

# 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	Femtosecond x-ray spectroscopy of an electrocyclic ring-opening reaction. <i>Science</i> , 2017, 356, 54-59.	6.0	253
2	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
3	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
4	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
5	Direct Observation of the Transition-State Region in the Photodissociation of CH <sub>3</sub> I by Femtosecond Extreme Ultraviolet Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5072-5077.	2.1	60
6	The Intermolecular S <sub>1</sub> →H <sub>2</sub> ... $\hat{\alpha}$ ... $\hat{\alpha}$ ...Y (Y=S,O) Hydrogen Bond in the H <sub>2</sub> S Dimer and the H <sub>2</sub> S $\hat{\alpha}$ MeOH Complex. <i>ChemPhysChem</i> , 2013, 14, 905-914.	1.0	56
7	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
8	O $\hat{\alpha}$ H $\hat{\alpha}$ S Hydrogen Bonds Conform to the Acid $\hat{\alpha}$ Base Formalism. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8238-8250.	1.1	51
9	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
10	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
11	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
12	Acid $\hat{\alpha}$ Base Formalism in Dispersion-Stabilized S $\hat{\alpha}$ H $\hat{\alpha}$ Y (Y $\hat{\alpha}$ O, S) Hydrogen-Bonding Interactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1117-1126.	1.1	25
13	Picosecond to millisecond tracking of a photocatalytic decarboxylation reaction provides direct mechanistic insights. <i>Nature Communications</i> , 2019, 10, 5152.	5.8	24
14	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
15	Conformational preferences of monohydrated clusters of imidazole derivatives revisited. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20080-20092.	1.3	23
16	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
17	N $\hat{\alpha}$ H $\hat{\alpha}$ 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
18	Water bridges anchored by a C $\hat{\alpha}$ H $\hat{\alpha}$ O hydrogen bond: the role of weak interactions in molecular solvation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27745-27749.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Transition state region in the A-Band photodissociation of allyl iodide—A femtosecond extreme ultraviolet transient absorption study. <i>Journal of Chemical Physics</i> , 2016, 144, 124311.	1.2	14
20	Electron-Withdrawing Effects in the Photodissociation of CH <sub>2</sub> Cl To Form CH <sub>2</sub> Cl Radical, Simultaneously Viewed Through the Carbon K and Chlorine L <sub>2,3</sub> X-ray Edges. <i>Journal of the American Chemical Society</i> , 2018, 140, 13360-13366.	6.6	14
21	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
22	Solvent-dependent photochemical dynamics of a phenoxazine-based photoredox catalyst. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 1475-1494.	1.4	10
23	Role of the C(2)-H Hydrogen Bond Donor in Gas-Phase Microsolvation of Imidazole Derivatives with ROH (R = CH <sub>3</sub> , C <sub>2</sub> H <sub>5</sub> ). <i>Journal of Physical Chemistry A</i> , 2017, 121, 4283-4295.	1.1	9
24	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
25	Conformational Heterogeneity and the Role of the C(2)-H Donor in Mono- and Dihydrated Clusters of Benzoxazole. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5420-5427.	1.1	4