## Karl-Michael Weitzel

## List of Publications by Year in descending order

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Version: 2024-02-01

92 papers 1,408 citations

20 h-index 414414 32 g-index

94 all docs 94 docs citations

times ranked

94

877 citing authors

#	Article	IF	CITATIONS
1	The ionic conductivity of alkali aluminum germanium phosphate glasses– comparison of Plasma CAIT with two electrode DC measurements. Zeitschrift Fur Physikalische Chemie, 2022, 236, 1001-1012.	2.8	2
2	The Potential Energy Profile of the HBr <sup>+</sup> + HCl Bimolecular Collision. Journal of Physical Chemistry A, 2022, 126, 1465-1474.	2.5	4
3	Coincident measurement of photo-ion circular dichroism and photo-electron circular dichroism in 1-phenylethylamine. Physical Chemistry Chemical Physics, 2022, 24, 15904-15911.	2.8	5
4	Photoelectron Circular Dichroism of Electrosprayed Gramicidin Anions. Journal of Physical Chemistry Letters, 2022, 13, 6110-6116.	4.6	8
5	(Invited) Charge Attachment–Induced Transport: Toward New Paradigms in Solid State Electrochemistry. ECS Meeting Abstracts, 2022, MA2022-01, 1147-1147.	0.0	O
6	Plasma Charge Carrier Attachment Induced Transport in Solid Ionic Materials. ECS Meeting Abstracts, 2022, MA2022-01, 1057-1057.	0.0	0
7	On the disintegration of copper electrodes and the transport of Cu+ ions in a sodium potassium borosilicate glass. Solid State Ionics, 2021, 359, 115533.	2.7	O
8	Li <sup>+</sup> Ion Site Energy Distribution in Lithium Aluminum Germanium Phosphate. Journal of Physical Chemistry C, 2021, 125, 4977-4985.	3.1	3
9	A chemical dynamics study of the HClÂ+ HCl+ reaction. International Journal of Mass Spectrometry, 2021, 462, 116515.	1.5	7
10	Photoelektronenâ€Zirkulardichroismus im Photodetachment von AminosÃurenâ€Anionen. Angewandte Chemie, 2021, 133, 18005-18009.	2.0	2
11	Photoelectron Circular Dichroism in the Photodetachment of Amino Acid Anions. Angewandte Chemie - International Edition, 2021, 60, 17861-17865.	13.8	21
12	Combined measurement of electronic and ionic work functions, $w(e\hat{a}^{"})$ and $w(Li+)$ , for lithium phosphate. Journal of Applied Physics, 2020, 128, .	2.5	0
13	Proton and deuteron electrodiffusion in a D263T borosilicate glass by controlled charge attachment from a fs-plasma. Solid State Ionics, 2020, 357, 115469.	2.7	4
14	Theoretical Study of the Dynamics of the HBr <sup>+</sup> + CO <sub>2</sub> â†' HOCO <sup>+</sup> + Br Reaction. Journal of Physical Chemistry A, 2020, 124, 9119-9127.	2.5	10
15	The role of dielectric breakdown in the electro-thermal poling of D263T glass. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1422-1427.	2.9	2
16	Coincident measurement of photo-ion circular dichroism and photo-electron circular dichroism. Physical Chemistry Chemical Physics, 2020, 22, 13707-13712.	2.8	16
17	Pathways for Alkali Ion Transport in Mold Compounds. ECS Journal of Solid State Science and Technology, 2020, 9, 053001.	1.8	2
18	Qualitative and Quantitative Distinction of <i>ortho</i> -, <i>meta</i> -, and <i>para</i> -Fluorotoluene by Means of Chirped Femtosecond Laser Ionization. Analytical Chemistry, 2020, 92, 5492-5499.	6.5	13

