MoS ₂ Monolayers for ppb-Level NO ₂ Sensing. ACS Applied Nano Materials, 2022, 5, 9415-9426.	2.4	44
9	Synthesis and Characterization of Tris-chelate Complexes for Understanding <i>f</i> -Orbital Bonding in Later Actinides. Journal of the American Chemical Society, 2019, 141, 2356-2366.	6.6	41
10	Constructing a High-Performance Aqueous Rechargeable Zinc-Ion Battery Cathode with Self-Assembled Mat-like Packing of Intertwined Ag(I) Pre-Inserted V ₃ O ₇ ·H ₂ O Microbelts with Reduced Graphene Oxide Core. ACS Sustainable Chemistry and Engineering, 2021, 9, 3985-3995.	3.2	40
11	Diverse Rotational Flexibility of Substituted Dicarboxylate Ligands in Functional Porous Coordination Polymers. Journal of Physical Chemistry C, 2015, 119, 28789-28799.	1.5	31
12	Tuning the Dirac Cone of Bilayer and Bulk Structure Graphene by Intercalating First Row Transition Metals Using First-Principles Calculations. Journal of Physical Chemistry C, 2018, 122, 4768-4782.	1.5	30
13	Rapidly Reversible Organic Crystalline Switch for Conversion of Heat into Mechanical Energy. Journal of the American Chemical Society, 2021, 143, 5951-5957.	6.6	29
14	A Quantum Monte Carlo Study of the Reactions of CH with Acrolein. Journal of Physical Chemistry A, 2015, 119, 4214-4223.	1.1	28
15	Intercalation of first row transition metals inside covalent-organic frameworks (COFs): a strategy to fine tune the electronic properties of porous crystalline materials. Physical Chemistry Chemical Physics, 2019, 21, 8785-8796.	1.3	28
16	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. Nanoscale, 2019, 11, 18449-18463.	2.8	27
17	Catalyzing the Intercalation Storage Capacity of Aqueous Zinc-Ion Battery Constructed with Zn(II) Preinserted Organo-Vanadyl Hybrid Cathode. ACS Applied Energy Materials, 2020, 3, 3425-3434.	2.5	27
18	Mechanism of electrochemical oxygen reduction reaction at two-dimensional Pt-doped MoSe ₂ material: an efficient electrocatalyst. Journal of Materials Chemistry C, 2021, 9, 11331-11342.	2.7	27

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19	Demystifying the Mechanism of Regio- and Isoselective Epoxide Polymerization Using the Vandenberg Catalyst. Macromolecules, 2018, 51, 1777-1786.	2.2	26
20	Tunability of the Electronic Properties of Covalent Organic Frameworks. ACS Applied Electronic Materials, 2021, 3, 720-732.	2.0	26
21	Performance of dispersion-corrected double hybrid density functional theory: A computational study of OCS-hydrocarbon van der Waals complexes. Journal of Chemical Physics, 2013, 138, 164319.	1.2	25
22	Rotational dynamics of the organic bridging linkers in metal–organic frameworks and their substituent effects on the rotational energy barrier. RSC Advances, 2019, 9, 38137-38147.	1.7	24
23	Recent advancements of two-dimensional transition metal dichalcogenides and their applications in electrocatalysis and energy storage. Emergent Materials, 2021, 4, 951-970.	3.2	24
24	Energy framework approach to the supramolecular reactions: interplay of the secondary bonding interaction in Ph ₂ E ₂ (E = Se, Te)/ <i>p</i> -I-C ₆ F ₄ -I co-crystals. New Journal of Chemistry, 2019, 43, 7941-7949.	1.4	22
25	Quantum Monte Carlo Study of the Reactions of CH with Acrolein: Major and Minor Channels. Journal of Physical Chemistry A, 2016, 120, 3602-3612.	1.1	21
26	Unveiling the role of 2D monolayer Mn-doped MoS ₂ material: toward an efficient electrocatalyst for H ₂ evolution reaction. Physical Chemistry Chemical Physics, 2021, 24, 265-280.	1.3	21
27	Dirac cone in two dimensional bilayer graphene by intercalation with V, Nb, and Ta transition metals. Journal of Chemical Physics, 2018, 148, 064707.	1.2	20
28	A Computational Study of Detoxification of Lewisite Warfare Agents by British Anti-lewisite: Catalytic Effects of Water and Ammonia on Reaction Mechanism and Kinetics. Journal of Physical Chemistry A, 2013, 117, 3496-3506.	1.1	19
29	Can two T-shaped isomers of OCS–C2H2 van der Waals complex exist?. Chemical Physics Letters, 2012, 549, 6-11.	1.2	16
