

Stefan M Huber

List of Publications by Year in descending order

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papers

6,519
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66234

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117
docs citations

117
times ranked

3682
citing authors

#	ARTICLE	IF	CITATIONS
1	Halogen Bonding in Organic Synthesis and Organocatalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 14434-14450.	1.7	477
2	Chalcogen Bonding: An Overview. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1880-1891.	7.2	435
3	Catalysis of Organic Reactions through Halogen Bonding. <i>ACS Catalysis</i> , 2019, 9, 9622-9639.	5.5	280
4	Organocatalysis by Neutral Multidentate Halogen-Bond Donors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7028-7032.	7.2	276
5	Halogen-Bond-Induced Activation of a Carbon-Heteroatom Bond. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7187-7191.	7.2	275
6	Cationic Multidentate Halogen-Bond Donors in Halide Abstraction Organocatalysis: Catalyst Optimization by Preorganization. <i>Journal of the American Chemical Society</i> , 2015, 137, 12110-12120.	6.6	234
7	Activation of a carbonyl compound by halogen bonding. <i>Chemical Communications</i> , 2014, 50, 6281.	2.2	194
8	Catalytic deracemization of chiral allenes by sensitized excitation with visible light. <i>Nature</i> , 2018, 564, 240-243.	13.7	180
9	Iodine(III) Derivatives as Halogen Bonding Organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3830-3833.	7.2	165
10	Chalcogen Bonding Catalysis of a Nitro-Michael Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16923-16927.	7.2	161
11	Carbon-Halogen Bond Activation by Selenium-Based Chalcogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12009-12012.	7.2	159
12	Isothermal Calorimetric Titrations on Charge-Assisted Halogen Bonds: Role of Entropy, Counterions, Solvent, and Temperature. <i>Journal of the American Chemical Society</i> , 2012, 134, 8507-8512.	6.6	149
13	Characterizing the interplay of Pauli repulsion, electrostatics, dispersion and charge transfer in halogen bonding with energy decomposition analysis. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 905-915.	1.3	139
14	Unexpected trends in halogen-bond based noncovalent adducts. <i>Chemical Communications</i> , 2012, 48, 7708.	2.2	136
15	On the directionality of halogen bonding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10350.	1.3	136
16	A halogen-bonding-catalyzed Michael addition reaction. <i>Chemical Communications</i> , 2017, 53, 12052-12055.	2.2	126
17	5-Iodo-1,2,3-triazolium-based multidentate halogen-bond donors as activating reagents. <i>Chemical Communications</i> , 2012, 48, 9299.	2.2	115
18	Toward Molecular Recognition: Three-Point Halogen Bonding in the Solid State and in Solution. <i>Journal of the American Chemical Society</i> , 2014, 136, 16740-16743.	6.6	100