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19	Ion Selective Transport of Alkali Ions through a Polyelectrolyte Membrane. Advanced Materials Interfaces, 2020, 7, 2000419.	3.7	2
20	Self-Reactions in the HBr+ (DBr+) + HBr System: A State-Selective Investigation of the Role of Rotation. Journal of Physical Chemistry A, 2020, 124, 8461-8468.	2.5	3
21	Electron attachment induced ion transport â€" Part I: Conductivities and activation energies. Solid State Ionics, 2019, 339, 114996.	2.7	6
22	Electron attachment induced ion transport – Part II: The evolution of blocking of charge transport. Solid State Ionics, 2019, 339, 114997.	2.7	3
23	Site energy distribution of sodium ions in a sodium rubidium borate glass. Physical Chemistry Chemical Physics, 2019, 21, 26251-26261.	2.8	10
24	Experimental Studies on Work Functions of Li <sup>+</sup> lons and Electrons in the Battery Electrode Material LiCoO <sub>2</sub> : A Thermodynamic Cycle Combining Ionic and Electronic Structure. Advanced Energy Materials, 2018, 8, 1703411.	19.5	28
25	Distinction of Structural Isomers of Benzenediamin and Difluorobenzene by Means of Chirped Femtosecond Laser Ionization Mass Spectrometry. Zeitschrift Fur Physikalische Chemie, 2018, 232, 689-703.	2.8	9
26	The Fluoroperovskite TlMnF <sub>3</sub> . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1557-1561.	1.2	1
27	Lithium-Ion Batteries: Experimental Studies on Work Functions of Li+ Ions and Electrons in the Battery Electrode Material LiCoO2 : A Thermodynamic Cycle Combining Ionic and Electronic Structure (Adv.) Tj ETQq1 1	0. <b>78</b> . <del>4</del> 314	rgBT /Over
28	Remote access to electrical conductivity by charge attachment from an ambient pressure plasma. Applied Physics Letters, 2018, 113, .	3.3	6
29	Demonstration of the conductive species in "Li-free―solid solvent doped with LiBH4 and its Li+ dominating conduction mechanism. Electrochimica Acta, 2018, 283, 1188-1194.	5.2	7
30	Electrodiffusion versus Chemical Diffusion in Alkali Calcium Phosphate Glasses: Implication of Structural Changes. Journal of Physical Chemistry C, 2017, 121, 3203-3211.	3.1	8
31	Charge attachment induced transport – bulk and grain boundary diffusion of potassium in PrMnO <sub>3</sub> . Physical Chemistry Chemical Physics, 2017, 19, 9762-9769.	2.8	13
32	The work function for Li+-ion emission from spodumene: A complete characterization of thermionic emission. Journal of Applied Physics, 2016, 120, .	2.5	9
33	Competing K+- and Ca++-ion transport in calcium-potassium-phosphate-glasses. Journal of Non-Crystalline Solids, 2016, 452, 231-237.	3.1	6
34	Transport of ions in a mixed Na+/K+ ion conducting glass - electrodiffusion profiles and electrochemical interphase formation. Electrochimica Acta, 2016, 191, 616-623.	5.2	18
35	Bombardment induced ion transport – part IV: ionic conductivity of ultra-thin polyelectrolyte multilayer films. Physical Chemistry Chemical Physics, 2016, 18, 4345-4351.	2.8	12
36	Self-reactions in the HCl <sup>+</sup> (DCl <sup>+</sup> ) + HCl system: a state-selective investigation of the role of rotation. Physical Chemistry Chemical Physics, 2015, 17, 16454-16461.	2.8	6

