Eric Gloaguen

List of Publications by Year
in descending order

56 papers	1,367 citations	304368 22 h-index	344852 36 g-index
58 all docs	58 docs citations	58 times ranked	1251 citing authors

#	Article	IF	Citations
1	Unraveling non-covalent interactions within flexible biomolecules: from electron density topology to gas phase spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 9876.	1.3	156
2	Strength of NHÂ·Â·Â·S Hydrogen Bonds in Methionine Residues Revealed by Gas-Phase IR/UV Spectroscopy. Journal of Physical Chemistry Letters, 2012, 3, 755-759.	2.1	93
3	Gas-Phase Folding of a Two-Residue Model Peptide Chain: On the Importance of an Interplay between Experiment and Theory. Journal of the American Chemical Society, 2010, 132, 11860-11863.	6.6	83
4	Investigating the chemical composition of mixed organicâ€“inorganic particles by â€œsoftâ€•vacuum ultraviolet photoionization: The reaction of ozone with anthracene on sodium chloride particles. International Journal of Mass Spectrometry, 2006, 258, 74-85.	0.7	71
5	Unraveling the Mechanisms of Nonradiative Deactivation in Model Peptides Following Photoexcitation of a Phenylalanine Residue. Journal of the American Chemical Society, 2012, 134, 20340-20351.	6.6	66
6	Isolated Monohydrates of a Model Peptide Chain: Effect of a First Water Molecule on the Secondary Structure of a Capped Phenylalanine. Journal of the American Chemical Society, 2011, 133, 3931-3942.	6.6	65
7	Intramolecular recognition in a jet-cooled short peptide chain: Î³-turn helicity probed by a neighbouring residue. Physical Chemistry Chemical Physics, 2007, 9, 4491.	1.3	52
8	Experimental and Theoretical Investigation of the Aromaticâ^'Aromatic Interaction in Isolated Capped Dipeptides. Journal of Physical Chemistry A, 2010, 114, 2973-2982.	1.1	52
9	Compact Folding of Isolated Fourâ€Residue Neutral Peptide Chains: Hâ€Bonding Patterns and Entropy Effects. ChemPhysChem, 2011, 12, 1889-1899.	1.0	45
10	Isolated Neutral Peptides. Topics in Current Chemistry, 2014, 364, 225-270.	4.0	40
11	Neutral Peptides in the Gas Phase: Conformation and Aggregation Issues. Chemical Reviews, 2020, 120, 12490-12562.	23.0	40
12	Structure of the Indoleâ^'Benzene Dimer Revisited. Journal of Physical Chemistry A, 2011, 115, 9485-9492.	1.1	33
13	Dissociative multiphoton ionization of NO[sub 2] studied by time-resolved imaging. Journal of Chemical Physics, 2004, 121, 7776.	1.2	31
14	Spontaneous Formation of Hydrophobic Domains in Isolated Peptides. Journal of Physical Chemistry B, 2013, 117, 4945-4955.	1.2	31
15	Secondary Structures in Phe-Containing Isolated Dipeptide Chains: Laser Spectroscopy vs Quantum Chemistry. Journal of Physical Chemistry A, 2015, 119, 5932-5941.	1.1	31
16	Intra-residue interactions in proteins: interplay between serine or cysteine side chains and backbone conformations, revealed by laser spectroscopy of isolated model peptides. Physical Chemistry Chemical Physics, 2015, 17, 2169-2178.	1.3	31
17	Experimental Evidence for Ultrafast Electronic Relaxation in Molecules, Mediated by Diffuse States. Journal of the American Chemical Society, 2005, 127, 16529-16534.	6.6	30
18	Intrinsic Folding Proclivities in Cyclic Î²â€Peptide Building Blocks: Configuration and Heteroatom Effects Analyzed by Conformerâ€Selective Spectroscopy and Quantum Chemistry. Chemistry - A European Journal, 2015, 21, 16479-16493.	1.7	29