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19	Catalytic Carbon–Chlorine Bond Activation by Selenium-Based Chalcogen Bond Donors. Chemistry - A European Journal, 2017, 23, 16972-16975.	1.7	100
20	4,4'-Azobis(halopyridinium) Derivatives: Strong Multidentate Halogen Bond Donors with a Redox-Active Core. Chemistry - A European Journal, 2012, 18, 1306-1310.	1.7	99
21	Enantiotopos-Selective C–H Oxygenation Catalyzed by a Supramolecular Ruthenium Complex. Angewandte Chemie - International Edition, 2015, 54, 691-695.	7.2	98
22	Copper(I)-Ketocarboxylate Complexes: Characterization and O ₂ Reactions That Yield Copper-Oxygen Intermediates Capable of Hydroxylating Arenes. Journal of the American Chemical Society, 2007, 129, 14190-14192.	6.6	93
23	A Bidentate Iodine(III)-Based Halogen Bond Donor as a Powerful Organocatalyst**. Angewandte Chemie - International Edition, 2021, 60, 5069-5073.	7.2	85
24	Chalkogenbrücken: eine Übersicht. Angewandte Chemie, 2019, 131, 1896-1907.	1.6	84
25	Carbonyl Activation by Selenium- and Tellurium-Based Chalcogen Bonding in a Michael Addition Reaction. Chemistry - A European Journal, 2020, 26, 1258-1262.	1.7	84
26	Enantio- and Regioselective Epoxidation of Olefinic Double Bonds in Quinolones, Pyridones, and Amides Catalyzed by a Ruthenium Porphyrin Catalyst with a Hydrogen Bonding Site. Journal of the American Chemical Society, 2012, 134, 12869-12878.	6.6	79
27	Reduction of Nitrous Oxide to Dinitrogen by a Mixed Valent Tricopper-Disulfido Cluster. Journal of the American Chemical Society, 2009, 131, 2812-2814.	6.6	77
28	Bidentate Chiral Bis(imidazolium)-Based Halogen Bond Donors: Synthesis and Applications in Enantioselective Recognition and Catalysis. Angewandte Chemie - International Edition, 2020, 59, 6806-6810.	7.2	76
29	The role of charge in 1,2,3-triazol(ium)-based halogen bonding activators. Chemical Communications, 2018, 54, 4013-4016.	2.2	71
30	Generating Cu ^{II} -Oxo/Cu ^{III} -Oxo Species from Cu ^I -Ketocarboxylate Complexes and O ₂ : In Silico Studies on Ligand Effects and C–H Activation Reactivity. Chemistry - A European Journal, 2009, 15, 4886-4895.	1.7	70
31	Activation of a Metal-Halogen Bond by Halogen Bonding. Angewandte Chemie - International Edition, 2020, 59, 16496-16500.	7.2	67
32	Hypervalent Iodine(III) Compounds as Biaxial Halogen Bond Donors. Journal of the American Chemical Society, 2020, 142, 8633-8640.	6.6	67
33	Chalkogenbrückenkatalyse einer Nitro-Michael-Reaktion. Angewandte Chemie, 2019, 131, 17079-17083.	1.6	61
34	Anti-Electrostatic-Halogen Bonding. Angewandte Chemie - International Edition, 2020, 59, 11150-11157.	7.2	59
35	Activation of Glycosyl Halides by Halogen Bonding. Chemistry - an Asian Journal, 2014, 9, 2095-2098.	1.7	58
36	Iron Catalysis for In-Situ Regeneration of Oxidized Cofactors by Activation and Reduction of Molecular Oxygen: A Synthetic Metalloporphyrin as a Biomimetic NAD(P)H Oxidase. Angewandte Chemie - International Edition, 2011, 50, 2397-2400.	7.2	57

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37	Aktivierung einer Kohlenstoff-Halogen-Bindung durch selenbasierte Chalkogenbrücken. <i>Angewandte Chemie</i> , 2017, 129, 12172-12176.	1.6	57
38	Refined SMD Parameters for Bromine and Iodine Accurately Model Halogen-Bonding Interactions in Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 15983-15987.	1.7	52
39	Diastereotopos-Differentiation in the Rh-Catalyzed Amination of Benzylic Methylene Groups in the $\hat{\pm}$ -Position to a Stereogenic Center. <i>Journal of the American Chemical Society</i> , 2012, 134, 13524-13531.	6.6	46
40	A halogen-bonding-catalysed Nazarov cyclisation reaction. <i>Chemical Communications</i> , 2019, 55, 8262-8265.	2.2	46
41	Iodine(III)-Based Halogen Bond Donors: Properties and Applications. <i>Chemical Record</i> , 2021, 21, 1912-1927.	2.9	46
42	Multiple Multidentate Halogen Bonding in Solution, in the Solid State, and in the (Calculated) Gas Phase. <i>Chemistry - A European Journal</i> , 2015, 21, 13625-13636.	1.7	43
43	Understanding, Controlling and Programming Cooperativity in Self-Assembled Polynuclear Complexes in Solution. <i>Chemistry - A European Journal</i> , 2009, 15, 12702-12718.	1.7	42
44	The Interaction Modes of Haloimidazolium Salts in Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 3464-3473.	1.7	40
45	Iod(III)-Verbindungen als Halogenbrückenkatalysatoren. <i>Angewandte Chemie</i> , 2018, 130, 3892-3896.	1.6	39
46	Polyfluorinated versus cationic multidentate halogen-bond donors: A direct comparison. <i>Journal of Fluorine Chemistry</i> , 2013, 150, 14-20.	0.9	38
47	Synthesis of Polyfluorinated Biphenyls; Pushing the Boundaries of Suzuki-Miyaura Cross Coupling with Electron-Poor Substrates. <i>Journal of Organic Chemistry</i> , 2017, 82, 13188-13203.	1.7	38
48	Enantioselective reduction of sulfur-containing cyclic imines through biocatalysis. <i>Nature Communications</i> , 2018, 9, 1949.	5.8	37
49	A Thioxanthone Sensitizer with a Chiral Phosphoric Acid Binding Site: Properties and Applications in Visible Light-Mediated Cycloadditions. <i>Chemistry - A European Journal</i> , 2020, 26, 5190-5194.	1.7	36
50	Chiral Propargylic Cations as Intermediates in S_N1 -Type Reactions: Substitution Pattern, Nuclear Magnetic Resonance Studies, and Origin of the Diastereoselectivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 2851-2857.	6.6	35
51	Is There a Single Ideal Parameter for Halogen-Bonding-Based Lewis Acidity?. <i>Chemistry - A European Journal</i> , 2020, 26, 3843-3861.	1.7	34
52	What Active Space Adequately Describes Oxygen Activation by a Late Transition Metal? CASPT2 and RASPT2 Applied to Intermediates from the Reaction of O_2 with a $Cu(I)$ -Ketocarboxylate. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2967-2976.	2.3	32
53	Preorganization: A Powerful Tool in Intermolecular Halogen Bonding in Solution. <i>ChemistryOpen</i> , 2020, 9, 214-224.	0.9	32
54	Nucleophilic \hat{I}^2 -Oniovinylation: Concept, Mechanism, Scope, and Applications. <i>Journal of the American Chemical Society</i> , 2008, 130, 4610-4617.	6.6	30

