

# Thomas Lectka

## List of Publications by Year in descending order

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70  
papers

2,954  
citations

172457

29  
h-index

168389

53  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2222  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Polycomponent Metal-Catalyzed Aliphatic, Allylic, and Benzylic Fluorination. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10580-10583.	13.8	226
2	Direct, Catalytic Monofluorination of $sp^3$ C-H Bonds: A Radical-Based Mechanism with Ionic Selectivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 9780-9791.	13.7	163
3	Iron(II)-Catalyzed Benzylic Fluorination. <i>Organic Letters</i> , 2013, 15, 1722-1724.	4.6	145
4	A Novel Synthesis of $\beta$ -Amino Acid Derivatives through Catalytic, Enantioselective Ene Reactions of $\beta$ -Imino Esters. <i>Journal of the American Chemical Society</i> , 1998, 120, 11006-11007.	13.7	141
5	Aminofluorination of Cyclopropanes: A Multifold Approach through a Common, Catalytically Generated Intermediate. <i>Journal of the American Chemical Society</i> , 2016, 138, 6598-6609.	13.7	139
6	$\alpha$ -Orthogonal Lewis Acids-Catalyzed Ring Opening and Rearrangement of Acylaziridines. <i>Journal of Organic Chemistry</i> , 1998, 63, 4568-4569.	3.2	129
7	Recent Developments in Catalytic, Asymmetric $\beta$ -Halogenation: A New Frontier in Asymmetric Catalysis. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 475-479.	2.4	121
8	A photocatalyzed aliphatic fluorination. <i>Chemical Science</i> , 2014, 5, 1175-1178.	7.4	121
9	Site-Selective Approach to $\beta$ -Fluorination: Photocatalyzed Ring Opening of Cyclopropanols. <i>Chemistry - A European Journal</i> , 2015, 21, 8060-8063.	3.3	102
10	Three-center, two-electron C-H-C bonds in organic chemistry. <i>Accounts of Chemical Research</i> , 1992, 25, 47-53.	15.6	88
11	Intramolecular Catalysis of Amide Isomerization: Kinetic Consequences of the 5-NH-Na Hydrogen Bond in Prolyl Peptides. <i>Journal of the American Chemical Society</i> , 1998, 120, 10660-10668.	13.7	88
12	Reactive Ketenes through a Carbonate/Amine Shuttle Deprotonation Strategy: Catalytic, Enantioselective $\beta$ -Bromination of Acid Chlorides. <i>Organic Letters</i> , 2001, 3, 2049-2051.	4.6	87
13	Evidence for a Symmetrical Fluoronium Ion in Solution. <i>Science</i> , 2013, 340, 57-60.	12.6	78
14	Ketones as directing groups in photocatalytic $sp^3$ C-H fluorination. <i>Chemical Science</i> , 2017, 8, 6918-6923.	7.4	75
15	Multiple Enone-Directed Reactivity Modes Lead to the Selective Photochemical Fluorination of Polycyclic Terpenoid Derivatives. <i>Journal of the American Chemical Society</i> , 2017, 139, 2208-2211.	13.7	64
16	C-F Bond Activation by Aryl Carbocations: Conclusive Intramolecular Fluoride Shifts between Carbon Atoms in Solution and the First Examples of Intermolecular Fluoride Ion Abstractions. <i>Journal of the American Chemical Society</i> , 1997, 119, 4319-4320.	13.7	62
17	The in-bicyclo[4.4.4]-1-tetradecyl cation: a stable substance with a three-center, two-electron carbon-hydrogen-carbon bond. <i>Journal of the American Chemical Society</i> , 1989, 111, 8867-8872.	13.7	60
18	Triethylborane-Initiated Radical Chain Fluorination: A Synthetic Method Derived from Mechanistic Insight. <i>Journal of Organic Chemistry</i> , 2014, 79, 8895-8899.	3.2	59