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37	Highways for ions in polymers - 3D–imaging of electrochemical interphase formation. Electrochimica Acta, 2015, 170, 122-130.	5.2	5
38	Photoionization Yields in Intense fs-Laser Fields – A Systematic Investigation of Chirp Effects. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1729-1746.	2.8	6
39	Effect of structure and composition on the DC-conductivity in calcium phosphate glasses of the type x CaOâ< (55â^'x) M2Oâ< 45 P2O5 (M=Na, K, Rb, Cs). Journal of Non-Crystalline Solids, 2015, 430, 73-78.	3.1	10
40	Hydrogen Migration in Intense Laser Fields: Analysis and Control in Concert. Springer Series in Chemical Physics, 2015, , 1-21.	0.2	2
41	Bombardment Induced Transport of Rb+ through a K+ Conducting Glass vs. K+ Transport through a Rb+ Conducting Glass. Zeitschrift Fur Physikalische Chemie, 2014, 228, 609-627.	2.8	13
42	Special Issue Commemorating the Paper "The Diffraction of X-rays by Crystals―by William Lawrence Bragg (ZPC, 104, 337–348 (1923); Nobel Lecture, September 6, 1922). Zeitschrift Fur Physikalische Chemie, 2014, 228, 953-956.	2.8	0
43	Formation of fragment ions (H+, H3+, CH3+) from ethane in intense femtosecond laser fields – from understanding to control. Faraday Discussions, 2013, 163, 461.	3.2	28
44	Low energy bombardment induced cesium ion transport through a sodium ion conductor: Concentration profiles and diffusion coefficients. Solid State Ionics, 2013, 242, 20-25.	2.7	5
45	lon Transport Through Polyelectrolyte Multilayers. Macromolecular Rapid Communications, 2013, 34, 1820-1826.	3.9	9
46	Bombardment Induced Potassium Ion Transport Through a Sodium Ion Conductor: Conductivities and Diffusion Profiles. Zeitschrift Fur Physikalische Chemie, 2012, 226, 341-353.	2.8	23
47	Potassium ion transport through poly-para-xylylene films. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1167-1174.	2.9	4
48	Analysis of Chirality by Femtosecond Laser Ionization Mass Spectrometry. Chirality, 2012, 24, 684-690.	2.6	39
49	Bombardment induced ion transportâ€"Part II. Experimental potassium ion conductivities in borosilicate glass. Physical Chemistry Chemical Physics, 2011, 13, 20123.	2.8	32
50	Circular dichroism in ion yields employing femtosecond laser ionizationâ€"the role of laser pulse duration. Physical Chemistry Chemical Physics, 2011, 13, 2378-2386.	2.8	31
51	Femtosecond interferometry of molecular dynamics – the role of relative and absolute phase of two individual laser pulses. Zeitschrift Fur Physikalische Chemie, 2011, 225, 1073-1088.	2.8	1
52	Circular Dichroism in Ion Yields in Multiphoton Ionization of (R)-Propylene Oxide Employing Femtosecond Laser Pulses. Zeitschrift Fur Physikalische Chemie, 2011, 225, 587-594.	2.8	15
53	Bondâ€dissociation energies of cationsâ€"Pushing the limits to quantum state resolution. Mass Spectrometry Reviews, 2011, 30, 221-235.	5.4	12
54	Unusual mechanism for H3+ formation from ethane as obtained by femtosecond laser pulse ionization and quantum chemical calculations. Journal of Chemical Physics, 2011, 134, 114302.	3.0	51

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55	Rotational dependence of the proton-transfer reaction HBr+ + CO2 â†' HOCO+ + Br. II. Comparison of HBr+ (2Î3/2) and HBr+ (2Î1/2). Journal of Chemical Physics, 2010, 133, 234301.	3.0	13
56	Control of competing dissociation channels by femtosecond interferometry: Aspects of electron and nuclear dynamics. Chemical Physics Letters, 2010, 487, 209-213.	2.6	3
57	Field effects in alkali ion emitters: Transition from Langmuir–Child to Schottky regime. Journal of Applied Physics, 2010, 107, .	2.5	19
58	Rotational dependence of the proton-transfer reaction HBr++CO2â†'HOCO++Br. I. Energy versus angular momentum effects. Journal of Chemical Physics, 2010, 132, 174305.	3.0	18
59	Time-correlated transport of potassium ions through a thin poly-p-xylylene membrane. Journal Physics D: Applied Physics, 2010, 43, 025501.	2.8	5
60	Circular Dichroism in Ion Yields of Femtosecond‣aser Mass Spectrometry. ChemPhysChem, 2009, 10, 1199-1202.	2.1	45
61	Transport of Caesium ions through thin poly-p-xylylene films. Thin Solid Films, 2009, 517, 4583-4586.	1.8	6
62	Reactive scattering of NH3+ (v, J) ions at film covered indium tin oxide (ITO) surfaces. International Journal of Mass Spectrometry, 2008, 277, 245-250.	1.5	5
63	Controlling the Electrons Provides Means for Controlling Chemistry. ChemPhysChem, 2007, 8, 213-215.	2.1	13
64	Distinction of <i>ortho</i> ―and <i>para</i> â€Xylene by Femtosecondâ€Laser Mass Spectrometry. ChemPhysChem, 2007, 8, 2185-2188.	2.1	13
65	Laser pulse control of photofragmentation in DCl+: The effect of carrier envelope phase. Chemical Physics, 2007, 338, 277-284.	1.9	10
66	Control of Branching Ratios in the Dissociative Ionization of Deuterium Chloride. Journal of Physical Chemistry A, 2006, 110, 6395-6398.	2.5	16
67	Formation of C7H7+ ions from ethylbenzene and o-xylene ions: Fragmentation versus isomerization. International Journal of Mass Spectrometry, 2006, 252, 189-196.	1.5	17
68	On the control of product yields in the photofragmentation of deuteriumchlorid ions (DCl+). Journal of Chemical Physics, 2005, 123, 164308.	3.0	17
69	The resonance enhanced multiphoton ionisation spectroscopy of ammonia isotopomers NH3, NH2D, NHD2 and ND3. Physical Chemistry Chemical Physics, 2005, 7, 1527.	2.8	18
70	Two-Photon Dissociation Spectroscopy of State-Selected HCl+ and DCl+ Ions. ChemPhysChem, 2004, 5, 1507-1512.	2.1	3
71	State-Selective Predissociation Spectroscopy of HCl+and DCl+lonsâ€. Journal of Physical Chemistry A, 2004, 108, 9924-9930.	2.5	23
72	Rotational State Distribution of HBr+ Ions Formed by Resonance Enhanced Multiphoton Ionization. Zeitschrift Fur Physikalische Chemie, 2004, 218, 311-326.	2.8	15

