Jahur Alam Mondal

List of Publications by Year
in descending order

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46 papers	1,693 citations	304602 22 h-index	276775 41 g-index
46 all docs	46 docs citations	46 times ranked	1754 citing authors

#	Article	IF	Citations
1	Structure and Dynamics of Interfacial Water Studied by Heterodyne-Detected Vibrational Sum-Frequency Generation. Annual Review of Physical Chemistry, 2013, 64, 579-603.	4.8	264
2	Three Distinct Water Structures at a Zwitterionic Lipid/Water Interface Revealed by Heterodyne-Detected Vibrational Sum Frequency Generation. Journal of the American Chemical Society, 2012, 134, 7842-7850.	6.6	250
3	Structure and Orientation of Water at Charged Lipid Monolayer/Water Interfaces Probed by Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of the American Chemical Society, 2010, 132, 10656-10657.	6.6	212
4	Ultrafast Dynamics of the Excited States of Curcumin in Solution. Journal of Physical Chemistry B, 2010, 114, 12129-12143.	1.2	86
5	How Ions Affect the Structure of Water: A Combined Raman Spectroscopy and Multivariate Curve Resolution Study. Journal of Physical Chemistry B, 2013, 117, 16479-16485.	1.2	72
6	Evidence of Multiple Electron Injection and Slow Back Electron Transfer in Alizarin-Sensitized Ultrasmall TiO2 Particles. Journal of Physical Chemistry C, 2009, 113, 3593-3599.	1.5	51
7	Water in the Hydration Shell of Halide Ions Has Significantly Reduced Fermi Resonance and Moderately Enhanced Raman Cross Section in the OH Stretch Regions. Journal of Physical Chemistry B, 2013, 117, 9728-9733.	1.2	47
8	How Osmolyte and Denaturant Affect Water at the Airâ€“Water Interface and in Bulk: A Heterodyne-Detected Vibrational Sum Frequency Generation (HD-VSFG) and Hydration Shell Spectroscopic Study. Journal of Physical Chemistry C, 2016, 120, 10252-10260.	1.5	45
9	Hydrogen-bonding and vibrational coupling of water in a hydrophobic hydration shell as observed by Raman-MCR and isotopic dilution spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 2767-2775.	1.3	39
10	Twisting Dynamics in the Excited Singlet State of Michler's Ketone. Journal of Physical Chemistry A, 2006, 110, 3432-3446.	1.1	38
11	Ultrafast Twisting Dynamics in the Excited State of Auramine. Journal of Physical Chemistry A, 2011, 115, 8183-8196.	1.1	38
12	On the intermolecular vibrational coupling, hydrogen bonding, and librational freedom of water in the hydration shell of mono- and bivalent anions. Journal of Chemical Physics, 2014, 141, 164708.	1.2	36
13	S2 Fluorescence and Ultrafast Relaxation Dynamics of the S2 and S1 States of a Ketocyanine Dye. Journal of Physical Chemistry A, 2005, 109, 6836-6846.	1.1	35
14	Ultrafast Intramolecular Electronic Energy-Transfer Dynamics in a Bichromophoric Moleculeâ€. Journal of Physical Chemistry A, 2004, 108, 7843-7852.	1.1	34
15	Alkyl Chain Length Dependent Structural and Orientational Transformations of Water at Alcoholâ€“Water Interfaces and Its Relevance to Atmospheric Aerosols. Journal of Physical Chemistry Letters, 2017, 8, 1637-1644.	2.1	33
16	Effect of Trimethylamine N-Oxide on Interfacial Electrostatics at Phospholipid Monolayerâ€“Water Interfaces and Its Relevance to Cardiovascular Disease. Journal of Physical Chemistry Letters, 2016, 7, 1704-1708.	2.1	32
17	Excited state dynamics of a pushâ€“pull stilbene: A femtosecond transient absorption spectroscopic study. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 263, 50-60.	2.0	30
18	pH Dependence of Interfacial Water in the Presence of Amino Acid Side Chains Revealed by Heterodyne-Detected Sum-Frequency Generation Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 23596-23603.	1.5	26

