Stefan M Huber

List of Publications by Year
in descending order

93 papers	6,519 citations	66234 42 h-index	64668 79 g-index
117 all docs	117 docs citations	117 times ranked	3682 citing authors

#	Article	IF	Citations
1	Chalcogen vs Halogen Bonding Catalysis in a Water-Bridge-Cocatalyzed Nitro-Michael Reaction. Journal of Organic Chemistry, 2022, 87, 1661-1668.	1.7	20
2	Halogen Bond Activation in Gold Catalysis. ACS Catalysis, 2022, 12, 7210-7220.	5.5	12
3	Catalytic Activation of Imines by Chalcogen Bond Donors in a Povarov [4+2] Cycloaddition Reaction. Chemistry - A European Journal, 2022, 28, .	1.7	19
4	A Bidentate Iodine(III)â€Based Halogenâ€Bond Donor as a Powerful Organocatalyst**. Angewandte Chemie - International Edition, 2021, 60, 5069-5073.	7.2	85
5	Ein zweizÃhniger Iod(III)â€basierter HalogenbrÃ¼ckendonor als leistungsfÃhiger Organokatalysator**. Angewandte Chemie, 2021, 133, 5127-5132.	1.6	12
6	A low cost, high accuracy method for halogen bonding complexes. Physical Chemistry Chemical Physics, 2021, 23, 3041-3049.	1.3	3
7	Mukaiyama aldol reaction catalyzed by (benz)imidazolium-based halogen bond donors. Organic and Biomolecular Chemistry, 2021, 19, 770-774.	1.5	8
8	â€œAnti-electrostaticâ€•halogen bonding in solution. Chemical Science, 2021, 12, 8246-8251.	3.7	20
9	Towards redox-switchable organocatalysts based on bidentate halogen bond donors. Physical Chemistry Chemical Physics, 2021, 23, 4344-4352.	1.3	9
10	Silverâ€Catalyzed Enantioselective Sulfimidation Mediated by Hydrogen Bonding Interactions. Angewandte Chemie - International Edition, 2021, 60, 7920-7926.	7.2	19
11	Iodine(III)â€Based Halogen Bond Donors: Properties and Applications. Chemical Record, 2021, 21, 1912-1927.	2.9	46
12	â€œAntiâ€electrostaticâ€•Halogen Bonding between Ions of Like Charge. Chemistry - A European Journal, 2021, 27, 16530-16542.	1.7	24
13	Synthesis, Crystal and Electronic Structures of a Thiophosphinoylâ€•and Aminoâ€Substituted Metallated Ylide. ChemistryOpen, 2021, 10, 1089-1094.	0.9	6
14	Catalytic Activation of a Carbonâ€“Chloride Bond by Dicationic Tellurium-Based Chalcogen Bond Donors. Synthesis, 2021, 53, 2043-2050.	1.2	14
15	Tuning the Halogen Bonding Strength of Cyclic Diaryliodonium Salts. Helvetica Chimica Acta, 2021, 104, e2000221.	1.0	24
16	Synthesis, Crystal and Electronic Structures of a Thiophosphinoylâ€•and Aminoâ€Substituted Metallated Ylide. ChemistryOpen, 2021, 10, 1088-1088.	0.9	1
17	Carbonyl Activation by Seleniumâ€•and Telluriumâ€Based Chalcogen Bonding in a Michael Addition Reaction. Chemistry - A European Journal, 2020, 26, 1258-1262.	1.7	84
18	Crystal Engineering with Multipoint Halogen Bonding: Double Twoâ€Point Donors and Acceptors at Work. Chemistry - A European Journal, 2020, 26, 1567-1575.	1.7	19

