Sven Heiles

List of Publications by Year
in descending order

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46	1,901	377584 21	312153 41
papers	citations	h-index	g-index

50	50	50	2560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Venom Gland Mass Spectrometry Imaging of Saw-Scaled Viper, Echis carinatus sochureki, at High Lateral Resolution. Journal of the American Society for Mass Spectrometry, 2021, 32, 1105-1115.	1.2	6
2	Advanced tandem mass spectrometry in metabolomics and lipidomicsâ€”methods and applications. Analytical and Bioanalytical Chemistry, 2021, 413, 5927-5948.	1.9	61
3	Influence of protein ion charge state on 213 nm top-down UVPD. Analyst, The, 2021, 146, 3977-3987.	1.7	11
4	Implementation of a High-Repetition-Rate Laser in an AP-SMALDI MSI System for Enhanced Measurement Performance. Journal of the American Society for Mass Spectrometry, 2021, 32, 465-472.	1.2	15
5	IRMPD Spectroscopy of [PC (4:0/4:0) + M]⁺ (M = H, Na, K) and Corresponding CID Fragment Ions. Journal of the American Society for Mass Spectrometry, 2021, 32, 2874-2884.	1.2	9
6	Atmospheric-Pressure MALDI Mass Spectrometry Imaging at 213 nm Laser Wavelength. Journal of the American Society for Mass Spectrometry, 2020, 31, 326-335.	1.2	11
7	Impact of Aliovalent/Isovalent Ions (Gd, Zr, Pr, and Tb) on the Catalytic Stability of Mesoporous Ceria in the HCl Oxidation Reaction. ACS Applied Nano Materials, 2020, 3, 7406-7419.	2.4	9
8	Multifunctional Reactive MALDI Matrix Enabling High-Lateral Resolution Dual Polarity MS Imaging and Lipid Câ•€ Position-Resolved MS² Imaging. Analytical Chemistry, 2020, 92, 14130-14138.	3.2	44
9	Investigating Cî€€ positions and hydroxylation sites in lipids using PaternÃ²â€“BÃ¼chi functionalization mass spectrometry. Analyst, The, 2020, 145, 2256-2266.	1.7	21
10	Reactive Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging Using an Intrinsically Photoreactive PaternÃ²â€“BÃ¼chi Matrix for Double-Bond Localization in Isomeric Phospholipids. Journal of the American Chemical Society, 2019, 141, 11816-11820.	6.6	112
11	Industrial Riboflavin Fermentation Broths Represent a Diverse Source of Natural Saturated and Unsaturated Lactones. Journal of Agricultural and Food Chemistry, 2019, 67, 13460-13469.	2.4	10
12	Metabolic Imaging at the Single-Cell Scale: Recent Advances in Mass Spectrometry Imaging. Annual Review of Analytical Chemistry, 2019, 12, 201-224.	2.8	131
13	Olefinic reagents tested for peptide derivatization with switchable properties: Stable upon collision induced dissociation and cleavable by inâ€source PaternÃ²â€BÃ¼chi reactions. Journal of Mass Spectrometry, 2019, 54, 976-986.	0.7	1
14	Trendbericht: Analytische Chemie 2016/2017. Nachrichten Aus Der Chemie, 2018, 66, 389-399.	0.0	0
15	Effects of wavelength, fluence, and dose on fragmentation pathways and photoproduct ion yield in 213â€‰nm and 266â€‰nm ultraviolet photodissociation experiments. European Journal of Mass Spectrometry, 2018, 24, 54-65.	0.5	7
16	Relative Quantification of Phosphatidylcholine sn-Isomers Using Positive Doubly Charged Lipidâ€“Metal Ion Complexes. Analytical Chemistry, 2018, 90, 11486-11494.	3.2	37
17	Competition between salt bridge and non-zwitterionic structures in deprotonated amino acid dimers. Physical Chemistry Chemical Physics, 2018, 20, 15641-15652.	1.3	10
18	Analysis of ketone-based neurosteroids by reactive low temperature plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2018, 32, 1439-1450.	0.7	4