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19	Strong Hydrogen Bonding to the Amide Nitrogen Atom in an "Amide Proton Sponge": Consequences for Structure and Reactivity. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 798-800.	13.8	54
20	Modulating "Jousting" C-F...H...C Interactions with a Bit of Hydrogen Bonding. <i>Journal of Organic Chemistry</i> , 2014, 79, 1-6.	3.2	51
21	Unstrained C-C bond activation and directed fluorination through photocatalytically-generated radical cations. <i>Chemical Science</i> , 2015, 6, 5225-5229.	7.4	49
22	Direct, visible light-sensitized benzylic C-H fluorination of peptides using dibenzosuberone: selectivity for phenylalanine-like residues. <i>Tetrahedron</i> , 2016, 72, 6031-6036.	1.9	45
23	Nucleophilic Metal Complexes as Acylation Catalysts: "Solvent-Dependent "Switch" Mechanisms Leading to the First Catalyzed Staudinger Reaction. <i>Organic Letters</i> , 1999, 1, 1985-1988.	4.6	43
24	Search for a Strong, Virtually "No" Shift-Hydrogen Bond: A Cage Molecule with an Exceptional OH...F Interaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8924-8928.	13.8	41
25	Catalyzed and Promoted Aliphatic Fluorination. <i>Journal of Organic Chemistry</i> , 2018, 83, 8803-8814.	3.2	40
26	Carbonyl-Directed Aliphatic Fluorination: A Special Type of Hydrogen Atom Transfer Beats Out Norrish II. <i>Journal of the American Chemical Society</i> , 2020, 142, 14710-14724.	13.7	37
27	Positioning a Carbon-Fluorine Bond over the "Cloud of an Aromatic Ring: A Different Type of Arene Activation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8266-8269.	13.8	35
28	NH...F Hydrogen Bonding in a Fluorinated "Proton Sponge" Derivative: Integration of Solution, Solid-State, Gas-Phase, and Computational Studies. <i>Journal of Organic Chemistry</i> , 2011, 76, 7975-7984.	3.2	31
29	A cooperative allylic fluorination: combination of nucleophilic and electrophilic fluorine sources. <i>Tetrahedron Letters</i> , 2014, 55, 4576-4580.	1.4	29
30	A Mechanistic Study on the Catalytic, Asymmetric I <sub>2</sub> -Bromination of Acid Chlorides. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1091-1100.	2.4	28
31	Interaction of a C-F Bond with the "System of a C-C Bond or "Head On" with a Proximate C-H Bond. <i>Journal of Organic Chemistry</i> , 2012, 77, 1605-1609.	3.2	28
32	Site-Selective Photochemical Fluorination of Ketals: Unanticipated Outcomes in Selectivity and Stability. <i>Journal of Organic Chemistry</i> , 2020, 85, 2855-2864.	3.2	27
33	Sensitized Aliphatic Fluorination Directed by Terpenoidal Enones: A "Visible Light" Approach. <i>Journal of Organic Chemistry</i> , 2018, 83, 1565-1575.	3.2	26
34	Fluorofunctionalization of C-C Bonds with Selectfluor: Synthesis of I <sup>2</sup> -Fluoropiperazines through a Substrate-Guided Reactivity Switch. <i>Journal of Organic Chemistry</i> , 2018, 83, 14234-14244.	3.2	24
35	Fluorine in a C-F Bond as the Key to Cage Formation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2758-2766.	13.8	23
36	Search for a Symmetrical C-F...C Fluoronium Ion in Solution: Kinetic Isotope Effects, Synthetic Labeling, and Computational, Solvent, and Rate Studies. <i>Journal of the American Chemical Society</i> , 2015, 137, 11476-11490.	13.7	22

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37	Nucleophilic Catalysis of Amide Isomerization. <i>Journal of the American Chemical Society</i> , 1999, 121, 7963-7964.	13.7	21
38	Spectroscopic Characterization of a [C <sup>+</sup> F <sup>-</sup> C] Fluoronium Ion in Solution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1924-1927.	13.8	20
39	Through-Space Activation Can Override Substituent Effects in Electrophilic Aromatic Substitution. <i>Journal of the American Chemical Society</i> , 2017, 139, 14913-14916.	13.7	19
40	Intermolecular Aliphatic C <sup>+</sup> F <sup>-</sup> H <sup>-</sup> C Interaction in the Presence of Stronger Hydrogen Bond Acceptors: Crystallographic, Computational, and IR Studies. <i>Journal of Organic Chemistry</i> , 2017, 82, 3996-4000.	3.2	18
41	Fluorine: A Very Special Element and Its Very Special Impacts on Chemistry. <i>Journal of Organic Chemistry</i> , 2021, 86, 16213-16219.	3.2	15
42	Hydroxy-directed fluorination of remote unactivated C(sp <sup>3</sup> )-H bonds: a new age of diastereoselective radical fluorination. <i>Chemical Science</i> , 2022, 13, 7007-7013.	7.4	14
43	A C-F Bond Directed Diels-Alder Reaction. <i>Journal of Organic Chemistry</i> , 2016, 81, 8087-8090.	3.2	13
44	The Close Interaction of a C-F Bond with an Amide Carbonyl: Crystallographic and Spectroscopic Characterization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
45	The close interaction of a C F bond with a carbonyl system: Attractive, repulsive, or both?. <i>Journal of Fluorine Chemistry</i> , 2016, 188, 126-130.	1.7	12
46	Fluorine: A Very Special Element and Its Very Special Impacts on Chemistry. <i>Inorganic Chemistry</i> , 2021, 60, 17419-17425.	4.0	12
47	Synthesis of a Tight Intramolecular OH <sup>-</sup> •Olefin Interaction, Probed by IR, <sup>1</sup> H NMR, and Quantum Chemistry. <i>Journal of Organic Chemistry</i> , 2015, 80, 4803-4807.	3.2	11
48	Importance of Time Scale and Local Environment in Electron-Driven Proton Transfer. The Anion of Acetoacetic Acid. <i>Journal of the American Chemical Society</i> , 2015, 137, 14329-14340.	13.7	11
49	Positioning a Carbon-Fluorine Bond over the π-Cloud of an Aromatic Ring: A Different Type of Arene Activation. <i>Angewandte Chemie</i> , 2016, 128, 8406-8409.	2.0	11
50	Spectroscopic Characterization of a [C <sup>+</sup> F <sup>-</sup> C] + Fluoronium Ion in Solution. <i>Angewandte Chemie</i> , 2018, 130, 1942-1945.	2.0	11
51	A Case of Serendipity: Synthesis, Characterization, and Unique Chemistry of a Stable, Ring-Unsubstituted Aliphatic-Quinone Methide. <i>Organic Letters</i> , 2019, 21, 2326-2329.	4.6	11
52	Close Amide NH-F Hydrogen Bonding Interactions in 1,8-Disubstituted Naphthalenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 6195-6200.	3.2	11
53	Fluor in einer C-F-Bindung als Schlüssel für die Kf Bildung. <i>Angewandte Chemie</i> , 2018, 130, 2806-2815.	2.0	10
54	Structural proof of a [C <sup>+</sup> F <sup>-</sup> C]+ fluoronium cation. <i>Nature Communications</i> , 2021, 12, 5275.	12.8	9