#	Article	IF	Citations
19	Titelbild: ZweizÃhnige chirale Bis(imidazolium)â€basierte HalogenbrÃ¼ckendonoren: Synthese und Anwendungen in enantioselektiver Erkennung und Katalyse (Angew. Chem. 17/2020). Angewandte Chemie, 2020, 132, 6697-6697.	1.6	0
20	â€œAntiâ€elektrostatischeâ€•HalogenbrÃ¼cken. Angewandte Chemie, 2020, 132, 11244-11251.	1.6	10
21	Activation of a Metalâ€Halogen Bond by Halogen Bonding. Angewandte Chemie - International Edition, 2020, 59, 16496-16500.	7.2	67
22	Aktivierung einer Metallâ€Halogenâ€Bindung durch HalogenbrÃ¼cken. Angewandte Chemie, 2020, 132, 16638.	1.6	8
23	â€œAntiâ€Electrostaticâ€•Halogen Bonding. Angewandte Chemie - International Edition, 2020, 59, 11150-11157.	7.2	59
24	ZweizÃhnige chirale Bis(imidazolium)â€basierte HalogenbrÃ¼ckendonoren: Synthese und Anwendungen in enantioselektiver Erkennung und Katalyse. Angewandte Chemie, 2020, 132, 6872-6877.	1.6	16
25	Bidentate Chiral Bis(imidazolium)â€Based Halogenâ€Bond Donors: Synthesis and Applications in Enantioselective Recognition and Catalysis. Angewandte Chemie - International Edition, 2020, 59, 6806-6810.	7.2	76
26	A Thioxanthone Sensitizer with a Chiral Phosphoric Acid Binding Site: Properties and Applications in Visible Lightâ€Mediated Cycloadditions. Chemistry - A European Journal, 2020, 26, 5190-5194.	1.7	36
27	Preorganization: A Powerful Tool in Intermolecular Halogen Bonding in Solution. ChemistryOpen, 2020, 9, 214-224.	0.9	32
28	Is There a Single Ideal Parameter for Halogenâ€Bondingâ€Based Lewis Acidity?. Chemistry - A European Journal, 2020, 26, 3843-3861.	1.7	34
29	Hypervalent Iodine(III) Compounds as Biaxial Halogen Bond Donors. Journal of the American Chemical Society, 2020, 142, 8633-8640.	6.6	67
30	Activation of Quinolines by Cationic Chalcogen Bond Donors. Synlett, 2019, 30, 1673-1678.	1.0	21
31	Chalcogen Bonding Catalysis of a Nitroâ€Michael Reaction. Angewandte Chemie - International Edition, 2019, 58, 16923-16927.	7.2	161
32	ChalkogenbrÃ¼ckenkatalyse einer Nitroâ€Michaelâ€Reaktion. Angewandte Chemie, 2019, 131, 17079-17083.	1.6	61
33	Catalysis of Organic Reactions through Halogen Bonding. ACS Catalysis, 2019, 9, 9622-9639.	5.5	280
34	A halogen-bonding-catalysed Nazarov cyclisation reaction. Chemical Communications, 2019, 55, 8262-8265.	2.2	46
35	Noble Metal Corrosion: Halogen Bonded Iodocarbenium Iodides Dissolve Elemental Goldâ€”Direct Access to Goldâ€“Carbene Complexes. Chemistry - A European Journal, 2019, 25, 7480-7484.	1.7	8
36	RÃ¼cktitelbild: ChalkogenbrÃ¼ckenkatalyse einer Nitroâ€Michaelâ€Reaktion (Angew. Chem. 47/2019). Angewandte Chemie, 2019, 131, 17240-17240.	1.6	0

#	Article	IF	Citations
37	Chalcogen Bonding: An Overview. Angewandte Chemie - International Edition, 2019, 58, 1880-1891.	7.2	435
38	ChalkogenbrÃ¼cken: eine Ãœbersicht. Angewandte Chemie, 2019, 131, 1896-1907.	1.6	84
39	Halogen bonding two-point recognition with terphenyl derivatives. New Journal of Chemistry, 2018, 42, 10476-10480.	1.4	17
40	The role of charge in 1,2,3-triazol(ium)-based halogen bonding activators. Chemical Communications, 2018, 54, 4013-4016.	2.2	71
41	Iod(III)â€Verbindungen als HalogenbrÃ¼ckenkatalysatoren. Angewandte Chemie, 2018, 130, 3892-3896.	1.6	39
42	The Interaction Modes of Haloimidazolium Salts in Solution. Chemistry - A European Journal, 2018, 24, 3344-3344.	1.7	0
43	Iodine(III) Derivatives as Halogen Bonding Organocatalysts. Angewandte Chemie - International Edition, 2018, 57, 3830-3833.	7.2	165
44	The Interaction Modes of Haloimidazolium Salts in Solution. Chemistry - A European Journal, 2018, 24, 3464-3473.	1.7	40
45	Characterizing the interplay of Pauli repulsion, electrostatics, dispersion and charge transfer in halogen bonding with energy decomposition analysis. Physical Chemistry Chemical Physics, 2018, 20, 905-915.	1.3	139
46	Catalytic deracemization of chiral allenes by sensitized excitation with visible light. Nature, 2018, 564, 240-243.	13.7	180
47	Refined SMD Parameters for Bromine and Iodine Accurately Model Halogenâ€Bonding Interactions in Solution. Chemistry - A European Journal, 2018, 24, 15983-15987.	1.7	52
48	Enantioselective reduction of sulfur-containing cyclic imines through biocatalysis. Nature Communications, 2018, 9, 1949.	5.8	37
49	NMR Determination of the Binding Constant of Ionic Species: A Caveat. Journal of Organic Chemistry, 2018, 83, 10881-10886.	1.7	16
50	Aktivierung einer Kohlenstoffâ€Halogenâ€Bindung durch selenbasierte ChalkogenbrÃ¼cken. Angewandte Chemie, 2017, 129, 12172-12176.	1.6	57
51	Carbonâ€“Halogen Bond Activation by Seleniumâ€Based Chalcogen Bonding. Angewandte Chemie - International Edition, 2017, 56, 12009-12012.	7.2	159
52	Catalytic Carbonâ€“Chlorine Bond Activation by Seleniumâ€Based Chalcogen Bond Donors. Chemistry - A European Journal, 2017, 23, 16972-16975.	1.7	100
53	A halogen-bonding-catalyzed Michael addition reaction. Chemical Communications, 2017, 53, 12052-12055.	2.2	126
54	Synthesis of Polyflourinated Biphenyls; Pushing the Boundaries of Suzukiâ€“Miyaura Cross Coupling with Electron-Poor Substrates. Journal of Organic Chemistry, 2017, 82, 13188-13203.	1.7	38