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55	Halogen Bonds in Organic Synthesis and Organocatalysis. Topics in Current Chemistry, 2014, 359, 167-203.	4.0	30
56	Potent affinity material for tracing acetone and related analytes based on molecular recognition by halogen bonds. Chemical Communications, 2015, 51, 2040-2043.	2.2	26
57	4,5-Bis(dialkylamino)-Substituted Imidazolium Systems: Facile Access to Heterocyclic Carbenes with Self-Umpolung Option. Chemistry - A European Journal, 2011, 17, 13078-13086.	1.7	24
58	Multidentate Halogen-Bond Donors as Lewis Acidic Activators or Catalysts in Halide Abstraction Reactions. Synlett, 2013, 24, 2624-2628.	1.0	24
59	Anti-electrostatic-Halogen Bonding between Ions of Like Charge. Chemistry - A European Journal, 2021, 27, 16530-16542.	1.7	24
60	Tuning the Halogen Bonding Strength of Cyclic Diaryliodonium Salts. Helvetica Chimica Acta, 2021, 104, e2000221.	1.0	24
61	Activation of Quinolines by Cationic Chalcogen Bond Donors. Synlett, 2019, 30, 1673-1678.	1.0	21
62	Anti-electrostatic-halogen bonding in solution. Chemical Science, 2021, 12, 8246-8251.	3.7	20
63	Chalcogen vs Halogen Bonding Catalysis in a Water-Bridge-Cocatalyzed Nitro-Michael Reaction. Journal of Organic Chemistry, 2022, 87, 1661-1668.	1.7	20
64	Crystal Engineering with Multipoint Halogen Bonding: Double Two-Point Donors and Acceptors at Work. Chemistry - A European Journal, 2020, 26, 1567-1575.	1.7	19
65	Silver-Catalyzed Enantioselective Sulfimidation Mediated by Hydrogen Bonding Interactions. Angewandte Chemie - International Edition, 2021, 60, 7920-7926.	7.2	19
66	Catalytic Activation of Imines by Chalcogen Bond Donors in a Povarov [4+2] Cycloaddition Reaction. Chemistry - A European Journal, 2022, 28, .	1.7	19
67	Halogen bonding two-point recognition with terphenyl derivatives. New Journal of Chemistry, 2018, 42, 10476-10480.	1.4	17
68	NMR Determination of the Binding Constant of Ionic Species: A Caveat. Journal of Organic Chemistry, 2018, 83, 10881-10886.	1.7	16
69	ZweizÄhnige chirale Bis(imidazolium)-basierte Halogenbrückendonoren: Synthese und Anwendungen in enantioselektiver Erkennung und Katalyse. Angewandte Chemie, 2020, 132, 6872-6877.	1.6	16
70	Catalytic Activation of a Carbon-Chloride Bond by Dicationic Tellurium-Based Chalcogen Bond Donors. Synthesis, 2021, 53, 2043-2050.	1.2	14
71	Halogen bonding and π - π interactions in the solid-state structure of a butadiynylene-linked bis(iodoperfluoroarene). CrystEngComm, 2013, 15, 3097.	1.3	13
72	Ein zweizÄhniger Iod(III)-basierter Halogenbrückendonator als leistungsfähiger Organokatalysator**. Angewandte Chemie, 2021, 133, 5127-5132.	1.6	12

