

# Eric Gloaguen

## List of Publications by Year in descending order

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56  
papers

1,367  
citations

304368

22  
h-index

344852

36  
g-index

58  
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58  
docs citations

58  
times ranked

1251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Excited States Computation of Models of Phenylalanine Protein Chains: TD-DFT and Composite CC2/TD-DFT Protocols. <i>International Journal of Molecular Sciences</i> , 2022, 23, 621.	1.8	3
2	Characterization of Asx Turn Types and Their Connate Relationship with $\beta$ -Turns. <i>Chemistry - A European Journal</i> , 2022, , .	1.7	4
3	Characterization of Asx Turn Types and Their Connate Relationship with $\beta$ -Turns. <i>Chemistry - A European Journal</i> , 2022, , e202200969.	1.7	0
4	Stepwise dissociation of ion pairs by water molecules: cation-dependent separation mechanisms between carboxylate and alkali-earth metal ions. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12121-12125.	1.3	4
5	Selenium in Proteins: Conformational Changes Induced by Se Substitution on Methionine, as Studied in Isolated Model Peptides by Optical Spectroscopy and Quantum Chemistry. <i>Molecules</i> , 2022, 27, 3163.	1.7	4
6	Conformational analysis by UV spectroscopy: the decisive contribution of environment-induced electronic Stark effects. <i>Chemical Science</i> , 2021, 12, 2803-2815.	3.7	1
7	A theoretical and experimental case study of the hydrogen bonding predilection of S-methylcysteine. <i>Amino Acids</i> , 2021, 53, 621-633.	1.2	4
8	Photofragmentation and electron detachment of aromatic phosphonate, sulfonate and phosphate oxyanions. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	6
9	$\text{N}^{\ominus}\text{H}\cdots\text{X}$ interactions stabilize intra-residue C5 hydrogen bonded conformations in heterocyclic $\beta$ -amino acid derivatives. <i>Chemical Science</i> , 2021, 12, 14826-14832.	3.7	13
10	Ion Pair Supramolecular Structure Identified by ATR-FTIR Spectroscopy and Simulations in Explicit Solvent**. <i>ChemPhysChem</i> , 2021, 22, 2442-2455.	1.0	6
11	CC2 Benchmark for Models of Phenylalanine Protein Chains: $\text{O}^{\ominus}\text{O}$ Transition Energies and IR Signatures of the $\beta$ -Excited State. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 601-611.	2.3	5
12	Conformation control through concurrent $\text{N}^{\ominus}\text{H}\cdots\text{S}$ and $\text{N}^{\ominus}\text{H}\cdots\text{O}^{\ominus}$ hydrogen bonding and hyperconjugation effects. <i>Chemical Science</i> , 2020, 11, 9191-9197.	3.7	20
13	An intraresidue H-bonding motif in selenocysteine and cysteine, revealed by gas phase laser spectroscopy and quantum chemistry calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20409-20420.	1.3	5
14	Intrinsic folding of the cysteine residue: competition between folded and extended forms mediated by the $\beta$ -SH group. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20284-20294.	1.3	9
15	Neutral Peptides in the Gas Phase: Conformation and Aggregation Issues. <i>Chemical Reviews</i> , 2020, 120, 12490-12562.	23.0	40
16	Electronic Stark Effect in Isolated Ion Pairs. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7458-7462.	2.1	9
17	Identification of ion pairs in solution by IR spectroscopy: crucial contributions of gas phase data and simulations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12798-12805.	1.3	20
18	Rationalizing the diversity of amide-amide H-bonding in peptides using the natural bond orbital method. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24601-24619.	1.3	16

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19	On the turn-inducing properties of asparagine: the structuring role of the amide side chain, from isolated model peptides to crystallized proteins. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3411-3423.	1.3	19
20	Unifying the microscopic picture of His-containing turns: from gas phase model peptides to crystallized proteins. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17128-17142.	1.3	11
21	Effective Strategy for Conformer-Selective Detection of Short-Lived Excited State Species: Application to the IR Spectroscopy of the N1H Keto Tautomer of Guanine. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2179-2184.	1.1	8
22	Local NH $\cdots$ N interactions involving aromatic residues of proteins: influence of backbone conformation and $\pi$ - $\pi^*$ excitation on the $\pi$ H-bond strength, as revealed from studies of isolated model peptides. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29969-29978.	1.3	19
23	Gas-Phase Spectroscopic Signatures of Carboxylate <sup>-</sup> Contact Ion Pairs: New Benchmarks For Characterizing Ion Pairing in Solution. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1192-1197.	2.1	12
24	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-NH $_2$ toluene complex. <i>Structural Chemistry</i> , 2016, 27, 225-230.	1.0	10
25	Intrinsic Folding Proclivities in Cyclic $\alpha$ -Peptide Building Blocks: Configuration and Heteroatom Effects Analyzed by Conformer-Selective Spectroscopy and Quantum Chemistry. <i>Chemistry - A European Journal</i> , 2015, 21, 16479-16493.	1.7	29
26	Secondary Structures in Phe-Containing Isolated Dipeptide Chains: Laser Spectroscopy vs Quantum Chemistry. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5932-5941.	1.1	31
27	Reactive and Inelastic Channels in the Ca <sup>+</sup> FCH $_3$ Transition State: A Simple Branching Mechanism. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6099-6110.	1.1	2
28	Intra-residue interactions in proteins: interplay between serine or cysteine side chains and backbone conformations, revealed by laser spectroscopy of isolated model peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2169-2178.	1.3	31
29	Direct Spectroscopic Evidence of Hyperconjugation Unveils the Conformational Landscape of Hydrazides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13756-13759.	7.2	27
30	Isolated Neutral Peptides. <i>Topics in Current Chemistry</i> , 2014, 364, 225-270.	4.0	40
31	Unraveling non-covalent interactions within flexible biomolecules: from electron density topology to gas phase spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9876.	1.3	156
32	On the near UV photophysics of a phenylalanine residue: conformation-dependent $\pi$ - $\pi^*$ state deactivation revealed by laser spectroscopy of isolated neutral dipeptides. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22192-22200.	1.3	12
33	Non-radiative relaxation of UV photoexcited phenylalanine residues: probing the role of conical intersections by chemical substitution. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2285.	1.3	28
34	Spontaneous Formation of Hydrophobic Domains in Isolated Peptides. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4945-4955.	1.2	31
35	Unraveling the Mechanisms of Nonradiative Deactivation in Model Peptides Following Photoexcitation of a Phenylalanine Residue. <i>Journal of the American Chemical Society</i> , 2012, 134, 20340-20351.	6.6	66
36	Far/Mid-Infrared Signatures of Solvent-Solute Interactions in a Microhydrated Model Peptide Chain. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3307-3311.	2.1	23