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19	Non-radiative relaxation of UV photoexcited phenylalanine residues: probing the role of conical intersections by chemical substitution. Physical Chemistry Chemical Physics, 2014, 16, 2285.	1.3	28
20	Direct Spectroscopic Evidence of Hyperconjugation Unveils the Conformational Landscape of Hydrazides. Angewandte Chemie - International Edition, 2014, 53, 13756-13759.	7.2	27
21	Gas phase folding of an (Ala)4 neutral peptide chain: spectroscopic evidence for the formation of a Î²-hairpin H-bonding pattern. Physical Chemistry Chemical Physics, 2009, 11, 11385.	1.3	26
22	Far/Mid-Infrared Signatures of Solventâ€“Solute Interactions in a Microhydrated Model Peptide Chain. Journal of Physical Chemistry Letters, 2012, 3, 3307-3311.	2.1	23
23	Identification of ion pairs in solution by IR spectroscopy: crucial contributions of gas phase data and simulations. Physical Chemistry Chemical Physics, 2019, 21, 12798-12805.	1.3	20
24	Conformation control through concurrent Nâ€“Hâ‹¯S and Nâ€“Hâ‹¯Oî€€ hydrogen bonding and hyperconjugation effects. Chemical Science, 2020, 11, 9191-9197.	3.7	20
25	Local NHâ€“Ï€ interactions involving aromatic residues of proteins: influence of backbone conformation and Ï€Ï€* excitation on the Ï€ H-bond strength, as revealed from studies of isolated model peptides. Physical Chemistry Chemical Physics, 2016, 18, 29969-29978.	1.3	19
26	On the turn-inducing properties of asparagine: the structuring role of the amide side chain, from isolated model peptides to crystallized proteins. Physical Chemistry Chemical Physics, 2018, 20, 3411-3423.	1.3	19
27	Rationalizing the diversity of amideâ€“amide H-bonding in peptides using the natural bond orbital method. Physical Chemistry Chemical Physics, 2019, 21, 24601-24619.	1.3	16
28	Transition State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 1. A Cluster Isolated Chemical Reaction Study. Journal of Physical Chemistry A, 2005, 109, 9494-9498.	1.1	14
29	Nâ€“Hâ‹¯X interactions stabilize intra-residue C5 hydrogen bonded conformations in heterocyclic Î±-amino acid derivatives. Chemical Science, 2021, 12, 14826-14832.	3.7	13
30	On the near UV photophysics of a phenylalanine residue: conformation-dependent Ï€Ï€* state deactivation revealed by laser spectroscopy of isolated neutral dipeptides. Physical Chemistry Chemical Physics, 2014, 16, 22192-22200.	1.3	12
31	Gas-Phase Spectroscopic Signatures of Carboxylateâ€“Li⁺ Contact Ion Pairs: New Benchmarks For Characterizing Ion Pairing in Solution. Journal of Physical Chemistry Letters, 2016, 7, 1192-1197.	2.1	12
32	Unifying the microscopic picture of His-containing turns: from gas phase model peptides to crystallized proteins. Physical Chemistry Chemical Physics, 2017, 19, 17128-17142.	1.3	11
33	Transition State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 2. Experimental and Ab Initio Studies of the Free CaÂ·Â·Â·FCH3Complex. Journal of Physical Chemistry A, 2006, 110, 7355-7363.	1.1	10
34	Gas phase double-resonance IR/UV spectroscopy of an alanine dipeptide analogue using a non-covalently bound UV-tag: observation of a folded peptide conformation in the Ac-Ala-NH2â€“toluene complex. Structural Chemistry, 2016, 27, 225-230.	1.0	10
35	Direct Observation of Microscopic Solvation at the Surface of Clusters by Ultrafast Photoelectron Imaging. Journal of Physical Chemistry A, 2008, 112, 9200-9210.	1.1	9
36	Electronic Stark Effect in Isolated Ion Pairs. Journal of Physical Chemistry Letters, 2019, 10, 7458-7462.	2.1	9