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19	The Role of Hydrogenâ€Bonding Interactions in the Ultrafast Relaxation Dynamics of the Excited States of 3â€•and 4â€Aminofluorenâ€9â€•ones. ChemPhysChem, 2009, 10, 2995-3012.	1.0	25
20	Ultrafast Dynamics of the Excited States of the Uranyl Ion in Solutions. Journal of Physical Chemistry A, 2010, 114, 5263-5270.	1.1	25
21	Hydrophobic Hydration of Fluoroalkyl (Câ€“F) is Distinctly Different from That of Its Hydrogenated Counterpart (Câ€“H), as Observed by Raman Difference with Simultaneous Curve Fitting Analysis. Journal of Physical Chemistry C, 2019, 123, 27012-27019.	1.5	25
22	Charge-Transfer-Induced Twisting of the Nitro Group. Journal of Physical Chemistry A, 2007, 111, 6122-6126.	1.1	24
23	Observation of Extremely Weakly Interacting OH (â^¼3600 cm^{â€“1}) in the Vicinity of High Charge Density Metal Ions (M^{z+}; z = 1, 2, 3): A Structural Heterogeneity in the Extended Hydration Shell. Journal of Physical Chemistry C, 2020, 124, 3028-3036.	1.5	21
24	Photoisomerization dynamics of N-1-methyl-2-(tolylazo) imidazole and the effect of complexation with Cu(ii). Physical Chemistry Chemical Physics, 2012, 14, 13027.	1.3	18
25	Restructuring of Hydration Shell Water due to Solvent-Shared Ion Pairing (SSIP): A Case Study of Aqueous MgCl₂ and LaCl₃ Solutions. Journal of Physical Chemistry B, 2020, 124, 8141-8148.	1.2	18
26	Relaxation dynamics in the excited states of a ketocyanine dye probed by femtosecond transient absorption spectroscopy. Journal of Chemical Sciences, 2008, 120, 45-55.	0.7	14
27	Polyatomic Iodine Species at the Airâ€“Water Interface and Its Relevance to Atmospheric Iodine Chemistry: An HD-VSFG and Raman-MCR Study. Journal of Physical Chemistry A, 2019, 123, 2924-2934.	1.1	14
28	Water in the hydration shell of cryoprotectants and their non-cryoprotecting structural analogues as observed by Raman-MCR spectroscopy. Journal of Molecular Liquids, 2018, 266, 118-121.	2.3	13
29	Interaction of Î±â€Synuclein with Phospholipids and the Associated Restructuring of Interfacial Lipid Water: An Interfaceâ€Selective Vibrational Spectroscopic Study. Angewandte Chemie - International Edition, 2020, 59, 22731-22737.	7.2	12
30	Ultrafast Intermolecular Electron Transfer Dynamics:Â Perylene in Electron-Accepting Micellar Medium. Journal of Physical Chemistry B, 2005, 109, 4014-4023.	1.2	11
31	Heterodyne-Detected Vibrational Sum Frequency Generation Study of Airâ€“Waterâ€“Fluoroalcohol Interface: Fluorocarbon Group-Induced Structural and Orientational Change of Interfacial Water. Journal of Physical Chemistry C, 2018, 122, 26928-26933.	1.5	11
32	Kosmotropic Electrolyte (Na₂CO₃, NaF) Perturbs the Air/Water Interface through Anion Hydration Shell without Forming a Well-Defined Electric Double Layer. Journal of Physical Chemistry B, 2021, 125, 3977-3985.	1.2	11
33	Ultrafast Relaxation Dynamics of the Excited States of Michler's Thione. Journal of Physical Chemistry A, 2006, 110, 12103-12112.	1.1	10
34	â€œBreakingâ€•and â€œMakingâ€•of Water Structure at the Air/Waterâ^'Electrolyte (NaXO₃; X = Cl,) Tj ETQq0 0 0 rgBT /C	2.1	10
35	Ultrafast Relaxation Dynamics of the Excited States of 1â€Aminoâ€•and 1â€(N,Nâ€Dimethylamino)â€fluorenâ€9â€•ones. ChemPhysChem, 2009, 10, 2979-2994.	1.0	9
36	On the Behavior of Perfluorinated Persistent Organic Pollutants (POPs) at Environmentally Relevant Aqueous Interfaces: An Interplay of Hydrophobicity and Hydrogen Bonding. Langmuir, 2020, 36, 3720-3729.	1.6	9

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37	Palladium(II)-iodo-{1-alkyl-2-(arylazo)imidazole} complexes: Synthesis, structure, dynamics of photochromism and DFT computation. Polyhedron, 2015, 85, 900-911.	1.0	8
38	Spectroscopic characterization, photochromism and mesomorphism of cadmium(II)-1-alkyl-2-(arylazo)imidazole complexes and DFT correlative studies. Polyhedron, 2016, 117, 463-477.	1.0	8
39	Sorption of Cs and Sr radionuclides within natural carbonates. Journal of Radioanalytical and Nuclear Chemistry, 2017, 312, 19-28.	0.7	8
40	Heterodyne-Detected Sum Frequency Generation Study of Adsorption of I^{â€“} at Model Paintâ€“Water Interface and Its Relevance to Post-Nuclear Accident Scenario. Journal of Physical Chemistry C, 2017, 121, 7993-8001.	1.5	6
41	Metabolite-Affected Interfacial Electrostatics and Its Role in the Pathogenesis of Cardiovascular Disease: An Interface-Selective Vibrational Spectroscopic Study. Journal of Physical Chemistry C, 2016, 120, 21642-21651.	1.5	5
42	Headgroup-Specific Interaction of Biological Lipid Monolayer/Water Interface with Perfluorinated Persistent Organic Pollutant (f-POP): As Observed with Interface-Selective Vibrational Spectroscopy. Journal of Physical Chemistry B, 2022, 126, 563-571.	1.2	5
43	Adsorption of Iodine Species (I₃^{â€“}, I^{â€“}, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 Nuclear Accident Scenario. Journal of Physical Chemistry A, 2020, 124, 6726-6734.	1.1	2
44	Interaction of Î±â€Synuclein with Phospholipids and the Associated Restructuring of Interfacial Lipid Water: An Interfaceâ€Selective Vibrational Spectroscopic Study. Angewandte Chemie, 2020, 132, 22919-22925.	1.6	1
45	Classical- and Heterodyne-Detected Vibrational Sum Frequency Generation (VSFG) Spectroscopy and Its Application to Soft Interfaces. Progress in Optical Science and Photonics, 2021, , 87-115.	0.3	1
46	Interaction of Zwitterionic Osmolyte Trimethylamine N-oxide (TMAO) with Molecular Hydrophobes: An Interplay of Hydrophobic and Electrostatic Interactions. Journal of Physical Chemistry B, 2021, 125, 10939-10946.	1.2	1