

Erik T J Nibbering

List of Publications by Year in descending order

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39
papers

3,188
citations

304743

22
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

3234
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Vibrational Dynamics of Hydrogen Bonds in the Condensed Phase. <i>Chemical Reviews</i> , 2004, 104, 1887-1914.	47.7	559
2	Sequential Proton Transfer Through Water Bridges in Acid-Base Reactions. <i>Science</i> , 2005, 310, 83-86.	12.6	480
3	Real-Time Observation of Bimodal Proton Transfer in Acid-Base Pairs in Water. <i>Science</i> , 2003, 301, 349-352.	12.6	408
4	Real-Time Observation of Carbonic Acid Formation in Aqueous Solution. <i>Science</i> , 2009, 326, 1690-1694.	12.6	255
5	Base-Induced Solvent Switches in Acid-Base Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1458-1461.	13.8	197
6	Ultrafast Structural Dynamics of Water Induced by Dissipation of Vibrational Energy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 743-746.	2.5	195
7	Large-amplitude transfer motion of hydrated excess protons mapped by ultrafast 2D IR spectroscopy. <i>Science</i> , 2017, 357, 491-495.	12.6	129
8	A liquid flatjet system for solution phase soft-x-ray spectroscopy. <i>Structural Dynamics</i> , 2015, 2, 054301.	2.3	99
9	Solvent-Dependent Photoacidity State of Pyranine Monitored by Transient Mid-Infrared Spectroscopy. <i>ChemPhysChem</i> , 2005, 6, 625-636.	2.1	94
10	Femtosecond mid-infrared spectroscopy of condensed phase hydrogen-bonded systems as a probe of structural dynamics. <i>Faraday Discussions</i> , 2003, 122, 27-40.	3.2	87
11	The Hydrated Excess Proton in the Zundel Cation H_5O_2^+ : The Role of Ultrafast Solvent Fluctuations. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10600-10605.	13.8	73
12	Ultrafast Excited-State Proton-Transfer Reaction of 1-Naphthol-3,6-Disulfonate and Several 5-Substituted 1-Naphthol Derivatives. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4594-4603.	2.6	72
13	Soft X-ray Absorption Spectroscopy of Aqueous Solutions Using a Table-Top Femtosecond Soft X-ray Source. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 52-58.	4.6	66
14	Aqueous Solvation of Ammonia and Ammonium: Probing Hydrogen Bond Motifs with FT-IR and Soft X-ray Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 12773-12783.	13.7	65
15	Real-Time Observation of the Formation of Excited Radical Ions in Bimolecular Photoinduced Charge Separation: Absence of the Marcus Inverted Region Explained. <i>Journal of the American Chemical Society</i> , 2013, 135, 9843-9848.	13.7	56
16	Direct Determination of Absolute Absorption Cross Sections at the L-Edge of Dilute Mn Complexes in Solution Using a Transmission Flatjet. <i>Inorganic Chemistry</i> , 2018, 57, 5449-5462.	4.0	32
17	Cation-Enhanced Deprotonation of Water by a Strong Photobase. <i>Israel Journal of Chemistry</i> , 2009, 49, 261-272.	2.3	29
18	Ultrafast Vibrational Frequency Shifts Induced by Electronic Excitations: Naphthols in Low Dielectric Media. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2775-2790.	2.5	29

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19	Hydrated Excess Protons in Acetonitrile/Water Mixtures: Solvation Species and Ultrafast Proton Motions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2287-2294.	4.6	27
20	Correlating Photoacidity to Hydrogen-Bond Structure by Using the Local O-H Stretching Probe in Hydrogen-Bonded Complexes of Aromatic Alcohols. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4800-4812.	2.5	26
21	Ultrafast Proton Transport between a Hydroxy Acid and a Nitrogen Base along Solvent Bridges Governed by the Hydroxide/Methoxide Transfer Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 14581-14592.	13.7	26
22	Ultrafast Solvent-Assisted Electronic Level Crossing in 1-Naphthol. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6871-6875.	13.8	24
23	Soft X-ray Spectroscopy of the Amine Group: Hydrogen Bond Motifs in Alkylamine/Alkylammonium Acid-Base Pairs. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7737-7746.	2.6	22
24	Competition between excited state proton and OH transport via a short water wire: solvent effects open the gate. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13047-13051.	2.8	21
25	Ultrafast Forward and Backward Electron Transfer Dynamics of Coumarin 337 in Hydrogen-Bonded Anilines As Studied with Femtosecond UV-Pump/IR-Probe Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 664-670.	2.5	19
26	Cr L-Edge X-ray Absorption Spectroscopy of Cr(III)(acac) ₃ in Solution with Measured and Calculated Absolute Absorption Cross Sections. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7375-7384.	2.6	18
27	Combined Experimental and Theoretical Study of the Transient IR Spectroscopy of 7-Hydroxyquinoline in the First Electronically Excited Singlet State. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9378-9389.	2.5	17
28	Correlating Infrared and X-ray Absorption Energies for Molecular-Level Insight into Hydrogen Bond Making and Breaking in Solution. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8115-8124.	2.6	11
29	Regioselective Ultrafast Photoinduced Electron Transfer from Naphthols to Halocarbon Solvents. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2657-2662.	4.6	10
30	Switching between Proton Vacancy and Excess Proton Transfer Pathways in the Reaction between 7-Hydroxyquinoline and Formate. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1845-1859.	2.5	10
31	Highly efficient soft x-ray spectrometer for transient absorption spectroscopy with broadband table-top high harmonic sources. <i>Structural Dynamics</i> , 2021, 8, 034302.	2.3	9
32	Shot noise limited soft x-ray absorption spectroscopy in solution at a SASE-FEL using a transmission grating beam splitter. <i>Structural Dynamics</i> , 2021, 8, 014303.	2.3	7
33	Electronic Structure Changes of an Aromatic Amine Photoacid along the Förster Cycle. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	6
34	Vibronic Dynamics of Photodissociating ICN from Simulations of Ultrafast X-ray Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20044-20048.	13.8	5
35	Vibronic Dynamics of Photodissociating ICN from Simulations of Ultrafast X-ray Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 20219-20223.	2.0	3
36	Switching Between Ultrafast Proton Vacancy and Excess Proton Transfer along a Methanol Solvent Bridge., 2020, , .		0

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37	Deciphering Photoacidity by Following Electronic Charge Distribution Changes along the Photoacid First Cycle with Time-Resolved Nitrogen K-Edge X-Ray Absorption Spectroscopy. , 2020, , .		0
38	Electronic Structure Changes of an Aromatic Amine Photoacid along the First Cycle. Angewandte Chemie, 0, , .	2.0	0
39	Innentitelbild: Änderungen der elektronischen Struktur einer Amino-Photosäure entlang des First Zyklus (Angew. Chem. 27/2022). Angewandte Chemie, 2022, 134, .	2.0	0