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73	Halogen Bond Activation in Gold Catalysis. <i>ACS Catalysis</i> , 2022, 12, 7210-7220.	5.5	12
74	Structure, Stereoelectronics, and Synthetic Potential of 1,2-Bis(alkylamino)ethenes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8059-8062.	7.2	10
75	Antielektrostatische Halogenbrücken. <i>Angewandte Chemie</i> , 2020, 132, 11244-11251.	1.6	10
76	Towards redox-switchable organocatalysts based on bidentate halogen bond donors. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4344-4352.	1.3	9
77	Massive Electrostatic Effects on Heteropolar C-C Disconnections: Transforming a Phenyl Anion into a Potent Leaving Group. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3530-3535.	1.2	8
78	Noble Metal Corrosion: Halogen Bonded Iodocarbenium Iodides Dissolve Elemental Gold – Direct Access to Gold – Carbene Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 7480-7484.	1.7	8
79	Aktivierung einer Metall-Halogen-Bindung durch Halogenbrücken. <i>Angewandte Chemie</i> , 2020, 132, 16638.	1.6	8
80	Mukaiyama aldol reaction catalyzed by (benz)imidazolium-based halogen bond donors. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 770-774.	1.5	8
81	Synthesis, Crystal and Electronic Structures of a Thiophosphinoyl- and Amino-Substituted Metallated Ylide. <i>ChemistryOpen</i> , 2021, 10, 1089-1094.	0.9	6
82	From DMF to isatine: A novel and general one-pot synthesis of isatine and its N-unsubstituted derivatives via nucleophilic substitution reactions on 1,2-bis(dimethylamino)-1,2-dichloroethene. <i>Journal of Heterocyclic Chemistry</i> , 2009, 46, 421-427.	1.4	4
83	Syntheses and Reactions of Polycationically Substituted Azido- and Diazidobenzenes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5270-5276.	1.2	3
84	A low cost, high accuracy method for halogen bonding complexes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3041-3049.	1.3	3
85	Guest Editorial: The 3rd Transatlantic Frontiers in Chemistry Symposium. <i>Chemistry - A European Journal</i> , 2013, 19, 15777-15783.	1.7	2
86	Evaluation of 6-halogenated 2-pyridone moieties as halogen bond donors. <i>European Journal of Organic Chemistry</i> , 0, , .	1.2	2
87	Synthesizing highly fluorinated oligophenyls via Negishi coupling of fluoroarylzinc pivalates. <i>Synthesis</i> , 0, , .	1.2	1
88	Synthesis, Crystal and Electronic Structures of a Thiophosphinoyl- and Amino-Substituted Metallated Ylide. <i>ChemistryOpen</i> , 2021, 10, 1088-1088.	0.9	1
89	The Interaction Modes of Haloimidazolium Salts in Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 3344-3344.	1.7	0
90	Reaktionstitelbild: Chalkogenbrückenkatalyse einer Nitro-Michael-Reaktion (<i>Angew. Chem.</i> 47/2019). <i>Angewandte Chemie</i> , 2019, 131, 17240-17240.	1.6	0

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91	Titelbild: Zweifelhafte chirale Bis(imidazolium)-basierte Halogenbrückenendonoren: Synthese und Anwendungen in enantioselektiver Erkennung und Katalyse (Angew. Chem. 17/2020). Angewandte Chemie, 2020, 132, 6697-6697.	1.6	0
92	Selenium-oxygen and selenium-bromine contacts in a hypervalent bis(2-selanylimidazolium)benzene derivative. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s252-s252.	0.3	0
93	Innenbrückentitelbild: Aktivierung einer Kohlenstoff-Halogen-Bindung durch selenbasierte Chalkogenbrücken (Angew. Chem. 39/2017). Angewandte Chemie, 2017, 129, 12177-12177.	1.6	0