

Aditi Bhattacharjee

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,016
citations

430754

18
h-index

580701

25
g-index

25
all docs

25
docs citations

25
times ranked

1338
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Water-Induced Restructuring of the Surface of a Deep Eutectic Solvent. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 634-641. | 2.1 | 11 |
| 2 | Singlet and Triplet Contributions to the Excited-State Activities of Dihydrophenazine, Phenoxazine, and Phenothiazine Organocatalysts Used in Atom Transfer Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2021, 143, 3613-3627. | 6.6 | 39 |
| 3 | Structure-Dependent Electron Transfer Rates for Dihydrophenazine, Phenoxazine, and Phenothiazine Photoredox Catalysts Employed in Atom Transfer Radical Polymerization. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7840-7854. | 1.2 | 22 |
| 4 | Mapping the multi-step mechanism of a photoredox catalyzed atom-transfer radical polymerization reaction by direct observation of the reactive intermediates. <i>Chemical Science</i> , 2020, 11, 4475-4481. | 3.7 | 28 |
| 5 | Solvent-dependent photochemical dynamics of a phenoxazine-based photoredox catalyst. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 1475-1494. | 1.4 | 10 |
| 6 | Picosecond to millisecond tracking of a photocatalytic decarboxylation reaction provides direct mechanistic insights. <i>Nature Communications</i> , 2019, 10, 5152. | 5.8 | 24 |
| 7 | Tracing the 267 nm-Induced Radical Formation in Dimethyl Disulfide Using Time-Resolved X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1382-1387. | 2.1 | 24 |
| 8 | Nâ€“Hâ€“S Interaction Continues To Be an Enigma: Experimental and Computational Investigations of Hydrogen-Bonded Complexes of Benzimidazole with Thioethers. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4313-4321. | 1.1 | 21 |
| 9 | Ultrafast X-ray Transient Absorption Spectroscopy of Gas-Phase Photochemical Reactions: A New Universal Probe of Photoinduced Molecular Dynamics. <i>Accounts of Chemical Research</i> , 2018, 51, 3203-3211. | 7.6 | 53 |
| 10 | Electron-Withdrawing Effects in the Photodissociation of CH ₂ ICl To Form CH ₂ Cl Radical, Simultaneously Viewed Through the Carbon K and Chlorine L _{2,3} X-ray Edges. <i>Journal of the American Chemical Society</i> , 2018, 140, 13360-13366. | 6.6 | 14 |
| 11 | Photoinduced Heterocyclic Ring Opening of Furfural: Distinct Open-Chain Product Identification by Ultrafast X-ray Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 12538-12544. | 6.6 | 34 |
| 12 | Role of the C(2)â€“H Hydrogen Bond Donor in Gas-Phase Microsolvation of Imidazole Derivatives with ROH (R = CH ₃ , C ₂ H ₅). <i>Journal of Physical Chemistry A</i> , 2017, 121, 4283-4295. | 1.1 | 9 |
| 13 | Femtosecond x-ray spectroscopy of an electrocyclic ring-opening reaction. <i>Science</i> , 2017, 356, 54-59. | 6.0 | 253 |
| 14 | Ultrafast Intersystem Crossing in Acetylacetone via Femtosecond X-ray Transient Absorption at the Carbon K-Edge. <i>Journal of the American Chemical Society</i> , 2017, 139, 16576-16583. | 6.6 | 68 |
| 15 | Nature and Hierarchy of Noncovalent Interactions in Gas-Phase Binary Complexes of Indole and Benzimidazole with Ethers. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8815-8824. | 1.1 | 7 |
| 16 | Conformational Heterogeneity and the Role of the C(2)â€“H Donor in Mono- and Dihydrated Clusters of Benzoxazole. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5420-5427. | 1.1 | 4 |
| 17 | Transition state region in the A-Band photodissociation of allyl iodideâ€“A femtosecond extreme ultraviolet transient absorption study. <i>Journal of Chemical Physics</i> , 2016, 144, 124311. | 1.2 | 14 |
| 18 | Water bridges anchored by a Câ€“Hâ€“O hydrogen bond: the role of weak interactions in molecular solvation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27745-27749. | 1.3 | 19 |

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|----|--|-----|-----------|
| 19 | Direct Observation of the Transition-State Region in the Photodissociation of CH ₃ by Femtosecond Extreme Ultraviolet Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5072-5077. | 2.1 | 60 |
| 20 | Acid-Base Formalism in Dispersion-Stabilized S-H...Y (Y=O, S) Hydrogen-Bonding Interactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1117-1126. | 1.1 | 25 |
| 21 | Conformational preferences of monohydrated clusters of imidazole derivatives revisited. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20080-20092. | 1.3 | 23 |
| 22 | Critical Assessment of the Strength of Hydrogen Bonds between the Sulfur Atom of Methionine/Cysteine and Backbone Amides in Proteins. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1385-1389. | 2.1 | 76 |
| 23 | Nature and strength of sulfur-centred hydrogen bonds: laser spectroscopic investigations in the gas phase and quantum-chemical calculations. <i>International Reviews in Physical Chemistry</i> , 2015, 34, 99-160. | 0.9 | 71 |
| 24 | O-H...S Hydrogen Bonds Conform to the Acid-Base Formalism. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8238-8250. | 1.1 | 51 |
| 25 | The Intermolecular S-H...Y (Y=S,O) Hydrogen Bond in the H ₂ S Dimer and the H ₂ S...MeOH Complex. <i>ChemPhysChem</i> , 2013, 14, 905-914. | 1.0 | 56 |