

# Subrata Paul

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

271  
citations

1162367

8  
h-index

940134

16  
g-index

22  
all docs

22  
docs citations

22  
times ranked

317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the Counteracting Effect of Trehalose on Urea-Induced Protein Denaturation Using Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10975-10988.	1.2	41
2	Molecular Insights into the Role of Aqueous Trehalose Solution on Temperature-Induced Protein Denaturation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1598-1610.	1.2	35
3	Tropospheric degradation of 2-fluoropropene (CH <sub>3</sub> CFCH <sub>2</sub> ) initiated by hydroxyl radical: Reaction mechanisms, kinetics and atmospheric implications from DFT study. <i>Chemosphere</i> , 2020, 238, 124556.	4.2	30
4	Exploring the Counteracting Mechanism of Trehalose on Urea Conferred Protein Denaturation: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9820-9834.	1.2	27
5	First Report of Plant-Derived Î²-Sitosterol with Antithrombotic, in Vivo Anticoagulant, and Thrombus-Preventing Activities in a Mouse Model. <i>Journal of Natural Products</i> , 2018, 81, 2521-2530.	1.5	24
6	The influence of trehalose on hydrophobic interactions of small nonpolar solute: A molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2013, 139, 044508.	1.2	20
7	Trehalose Induced Modifications in the Solvation Pattern of N-Methylacetamide. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1052-1063.	1.2	17
8	Kinetics, mechanism, and global warming potentials of HFO-1234yf initiated by O <sub>3</sub> molecules and NO <sub>3</sub> radicals: insights from quantum study. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26144-26156.	2.7	10
9	Atmospheric oxidation of 2-fluoropropene (CH <sub>3</sub> CFCH <sub>2</sub> ) with Cl atom and aerial degradation of its product radicals by computational study. <i>New Journal of Chemistry</i> , 2020, 44, 3434-3444.	1.4	10
10	Tropospheric Oxidation of 1-Heptafluorocyclopentene (cyc-CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CH <sub>2</sub> ) with OH Radicals: Reaction Mechanism, Kinetics, and Global Warming Potentials. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1792-1800.	1.2	9
11	Mechanistic investigation of the atmospheric oxidation of bis(2-chloroethyl) ether (ClCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> Cl) by OH and NO <sub>3</sub> radicals and Cl atoms: a DFT approach. <i>Journal of Molecular Modeling</i> , 2019, 25, 43.	0.8	8
12	Atmospheric impact of Z- and E-isomers of CF <sub>3</sub> CH=CHCF <sub>3</sub> molecule initiated by OH radicals: Reaction mechanisms, kinetics and global warming potential. <i>International Journal of Refrigeration</i> , 2019, 101, 167-177.	1.8	8
13	Atmospheric oxidation of HFE-7300 [n-C <sub>2</sub> F <sub>5</sub> CF(OCH <sub>3</sub> )CF(CF <sub>3</sub> ) <sub>2</sub> ] initiated by OH/Cl oxidants and subsequent degradation of its product radical: a DFT approach. <i>Environmental Science and Pollution Research</i> , 2020, 27, 907-920.	2.7	8
14	Influence of temperature on the solvation of N-methylacetamide in aqueous trehalose solution: A molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2015, 211, 986-999.	2.3	4
15	Quantum chemical study on the reaction mechanism and kinetics of Cl-initiated oxidation of methyl n-propyl ether. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	4
16	Atmospheric insight into the reaction mechanism and kinetics of isopropenyl methyl ether (i-PME) initiated by OH radicals and subsequent oxidation of product radicals. <i>Environmental Science and Pollution Research</i> , 2021, 28, 45646-45662.	2.7	4
17	Oxidation pathways, kinetics and branching ratios of chloromethyl ethyl ether (CMEE) initiated by OH radicals and the fate of its product radical: an insight from a computational study. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1519-1531.	1.7	3
18	Degradation mechanism of propylene carbonate initiated by hydroxyl radical and fate of its product radicals: A hybrid density functional study. <i>Atmospheric Environment</i> , 2019, 216, 116952.	1.9	3

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19	Atmospheric degradation pathways and kinetics of 2,2-difluoroethanol (CHF <sub>2</sub> CH <sub>2</sub> OH) with Cl atom: A theoretical investigation. <i>Chemical Physics Letters</i> , 2019, 716, 35-41.	1.2	3
20	Ring-opening pathway of 2, 4, 6-trichlorophenol initiated by OH radical: an insight from first principle study. <i>Molecular Physics</i> , 2020, 118, e1779364.	0.8	2
21	Quantum mechanical study on the oxidation of ethyl vinyl ketone initiated by an OH radical. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1708-1715.	1.7	1
22	Mechanism and kinetics of catalytic oxidation of CO to CO <sub>2</sub> over Pt <sup>n+</sup> and MPt <sup>n-1+</sup> , (M=Sn, Rh & Ru; n=3,) <i>J. Phys. Chem. C</i> , 2010, 114, 10000-10006.	1.0	0