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37	Strength of NH $\cdots$ S Hydrogen Bonds in Methionine Residues Revealed by Gas-Phase IR/LIV Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 755-759.	2.1	93
38	Structure of the Indole $\cdots$ Benzene Dimer Revisited. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9485-9492.	1.1	33
39	Isolated Monohydrates of a Model Peptide Chain: Effect of a First Water Molecule on the Secondary Structure of a Capped Phenylalanine. <i>Journal of the American Chemical Society</i> , 2011, 133, 3931-3942.	6.6	65
40	Compact Folding of Isolated Four-Residue Neutral Peptide Chains: H-Bonding Patterns and Entropy Effects. <i>ChemPhysChem</i> , 2011, 12, 1889-1899.	1.0	45
41	Gas-Phase Folding of a Two-Residue Model Peptide Chain: On the Importance of an Interplay between Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2010, 132, 11860-11863.	6.6	83
42	Experimental and Theoretical Investigation of the Aromatic $\cdots$ Aromatic Interaction in Isolated Capped Dipeptides. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2973-2982.	1.1	52
43	Gas phase folding of an (Ala) <sub>4</sub> neutral peptide chain: spectroscopic evidence for the formation of a $\beta$ -hairpin H-bonding pattern. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11385.	1.3	26
44	Direct Observation of Microscopic Solvation at the Surface of Clusters by Ultrafast Photoelectron Imaging. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9200-9210.	1.1	9
45	Transition-State Spectroscopy of the Photoinduced Ca + CH <sub>3</sub> F Reaction. 3. Reaction Following the Local Excitation to Ca(4s3d 1D). <i>Journal of Physical Chemistry A</i> , 2008, 112, 1408-1420.	1.1	8
46	Intramolecular recognition in a jet-cooled short peptide chain: $\beta$ -turn helicity probed by a neighbouring residue. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4491.	1.3	52
47	Transition State Spectroscopy of the Photoinduced Ca + CH <sub>3</sub> F Reaction. 2. Experimental and Ab Initio Studies of the Free Ca $\cdots$ FCH <sub>3</sub> Complex. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7355-7363.	1.1	10
48	Investigating the chemical composition of mixed organic $\cdots$ inorganic particles by $\nu$ -vacuum ultraviolet photoionization: The reaction of ozone with anthracene on sodium chloride particles. <i>International Journal of Mass Spectrometry</i> , 2006, 258, 74-85.	0.7	71
49	Ultrafast Photoelectron imaging of the electronic relaxation of a molecule deposited at the surface of an argon cluster. , 2006, , 174-182.		0
50	Time resolved observation of multiple electronic configurations in the electronic relaxation of isolated molecules by photoelectron imaging. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
51	Experimental Evidence for Ultrafast Electronic Relaxation in Molecules, Mediated by Diffuse States. <i>Journal of the American Chemical Society</i> , 2005, 127, 16529-16534.	6.6	30
52	Transition State Spectroscopy of the Photoinduced Ca + CH <sub>3</sub> F Reaction. 1. A Cluster Isolated Chemical Reaction Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9494-9498.	1.1	14
53	Dissociative multiphoton ionization of NO <sub>2</sub> studied by time-resolved imaging. <i>Journal of Chemical Physics</i> , 2004, 121, 7776.	1.2	31
54	Laser spectroscopic studies of the E1 $\pi$ + 'Rydberg' state of the MgO molecule. <i>Chemical Physics Letters</i> , 2004, 392, 62-67.	1.2	7

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55	Investigation of Ion-Molecule Reactions via Femtosecond Excitation and Ionization of [Tetrakis(dimethylamino)ethylene]. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3884-3895.	1.1	6
56	Micro solvation dynamics at the passage of conical intersections observed in argon clusters of excited tetrakis(dimethylamino) ethylene. , 2004, , 29-32.		0