

Srimanta Pakhira

List of Publications by Year in descending order

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53
papers

1,517
citations

304368

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329751

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docs citations

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times ranked

2022
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrene-based fluorescent Ru(II)-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
2	Hydrogen: A Future Chemical Fuel. Materials Horizons, 2022, , 1-30.	0.3	5
3	Electrochemical Water Splitting: H ₂ Evolution Reaction. Materials Horizons, 2022, , 59-89.	0.3	2
4	Efficient electrocatalytic H ₂ evolution mediated by 2D Janus MoSSe transition metal dichalcogenide. Sustainable Energy and Fuels, 2022, 6, 1733-1752.	2.5	14
5	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
6	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
7	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
8	Constructing a High-Performance Aqueous Rechargeable Zinc-Ion Battery Cathode with Self-Assembled Mat-like Packing of Intertwined Ag(I) Pre-Inserted V ₂ O ₇ ·H ₂ O Microbelts with Reduced Graphene Oxide Core. ACS Sustainable Chemistry and Engineering, 2021, 9, 3985-3995.	3.2	40
9	Selective anticancer activities of ruthenium(II)-tetrazole complexes and their mechanistic insights. BioMetals, 2021, 34, 795-812.	1.8	6
10	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
11	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
12	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
13	Tunability of the Electronic Properties of Covalent Organic Frameworks. ACS Applied Electronic Materials, 2021, 3, 720-732.	2.0	26
14	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. Materials Today, 2021, 51, 108-116.	8.3	16
15	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
16	Mechanistic Insight for Targeting Biomolecules by Ruthenium(II) NSAID Complexes. ACS Applied Bio Materials, 2020, 3, 4600-4612.	2.3	11
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	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

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19	Substituents Effects of Organic Linkers on Rotational Energy Barriers in Metal-Organic Frameworks. <i>ChemistrySelect</i> , 2019, 4, 8584-8592.	0.7	14
20	Energy framework approach to the supramolecular reactions: interplay of the secondary bonding interaction in Ph ₂ E ₂ (E = Se, Te)·p-C ₆ F ₄ -I co-crystals. <i>New Journal of Chemistry</i> , 2019, 43, 7941-7949.	1.4	22
21	Intercalation of first row transition metals inside covalent-organic frameworks (COFs): a strategy to fine tune the electronic properties of porous crystalline materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8785-8796.	1.3	28
22	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019, 11, 18449-18463.	2.8	27
23	Rotational dynamics of the organic bridging linkers in metal-organic frameworks and their substituent effects on the rotational energy barrier. <i>RSC Advances</i> , 2019, 9, 38137-38147.	1.7	24
24	S-Doped MoP Nanoporous Layer Toward High-Efficiency Hydrogen Evolution in pH-Universal Electrolyte. <i>ACS Catalysis</i> , 2019, 9, 651-659.	5.5	167
25	Synthesis and Characterization of Tris-chelate Complexes for Understanding f-Orbital Bonding in Later Actinides. <i>Journal of the American Chemical Society</i> , 2019, 141, 2356-2366.	6.6	41
26	Demystifying the Mechanism of Regio- and Isolelective Epoxide Polymerization Using the Vandenberg Catalyst. <i>Macromolecules</i> , 2018, 51, 1777-1786.	2.2	26
27	Apically Dominant Mechanism for Improving Catalytic Activities of N-Doped Carbon Nanotube Arrays in Rechargeable Zinc-Air Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1800480.	10.2	153
28	Modulating Electrocatalysis on Graphene Heterostructures: Physically Impermeable Yet Electronically Transparent Electrodes. <i>ACS Nano</i> , 2018, 12, 2980-2990.	7.3	45
29	Dirac cone in two dimensional bilayer graphene by intercalation with V, Nb, and Ta transition metals. <i>Journal of Chemical Physics</i> , 2018, 148, 064707.	1.2	20
30	Tuning the Dirac Cone of Bilayer and Bulk Structure Graphene by Intercalating First Row Transition Metals Using First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4768-4782.	1.5	30
31	Binder-Free ZnO Cathode synthesized via ALD by Direct Growth of Hierarchical ZnO Nanostructure on Current Collector for High-Performance Rechargeable Aluminium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 12512-12523.	0.7	14
32	Achieving Fast and Efficient K ⁺ Intercalation on Ultrathin Graphene Electrodes Modified by a Li ⁺ Based Solid-Electrolyte Interphase. <i>Journal of the American Chemical Society</i> , 2018, 140, 13599-13603.	6.6	54
33	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. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24058-24064.	1.3	15
34	Hybridization of Co ₃ O ₄ and ±-MnO ₂ Nanostructures for High-Performance Nonenzymatic Glucose Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13248-13261.	3.2	54
35	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (W _x Mo _{1-x} S ₂) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. <i>ACS Nano</i> , 2017, 11, 5103-5112.	7.3	157
36	Iron Intercalation in Covalent-Organic Frameworks: A Promising Approach for Semiconductors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21160-21170.	1.5	46