30	Dispersion corrected double high-hybrid and gradient-corrected density functional theory study of light cation–dihydrogen (M+–H2, where MÂ=ÂLi, Na, B and Al) van der Waals complexes. Structural Chemistry, 2013, 24, 549-558.	1.0	16
31	Interactions between metal cations with H2 in the M+- H2 complexes: Performance of DFT and DFT-D methods. Journal of Chemical Sciences, 2016, 128, 621-631.	0.7	16
32	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. Materials Today, 2021, 51, 108-116.	8.3	16
33	Spectroscopic properties of I2–Rg (Rg=He, Ne, Ar) van der Waals complexes. Chemical Physics Letters, 2011, 505, 81-86.	1.2	15
34	Reaction mechanism of the selective reduction of CO ₂ to CO by a tetraaza [Co ^{II} N ₄ H] ²⁺ complex in the presence of protons. Physical Chemistry Chemical Physics, 2018, 20, 24058-24064.	1.3	15
35	Spectroscopy and dissociation of I2–Rg (RgÂ=ÂKr and Xe) van der Waals complexes. Theoretical Chemistry Accounts, 2011, 130, 95-101.	0.5	14
36	Binderâ€Free ZnO Cathode synthesized via ALD by Direct Growth of Hierarchical ZnO Nanostructure on Current Collector for Highâ€Performance Rechargeable Aluminiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 12512-12523.	0.7	14

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37	Substituents Effects of Organic Linkers on Rotational Energy Barriers in Metalâ€Organic Frameworks. ChemistrySelect, 2019, 4, 8584-8592.	0.7	14
38	Pyrene-based fluorescent Ru(<scp>ii</scp>)-arene complexes for significant biological applications: catalytic potential, DNA/protein binding, two photon cell imaging and <i>in vitro</i> cytotoxicity. Dalton Transactions, 2022, 51, 3937-3953.	1.6	14
39	Efficient electrocatalytic H ₂ evolution mediated by 2D Janus MoSSe transition metal dichalcogenide. Sustainable Energy and Fuels, 2022, 6, 1733-1752.	2.5	14
40	Quantum Nature in the Interaction of Molecular Hydrogen with Porous Materials: Implications for Practical Hydrogen Storage. Journal of Physical Chemistry C, 2020, 124, 6454-6460.	1.5	12
41	Mechanistic Insight for Targeting Biomolecules by Ruthenium(II) NSAID Complexes. ACS Applied Bio Materials, 2020, 3, 4600-4612.	2.3	11
42	Control of Diffusion and Conformation Behavior of Methyl Methacrylate Monomer by Phenylene Fin in Porous Coordination Polymers. Journal of Physical Chemistry C, 2015, 119, 27291-27297.	1.5	10
43	Theoretical study of spectroscopy, interaction, and dissociation of linear and T-shaped isomers of RgClF (RgÂ=ÂHe, Ne, and Ar) van der Waals complexes. Structural Chemistry, 2012, 23, 681-692.	1.0	8
44	Theoretical study of efficiency of metal cations (Mg ⁺ , Ca ⁺ , and) Tj ETQq0 0 0 rgBT /Ov	verlock 10 0.8	Tf 50 462 Td
45	Association reaction between SiH3 and H2O2: a computational study of the reaction mechanism and kinetics. Theoretical Chemistry Accounts, 2013, 132, 1.	0.5	7
46	Structure, stability, and dissociation of small ionic silicon oxide clusters [SiOn+(n = 3, 4)]: Insight from density functional and topological exploration. Journal of Chemical Physics, 2013, 139, 234303.	1.2	7
47	H ₂ physisorption on covalent organic framework linkers and metalated linkers: a strategy to enhance binding strength. Molecular Systems Design and Engineering, 2022, 7, 577-591.	1.7	7
48	Selective anticancer activities of ruthenium(II)-tetrazole complexes and their mechanistic insights. BioMetals, 2021, 34, 795-812.	1.8	6
49	Coupled cluster study of structural properties of RgI and RgIâ^' (RgÂ=ÂHe, Ne, Ar) weakly bound molecules. Structural Chemistry, 2011, 22, 893-900.	1.0	5
50	Binding affinity of substituted ureidoâ€benzenesulfonamide ligands to the carbonic anhydrase receptor: A theoretical study of enzyme inhibition. Journal of Computational Chemistry, 2013, 34, 1907-1916.	1.5	5
51	Hydrogen: A Future Chemical Fuel. Materials Horizons, 2022, , 1-30.	0.3	5
52	Generation of emissive nanosphere from micro-aggregates in anionic perylene diimide: Co-relation of self-assembly, emission, and electrical properties. Dyes and Pigments, 2021, 192, 109461.	2.0	4
53	Electrochemical Water Splitting: H2 Evolution Reaction. Materials Horizons, 2022, , 59-89.	0.3	2