#	Article	IF	Citations
55	InnenrÃ¼cktitelbild: Aktivierung einer Kohlenstoffâ€Halogenâ€Bindung durch selenbasierte ChalkogenbrÃ¼cken (Angew. Chem. 39/2017). Angewandte Chemie, 2017, 129, 12177-12177.	1.6	0
56	Halogen Bonding in Organic Synthesis and Organocatalysis. Chemistry - A European Journal, 2016, 22, 14434-14450.	1.7	477
57	Enantiotoposâ€Selective Cï£¿H Oxygenation Catalyzed by a Supramolecular Ruthenium Complex. Angewandte Chemie - International Edition, 2015, 54, 691-695.	7.2	98
58	Multiple Multidentate Halogen Bonding in Solution, in the Solid State, and in the (Calculated) Gas Phase. Chemistry - A European Journal, 2015, 21, 13625-13636.	1.7	43
59	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
60	Cationic Multidentate Halogen-Bond Donors in Halide Abstraction Organocatalysis: Catalyst Optimization by Preorganization. Journal of the American Chemical Society, 2015, 137, 12110-12120.	6.6	234
61	Chiral Propargylic Cations as Intermediates in SN1-Type Reactions: Substitution Pattern, Nuclear Magnetic Resonance Studies, and Origin of the Diastereoselectivity. Journal of the American Chemical Society, 2014, 136, 2851-2857.	6.6	35
62	Toward Molecular Recognition: Three-Point Halogen Bonding in the Solid State and in Solution. Journal of the American Chemical Society, 2014, 136, 16740-16743.	6.6	100
63	Halogen Bonds in Organic Synthesis and Organocatalysis. Topics in Current Chemistry, 2014, 359, 167-203.	4.0	30
64	Activation of a carbonyl compound by halogen bonding. Chemical Communications, 2014, 50, 6281.	2.2	194
65	Activation of Glycosyl Halides by Halogen Bonding. Chemistry - an Asian Journal, 2014, 9, 2095-2098.	1.7	58
66	Polyfluorinated versus cationic multidentate halogen-bond donors: A direct comparison. Journal of Fluorine Chemistry, 2013, 150, 14-20.	0.9	38
67	Halogen bonding and Ï€â€“Ï€ interactions in the solid-state structure of a butadiynylene-linked bis(iodoperfluoroarene). CrystEngComm, 2013, 15, 3097.	1.3	13
68	On the directionality of halogen bonding. Physical Chemistry Chemical Physics, 2013, 15, 10350.	1.3	136
69	Organocatalysis by Neutral Multidentate Halogenâ€Bond Donors. Angewandte Chemie - International Edition, 2013, 52, 7028-7032.	7.2	276
70	Multidentate Halogen-Bond Donors as Lewis Acidic Activators or Catalysts in Halide Abstraction Reactions. Synlett, 2013, 24, 2624-2628.	1.0	24
71	Guest Editorial: The 3rd Transatlantic Frontiers in Chemistry Symposium. Chemistry - A European Journal, 2013, 19, 15777-15783.	1.7	2
72	Diastereotopos-Differentiation in the Rh-Catalyzed Amination of Benzylic Methylene Groups in the Î±-Position to a Stereogenic Center. Journal of the American Chemical Society, 2012, 134, 13524-13531.	6.6	46