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19	Charging and Charge Switching of Unsaturated Lipids and Apolar Compounds Using PaternÃ²-BÃ¼chi Reactions. Journal of the American Society for Mass Spectrometry, 2018, 29, 1971-1980.	1.2	52
20	Sequential water molecule binding enthalpies for aqueous nanodrops containing a mono-, di- or trivalent ion and between 20 and 500 water molecules. Chemical Science, 2017, 8, 2973-2982.	3.7	12
21	Autofocusing MALDI mass spectrometry imaging of tissue sections and 3D chemical topography of nonflat surfaces. Nature Methods, 2017, 14, 1156-1158.	9.0	114
22	Atmospheric pressure MALDI mass spectrometry imaging of tissues and cells at 1.4-Î¼m lateral resolution. Nature Methods, 2017, 14, 90-96.	9.0	424
23	Selective phosphatidylcholine double bond fragmentation and localisation using PaternÃ²â€“BÃ¼chi reactions and ultraviolet photodissociation. Analyst, The, 2017, 142, 4744-4755.	1.7	41
24	Cï£¿H Bond Arylation of Diamondoids Catalyzed by Palladium(II) Acetate. Advanced Synthesis and Catalysis, 2016, 358, 2163-2171.	2.1	21
25	Role of Water in Stabilizing Ferricyanide Trianion and Ion-Induced Effects to the Hydrogen-Bonding Water Network at Long Distance. Journal of the American Chemical Society, 2015, 137, 1650-1657.	6.6	23
26	Effects of electronic structure on the hydration of PbNO3+ and SrNO3+ ion pairs. Physical Chemistry Chemical Physics, 2015, 17, 15963-15975.	1.3	4
27	Hydrogen bond mediated stabilization of the salt bridge structure for the glycine dimer anion. Physical Chemistry Chemical Physics, 2015, 17, 30642-30647.	1.3	14
28	Hydration of guanidinium depends on its local environment. Chemical Science, 2015, 6, 3420-3429.	3.7	24
29	Pd_nAg_(4â^'n) and Pd_nPt_(4â^'n) clusters on MgO (100): a density functional surface genetic algorithm investigation. Nanoscale, 2014, 6, 11777-11788.	2.8	35
30	Hydration of Guanidinium: Second Shell Formation at Small Cluster Size. Journal of Physical Chemistry A, 2014, 118, 5657-5666.	1.1	21
31	Dielectric Properties of Isolated Clusters. Springer Briefs in Molecular Science, 2014, , .	0.1	30
32	Molecular Beam Electric Field Deflection: Theoretical Description. Springer Briefs in Molecular Science, 2014, , 17-59.	0.1	1
33	Molecular Beam Electric Field Deflection: Experimental Considerations. Springer Briefs in Molecular Science, 2014, , 7-16.	0.1	0
34	Novel Experimental Tools. Springer Briefs in Molecular Science, 2014, , 81-94.	0.1	0
35	Global optimization of clusters using electronic structure methods. International Journal of Quantum Chemistry, 2013, 113, 2091-2109.	1.0	184
36	Note: Gas phase structures of bare Si8 and Si11 clusters from molecular beam electric deflection experiments. Journal of Chemical Physics, 2012, 136, 186101.	1.2	27

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37	Polarizabilities of SiN (N = 8â€“75) clusters from molecular beam electric deflection experiments. European Physical Journal D, 2012, 66, 1.	0.6	18
38	Dopant-induced 2Dâ€“3D transition in small Au-containing clusters: DFT-global optimisation of 8-atom Auâ€“Ag nanoalloys. Nanoscale, 2012, 4, 1109-1115.	2.8	93
39	Nineâ€Atom Tinâ€Bismuth Clusters: Mimicking Excess Electrons by Element Substitution. ChemPlusChem, 2012, 77, 532-535.	1.3	16
40	Bismuth-Doped Tin Clusters: Experimental and Theoretical Studies of Neutral Zintl Analogues. Journal of Physical Chemistry A, 2012, 116, 7756-7764.	1.1	35
41	On the rotational temperature and structure dependence of electric field deflection experiments: A case study of germanium clusters. Journal of Chemical Physics, 2011, 135, 034303.	1.2	30
42	Mass spectrometry and beam deflection studies of tinâ€“lead nanoalloy clusters. Physical Chemistry Chemical Physics, 2010, 12, 247-253.	1.3	7
43	Photoswitchable Catalysts: Correlating Structure and Conformational Dynamics with Reactivity by a Combined Experimental and Computational Approach. Journal of the American Chemical Society, 2009, 131, 357-367.	6.6	141
44	Electric deflection studies on lead clusters. Journal of Chemical Physics, 2008, 129, 044304.	1.2	27
45	AP-MALDI MSI of lipids in mouse brain tissue sections. Protocol Exchange, 0, , .	0.3	4
46	Chemical and topographical 3D surface profiling using atmospheric pressure LDI and MALDI MS imaging. Protocol Exchange, 0, , .	0.3	4