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55	Fluorine: A Very Special Element and Its Very Special Impacts on Chemistry. <i>Organic Letters</i> , 2021, 23, 9013-9019.	4.6	9
56	Arene Amination Instead of Fluorination: Substitution Pattern Governs the Reactivity of Dialkoxybenzenes with Selectfluor. <i>Journal of Organic Chemistry</i> , 2021, 86, 5771-5777.	3.2	7
57	Quest for a Symmetric [Câ€“Fâ€“C] <sup>+</sup> Fluoronium Ion in Solution: A Winding Path to Ultimate Success. <i>Accounts of Chemical Research</i> , 2020, 53, 265-275.	15.6	6
58	Switching a HOâ€“â€“â€“ Interaction to a Nonconventional OHâ€“â€“â€“ Hydrogen Bond: A Completed Crystallographic Puzzle. <i>Journal of Organic Chemistry</i> , 2020, 85, 9801-9807.	3.2	6
59	Vibrational predissociation spectroscopy of Ar-tagged, trisubstituted silyl cations. <i>Chemical Physics Letters</i> , 2013, 568-569, 9-13.	2.6	5
60	Spectroscopic and Crystallographic Characterization of the R <sub>3</sub> N <sup>+</sup> â€“Câ€“Hâ€“â€“â€“X Interaction. <i>Chemistry - A European Journal</i> , 2022, 28, e202103922.	3.3	5
61	Discovery and Mechanistic Study of a Totally Organic C <sub>(aryl)</sub> â€“C <sub>(alkyl)</sub> Oxygen Insertion Reaction. <i>Journal of Organic Chemistry</i> , 2019, 84, 14349-14353.	3.2	4
62	A Protonated Quinone Methide Stabilized by a Combination of Partial Aromatization and â€“Interaction: Spectroscopic and Crystallographic Analysis. <i>Journal of Organic Chemistry</i> , 2019, 84, 8284-8288.	3.2	3
63	Energy- and conformer-dependent excited-state relaxation of an <i>E/Z</i> photoswitchable thienyl-ethene. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14440-14452.	2.8	3
64	Fluorine: A Very Special Element and Its Very Special Impacts on Chemistry. <i>Organometallics</i> , 0, , .	2.3	2
65	Rational Computational Design of Systems Exhibiting Strong Halogen Bonding Involving Fluorine in Bicyclic Diamine Derivatives. <i>Journal of Organic Chemistry</i> , 2022, 87, 8413-8419.	3.2	2
66	Synthesis and X-Ray crystallography of a substituted trityl fluoride: Ordering power of a C-F bond. <i>Journal of Fluorine Chemistry</i> , 2019, 228, 109377.	1.7	1
67	Titelbild: Positioning a Carbonâ€“Fluorine Bond over the â€“Cloud of an Aromatic Ring: A Different Type of Arene Activation ( <i>Angew. Chem.</i> 29/2016). <i>Angewandte Chemie</i> , 2016, 128, 8269-8269.	2.0	0
68	DFT Case Study of the Mechanism of a Metal-Free Oxygen Atom Insertion into a <i>p</i> -Quinone Methide C(sp <sup>3</sup> )â€“C(sp <sup>2</sup> ) Bond. <i>Journal of Organic Chemistry</i> , 2020, 85, 10110-10117.	3.2	0
69	Cooperative Noncovalent Interactions Lead to a Highly Diastereoselective Sulfonyl-Directed Fluorination of Steroidal $\Delta^{\pm,12}$ -Unsaturated Hydrazones. <i>Journal of Organic Chemistry</i> , 2021, 86, 1300-1307.	3.2	0
70	The Close Interaction of a Câ€“F Bond with an Amide Carbonyl: Crystallographic and Spectroscopic Characterization. <i>Angewandte Chemie</i> , 0, , .	2.0	0