#	Article	IF	Citations
73	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
74	5-Iodo-1,2,3-triazolium-based multidentate halogen-bond donors as activating reagents. Chemical Communications, 2012, 48, 9299.	2.2	115
75	Isothermal Calorimetric Titrations on Charge-Assisted Halogen Bonds: Role of Entropy, Counterions, Solvent, and Temperature. Journal of the American Chemical Society, 2012, 134, 8507-8512.	6.6	149
76	Unexpected trends in halogen-bond based noncovalent adducts. Chemical Communications, 2012, 48, 7708.	2.2	136
77	4,4â€²â€Azobis(halopyridinium) Derivatives: Strong Multidentate Halogenâ€Bond Donors with a Redoxâ€Active Core. Chemistry - A European Journal, 2012, 18, 1306-1310.	1.7	99
78	Seleniumâ€“oxygen and seleniumâ€“bromine contacts in a hypervalent bis(2-selanylimidazolium)benzene derivative. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s252-s252.	0.3	0
79	Iron Catalysis for Inâ€…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
80	Halogenâ€Bondâ€Induced Activation of a Carbonâ€“Heteroatom Bond. Angewandte Chemie - International Edition, 2011, 50, 7187-7191.	7.2	275
81	4,5â€Bis(dialkylamino)â€Substituted Imidazolium Systems: Facile Access to Nâ€Heterocyclic Carbenes with Selfâ€Umpolung Option. Chemistry - A European Journal, 2011, 17, 13078-13086.	1.7	24
82	Generating Cu^{II}â€“Oxyl/Cu^{III}â€“Oxo Species from Cu^Iâ€“Îºâ€Ketocarboxylate Complexes and O₂: In Silico Studies on Ligand Effects and Cï¿½Hâ€Activation Reactivity. Chemistry - A European Journal, 2009, 15, 4886-4895.	1.7	70
83	Understanding, Controlling and Programming Cooperativity in Selfâ€Assembled Polynuclear Complexes in Solution. Chemistry - A European Journal, 2009, 15, 12702-12718.	1.7	42
84	From DMF to isatine: A novel and general oneâ€pot synthesis of isatine and its Nâ€unsubstituted derivatives vianucleophilic substitution reactions on 1,2â€bis(dimethylamino)â€1,2â€dichloroâ€ethene. Journal of Heterocyclic Chemistry, 2009, 46, 421-427.	1.4	4
85	What Active Space Adequately Describes Oxygen Activation by a Late Transition Metal? CASPT2 and RASPT2 Applied to Intermediates from the Reaction of O2 with a Cu(I)-Îº-Ketocarboxylate. Journal of Chemical Theory and Computation, 2009, 5, 2967-2976.	2.3	32
86	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
87	Nucleophilic Î²-Oniovinylation:â€‰ Concept, Mechanism, Scope, and Applications. Journal of the American Chemical Society, 2008, 130, 4610-4617.	6.6	30
88	Copper(I)â^’Îº-Ketocarboxylate Complexes:â€‰ Characterization and O₂ Reactions That Yield Copperâ^’Oxygen Intermediates Capable of Hydroxylating Arenes. Journal of the American Chemical Society, 2007, 129, 14190-14192.	6.6	93
89	Syntheses and Reactions of Polycationically Substituted Azidoâ€and Diazidobenzenes. European Journal of Organic Chemistry, 2007, 2007, 5270-5276.	1.2	3
90	Structure, Stereoelectronics, and Synthetic Potential of 1,2-Bisonio-1,2-bis(dialkylamino)ethenes. Angewandte Chemie - International Edition, 2006, 45, 8059-8062.	7.2	10

#	Article	IF	Citations
91	Massive Electrostatic Effects on Heteropolar C-C Disconnections: Transforming a Phenyl Anion into a Potent Leaving Group. European Journal of Organic Chemistry, 2005, 2005, 3530-3535.	1.2	8
92	Synthesizing highly fluorinated oligophenyls via Negishi coupling of fluoroarylzinc pivalates. Synthesis, 0, , .	1.2	1
93	Evaluation of 6â€halogenated 2â€pyridone moieties as halogen bond donors. European Journal of Organic Chemistry, 0, , .	1.2	2