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73	The Kinetics of Methyl Loss from Ethylbenzene and Xylene Ions: The Tropylium versus Benzylium Story Revisitedâ€. Journal of Physical Chemistry A, 2003, 107, 10625-10630.	2.5	30
74	A new route to the dissociation energy of ionic and neutral HCl via lineshape analysis of single rotational transitions. Physical Chemistry Chemical Physics, 2002, 4, 4083-4086.	2.8	24
75	The binding energies of small Ar, CO and N2 cluster ions. International Journal of Mass Spectrometry, 2002, 214, 175-212.	1.5	30
76	Unimolecular and bimolecular reactions of state selected HCl+ ions formed via the R(1) pump line of the f $3\hat{1}^{2}$ 2 $\hat{1}$ 1£+ REMPI spectrum. Physical Chemistry Chemical Physics, 2001, 3, 2253-2257.	2.8	14
77	Ion–Molecule Reactions of State Selected HCl+ Ions with Carbon Dioxide and Ethene. Zeitschrift Fur Physikalische Chemie, 2001, 215, .	2.8	5
78	Observation of Accurate Ion Dissociation Thresholds in Pulsed Field Ionization-Photoelectron Studies. Physical Review Letters, 2001, 86, 3526-3529.	7.8	38
79	High-resolution pulsed field ionization photoelectron–photoion coincidence study of CH4: Accurate O K dissociation threshold for CH3+. Journal of Chemical Physics, 1999, 111, 8267-8270.	3.0	82
80	High-resolution pulsed field ionization photoelectron-photoion coincidence spectroscopy using synchrotron radiation. Review of Scientific Instruments, 1999, 70, 3892-3906.	1.3	77
81	State selective predissociation spectroscopy of hydrogen chloride ions (HCl <sup>+</sup> ) via the A <sup>2</sup> Σ <sup>+</sup> ↕X <sup>2</sup> Îcsub>3/2 transition. Molecular Physics, 1999, 97, 43-52.	1.7	15
82	High-resolution pulsed field ionization photoelectron-photoion coincidence study of C2H2: Accurate 0 K dissociation threshold for C2H+. Physical Chemistry Chemical Physics, 1999, 1, 5259-5262.	2.8	42
83	Ab initio study of the equilibrium conformation of the ArCO+ ion. Chemical Physics, 1998, 237, 43-49.	1.9	3
84	State Selective Predissociation Spectroscopy of Hydrogen Bromide Ions (HBr+) via the 2Σ+ ↕2Îi(i=1/2, 3/2) Transition. Journal of Physical Chemistry A, 1998, 102, 1927-1934.	2.5	34
85	The formation of ArCO+ ions by dissociative ionization of argon/carbonmonoxide clusters. Journal of Chemical Physics, 1997, 107, 6667-6676.	3.0	9
86	The distinction of direct and pulsed-field ionized zero kinetic energy photoelectrons in electron/ion coincidence experiments. Chemical Physics Letters, 1996, 251, 295-300.	2.6	20
87	ZEKE-PEPICO investigations of dissociation energies in ionic reactions. Chemical Physics Letters, 1994, 224, 371-380.	2.6	41
88	The Determination of the Transition State Structure from the J Dependence of the Dissociation Energy E <sub>0</sub> (J): The Methane and Ethane Ion Dissociation. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1993, 97, 134-139.	0.9	28
89	Photoelectron Photoion Coincidence Studies of Ion Dissociation Dynamics., 1991,, 259-296.		42
90	Shifts in photoionization fragmentation onsets. A direct measure of cooling in a supersonic molecular beam. Chemical Physics, 1991, 150, 263-273.	1.9	50

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91	On the distinction between tight and loose transition states in unimolecular dissociations. Chemical Physics Letters, 1991, 186, 490-494.	2.6	14
92	Threshold photoelectron photoion coincidence study of the ethane loss from energy selected pentane ions cooled in a supersonic expansion. International Journal of Mass Spectrometry and Ion Processes, 1991, 107, 301-317.	1.8	18