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37	Quantum Monte Carlo Study of the Reactions of CH with Acrolein: Major and Minor Channels. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3602-3612.	1.1	21
38	Interactions between metal cations with H ₂ in the M ⁺ -H ₂ complexes: Performance of DFT and DFT-D methods. <i>Journal of Chemical Sciences</i> , 2016, 128, 621-631.	0.7	16
39	Diverse Rotational Flexibility of Substituted Dicarboxylate Ligands in Functional Porous Coordination Polymers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28789-28799.	1.5	31
40	Control of Diffusion and Conformation Behavior of Methyl Methacrylate Monomer by Phenylene Fin in Porous Coordination Polymers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27291-27297.	1.5	10
41	A Quantum Monte Carlo Study of the Reactions of CH with Acrolein. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4214-4223.	1.1	28
42	Theoretical study of efficiency of metal cations (Mg ⁺ , Ca ⁺ , and Tl ⁺) in the M ⁺ -H ₂ complexes. <i>Journal of Chemical Sciences</i> , 2016, 128, 621-631.	0.8	10
43	Association reaction between SiH ₃ and H ₂ O ₂ : a computational study of the reaction mechanism and kinetics. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	7
44	Binding affinity of substituted ureido-benzenesulfonamide ligands to the carbonic anhydrase receptor: A theoretical study of enzyme inhibition. <i>Journal of Computational Chemistry</i> , 2013, 34, 1907-1916.	1.5	5
45	Performance of dispersion-corrected double hybrid density functional theory: A computational study of OCS-hydrocarbon van der Waals complexes. <i>Journal of Chemical Physics</i> , 2013, 138, 164319.	1.2	25
46	Structure, stability, and dissociation of small ionic silicon oxide clusters [SiO _n ⁺ (n = 3, 4)]: Insight from density functional and topological exploration. <i>Journal of Chemical Physics</i> , 2013, 139, 234303.	1.2	7
47	Dispersion corrected double high-hybrid and gradient-corrected density functional theory study of light cation-dihydrogen (M ⁺ -H ₂ , where M = Li, Na, B and Al) van der Waals complexes. <i>Structural Chemistry</i> , 2013, 24, 549-558.	1.0	16
48	A Computational Study of Detoxification of Lewisite Warfare Agents by British Anti-lewisite: Catalytic Effects of Water and Ammonia on Reaction Mechanism and Kinetics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3496-3506.	1.1	19
49	Can two T-shaped isomers of OCS-C ₂ H ₂ van der Waals complex exist?. <i>Chemical Physics Letters</i> , 2012, 549, 6-11.	1.2	16
50	Theoretical study of spectroscopy, interaction, and dissociation of linear and T-shaped isomers of RgClF (Rg = He, Ne, and Ar) van der Waals complexes. <i>Structural Chemistry</i> , 2012, 23, 681-692.	1.0	8
51	Coupled cluster study of structural properties of RgI and RgI ⁺ (Rg = He, Ne, Ar) weakly bound molecules. <i>Structural Chemistry</i> , 2011, 22, 893-900.	1.0	5
52	Spectroscopy and dissociation of I ₂ -Rg (Rg = Kr and Xe) van der Waals complexes. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 95-101.	0.5	14
53	Spectroscopic properties of I ₂ -Rg (Rg = He, Ne, Ar) van der Waals complexes. <i>Chemical Physics Letters</i> , 2011, 505, 81-86.	1.2	15