

# Federico Sebastiani

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

455  
citations

759233

12  
h-index

752698

20  
g-index

21  
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21  
docs citations

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times ranked

425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Dynamics from THz Spectroscopy Reveal the Locus of a Liquid-Liquid Binodal Limit in Aqueous CaCO <sub>3</sub> Solutions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 490-495.	13.8	101
2	Ion Hydration and Ion Pairing as Probed by THz Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3000-3013.	13.8	92
3	Molecular Fingerprints of Hydrophobicity at Aqueous Interfaces from Theory and Vibrational Spectroscopies. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3827-3836.	4.6	34
4	Spectroscopic fingerprints in the low frequency spectrum of ice (Ih), clathrate hydrates, supercooled water, and hydrophobic hydration reveal similarities in the hydrogen bond network motifs. <i>Journal of Chemical Physics</i> , 2019, 150, 224505.	3.0	25
5	An isolated water droplet in the aqueous solution of a supramolecular tetrahedral cage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32954-32961.	7.1	24
6	Hydrophilic Solvation Dominates the Terahertz Fingerprint of Amino Acids in Water. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1453-1459.	2.6	20
7	Strong Anisotropy in Liquid Water upon Librational Excitation Using Terahertz Laser Fields. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4989-5001.	2.6	20
8	Stripping away ion hydration shells in electrical double-layer formation: Water networks matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
9	Spectroscopic Fingerprints of Cavity Formation and Solute Insertion as a Measure of Hydration Entropic Loss and Enthalpic Gain. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	20
10	Probing Local Electrostatics of Glycine in Aqueous Solution by THz Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3768-3772.	13.8	19
11	Cooperativity and ion pairing in magnesium sulfate aqueous solutions from the dilute regime to the solubility limit. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12140-12153.	2.8	18
12	THz-Spektroskopie erlaubt Rückschlüsse auf die Wasserdynamik und die Lage einer flüssig-flüssig-Binodalen Grenze in wässrigen CaCO <sub>3</sub> -Lösungen. <i>Angewandte Chemie</i> , 2017, 129, 504-509.	13.8	15
13	Reaction intermediate rotation during the decarboxylation of coproheme to heme b in <i>C. diphtheriae</i> . <i>Biophysical Journal</i> , 2021, 120, 3600-3614.	0.5	12
14	An active site at work – the role of key residues in <i>C. diphtheriae</i> coproheme decarboxylase. <i>Journal of Inorganic Biochemistry</i> , 2022, 229, 111718.	3.5	9
15	Untersuchung von Ionenhydratation und Ionenpaarbildung mittels THz-Spektroskopie. <i>Angewandte Chemie</i> , 2019, 131, 3030-3044.	2.0	7
16	Urea's match in the hydrogen-bond network? A high pressure THz study. <i>Biophysical Chemistry</i> , 2019, 254, 106240.	2.8	5
17	Spectroscopic evidence of the effect of hydrogen peroxide excess on the coproheme decarboxylase from actinobacterial <i>Corynebacterium diphtheriae</i> . <i>Journal of Raman Spectroscopy</i> , 0, .	2.5	4
18	Does hydrated glycine act as solidification nucleus at multi-kilobar conditions?. <i>Biophysical Chemistry</i> , 2019, 253, 106215.	2.8	3

#	ARTICLE	IF	CITATIONS
19	Probing Local Electrostatics of Glycine in Aqueous Solution by THz Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 3812-3816.	2.0	3
20	Aqueous TMAO solution under high hydrostatic pressure. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11355-11365.	2.8	3
21	Spectroscopic Fingerprints of Cavity Formation and Solute Insertion as a Measure of Hydration Entropic Loss and Enthalpic Gain. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1