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37	Intrinsic folding of the cysteine residue: competition between folded and extended forms mediated by the â€“SH group. Physical Chemistry Chemical Physics, 2020, 22, 20284-20294.	1.3	9
38	Transition-State Spectroscopy of the Photoinduced Ca + CH3F Reaction. 3. Reaction Following the Local Excitation to Ca(4s3d 1D). Journal of Physical Chemistry A, 2008, 112, 1408-1420.	1.1	8
39	Effective Strategy for Conformer-Selective Detection of Short-Lived Excited State Species: Application to the IR Spectroscopy of the N1H Keto Tautomer of Guanine. Journal of Physical Chemistry A, 2016, 120, 2179-2184.	1.1	8
40	Laser spectroscopic studies of the E1Î£+ `Rydberg' state of the MgO molecule. Chemical Physics Letters, 2004, 392, 62-67.	1.2	7
41	Investigation of Ionâ^'Molecule ReactionsviaFemtosecond Excitation and Ionization of [Tetrakis(dimethylamino)ethylene]nâ‰¥1. Journal of Physical Chemistry A, 2004, 108, 3884-3895.	1.1	6
42	Photofragmentation and electron detachment of aromatic phosphonate, sulfonate and phosphate oxyanions. European Physical Journal D, 2021, 75, 1.	0.6	6
43	Ion Pair Supramolecular Structure Identified by ATRâ€FTIR Spectroscopy and Simulations in Explicit Solvent**. ChemPhysChem, 2021, 22, 2442-2455.	1.0	6
44	CC2 Benchmark for Models of Phenylalanine Protein Chains: 0â€“0 Transition Energies and IR Signatures of the Ï€Ï€* Excited State. Journal of Chemical Theory and Computation, 2020, 16, 601-611.	2.3	5
45	An intraresidue H-bonding motif in selenocysteine and cysteine, revealed by gas phase laser spectroscopy and quantum chemistry calculations. Physical Chemistry Chemical Physics, 2020, 22, 20409-20420.	1.3	5
46	A theoretical and experimental case study of the hydrogen bonding predilection of S-methylcysteine. Amino Acids, 2021, 53, 621-633.	1.2	4
47	Characterization of Asx Turn Types and Their Connate Relationship with Î²â€Turns. Chemistry - A European Journal, 2022, , .	1.7	4
48	Stepwise dissociation of ion pairs by water molecules: cation-dependent separation mechanisms between carboxylate and alkali-earth metal ions. Physical Chemistry Chemical Physics, 2022, 24, 12121-12125.	1.3	4
49	Selenium in Proteins: Conformational Changes Induced by Se Substitution on Methionine, as Studied in Isolated Model Peptides by Optical Spectroscopy and Quantum Chemistry. Molecules, 2022, 27, 3163.	1.7	4
50	Excited States Computation of Models of Phenylalanine Protein Chains: TD-DFT and Composite CC2/TD-DFT Protocols. International Journal of Molecular Sciences, 2022, 23, 621.	1.8	3
51	Reactive and Inelastic Channels in the Ca*Â·Â·Â·FCH3 Transition State: A Simple Branching Mechanism. Journal of Physical Chemistry A, 2015, 119, 6099-6110.	1.1	2
52	Time resolved observation of multiple electronic configurations in the electronic relaxation of isolated molecules by photoelectron imaging. AIP Conference Proceedings, 2005, , .	0.3	1
53	Conformational analysis by UV spectroscopy: the decisive contribution of environment-induced electronic Stark effects. Chemical Science, 2021, 12, 2803-2815.	3.7	1
54	Micro solvation dynamics at the passage of conical intersections observed in argon clusters of excited tetrakis(dimethylamino) ethylene. , 2004, , 29-32.		0

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55	Ultrafast Photoelectron imaging of the electronic relaxation of a molecule deposited at the surface of an argon cluster. , 2006, , 174-182.		0
56	Characterization of Asx Turn Types and Their Connate Relationship with Î²â€Turns. Chemistry - A European Journal, 2022, , e202200969.	1.7	0