

# David B Collum

## List of Publications by Year in descending order

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citations

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48  
h-index

74018

75  
g-index

130  
all docs

130  
docs citations

130  
times ranked

3125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Method of Continuous Variations: Applications of Job Plots to the Study of Molecular Associations in Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11998-12013.	7.2	516
2	Is N,N,N',N'-tetramethylethylenediamine a good ligand for lithium?. <i>Accounts of Chemical Research</i> , 1992, 25, 448-454.	7.6	295
3	Solution structures of lithium dialkylamides and related N-lithiated species: results from lithium-6-nitrogen-15 double labeling experiments. <i>Accounts of Chemical Research</i> , 1993, 26, 227-234.	7.6	234
4	Lithium Diisopropylamide: Solution Kinetics and Implications for Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3002-3017.	7.2	181
5	Lithium Hexamethyldisilazide: A View of Lithium Ion Solvation through a Glass-Bottom Boat. <i>Accounts of Chemical Research</i> , 1999, 32, 1035-1042.	7.6	169
6	Lithium Ephedrate-Mediated Addition of a Lithium Acetylide to a Ketone: Solution Structures and Relative Reactivities of Mixed Aggregates Underlying the High Enantioselectivities. <i>Journal of the American Chemical Society</i> , 1998, 120, 2028-2038.	6.6	159
7	Mixed aggregation of lithium enolates and lithium halides with lithium 2,2,6,6-tetramethylpiperidide (LiTMP). <i>Journal of the American Chemical Society</i> , 1991, 113, 9575-9585.	6.6	130
8	Ethereal Solvation of Lithium Hexamethyldisilazide: Unexpected Relationships of Solvation Number, Solvation Energy, and Aggregation State. <i>Journal of the American Chemical Society</i> , 1995, 117, 9863-9874.	6.6	113
9	Structure and reactivity of lithium diisopropylamide in the presence of N,N,N',N'-tetramethylethylenediamine. <i>Journal of the American Chemical Society</i> , 1992, 114, 5100-5110.	6.6	112
10	The structure of lithium tetramethylpiperidide and lithium diisopropylamide in the presence of hexamethylphosphoramide: structure-dependent distribution of cyclic and open dimers, ion triplets, and monomers. <i>Journal of the American Chemical Society</i> , 1991, 113, 5751-5757.	6.6	107
11	Lithium Diisopropylamide-Mediated Ortholithiations: Lithium Chloride Catalysis. <i>Journal of Organic Chemistry</i> , 2009, 74, 2231-2233.	1.7	107
12	Aren-BuLi/TMEDA-Mediated Arene Ortholithiations Directed? Substituent-Dependent Rates, Substituent-Independent Mechanisms. <i>Journal of the American Chemical Society</i> , 2000, 122, 8640-8647.	6.6	104
13	Structure of lithium hexamethyldisilazide in the presence of hexamethylphosphoramide. Spectroscopic and computational studies of monomers, dimers, and triple ions. <i>Journal of the American Chemical Society</i> , 1993, 115, 3475-3483.	6.6	98
14	Structure and reactivity of lithium diisopropylamide (LDA) in hydrocarbon solutions. Formation of unsolvated ketone, ester, and carboxamide enolates. <i>Journal of Organic Chemistry</i> , 1991, 56, 4435-4439.	1.7	94
15	Lithium Ion Solvation: Amine and Unsaturated Hydrocarbon Solvates of Lithium Hexamethyldisilazide (LiHMDS). <i>Journal of the American Chemical Society</i> , 1996, 118, 2217-2225.	6.6	91
16	Determination of structures of solvated lithium dialkylamides by semiempirical (MNDO) methods. Comparison of theory and experiment. <i>Journal of the American Chemical Society</i> , 1992, 114, 2112-2121.	6.6	88
17	Lithium Diisopropylamide Solvated by Monodentate and Bidentate Ligands: Solution Structures and Ligand Binding Constants. <i>Journal of the American Chemical Society</i> , 1997, 119, 5567-5572.	6.6	88
18	Highly Enantioselective 1,2-Addition of Lithium Acetylide-Ephedrate Complexes: Spectroscopic Evidence for Reaction Proceeding via a 2:2 Tetramer, and X-ray Characterization of Related Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 11212-11218.	6.6	85

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19	Lithium Diisopropylamide-Mediated Enolizations: Solvent-Independent Rates, Solvent-Dependent Mechanisms. <i>Journal of the American Chemical Society</i> , 2000, 122, 2452-2458.	6.6	84
20	Polydentate Amine and Ether Solvates of Lithium Hexamethyldisilazide (LiHMDS): Relationship of Ligand Structure, Relative Solvation Energy, and Aggregation State. <i>Journal of the American Chemical Society</i> , 1996, 118, 10707-10718.	6.6	83
21	Structure and reactivity of lithium diphenylamide. Role of aggregates, mixed aggregates, monomers, and free ions on the rates and selectivities of N-alkylation and E2 elimination. <i>Journal of the American Chemical Society</i> , 1988, 110, 5524-5533.	6.6	79
22	Solid-state and solution studies of lithiated 2-carbomethoxycyclohexanone dimethylhydrazone and lithiated cyclohexanone phenylimine. <i>Journal of the American Chemical Society</i> , 1986, 108, 3415-3422.	6.6	75
23	Structure and reactivity of lithium diisopropylamide (LDA). The consequences of aggregation and solvation during the metalation of an N,N-dimethylhydrazone. <i>Journal of the American Chemical Society</i> , 1989, 111, 6772-6778.	6.6	73
24	Consequences of Correlated Solvation on the Structures and Reactivities of RLi-Diamine Complexes: 1,2-Addition and $\beta$ -Lithiation Reactions of Imines by TMEDA-Solvated n-Butyllithium and Phenyllithium. <i>Journal of the American Chemical Society</i> , 2002, 124, 264-271.	6.6	73
25	Mechanism of Lithium Dialkylamide-Mediated Ketone and Imine Deprotonations: An MNDO Study of Monomer and Open Dimer Pathways. <i>Journal of the American Chemical Society</i> , 1995, 117, 2166-2178.	6.6	72
26	Lithium Enolates of Simple Ketones: Structure Determination Using the Method of Continuous Variation. <i>Journal of the American Chemical Society</i> , 2008, 130, 4859-4868.	6.6	72
27	1,4-Addition of Lithium Diisopropylamide to Unsaturated Esters: Role of Rate-Limiting Deaggregation, Autocatalysis, Lithium Chloride Catalysis, and Other Mixed Aggregation Effects. <i>Journal of the American Chemical Society</i> , 2010, 132, 15610-15623.	6.6	72
28	Binding of Diamines to n-Butyllithium Dimers: Relative Solvation Energies and Evidence of Correlated Solvation. <i>Journal of the American Chemical Society</i> , 1998, 120, 5810-5811.	6.6	70
29	Lithium Dialkylamide Mixed Aggregation: An NMR Spectroscopic Study of the Influence of Hexamethylphosphoramide (HMPA). <i>Journal of the American Chemical Society</i> , 1994, 116, 9198-9202.	6.6	68
30	Lithium Diisopropylamide-Mediated Ortholithiation and Anionic Fries Rearrangement of Aryl Carbamates: A Role of Aggregates and Mixed Aggregates. <i>Journal of the American Chemical Society</i> , 2006, 128, 13753-13760.	6.6	67
31	Lithium Diisopropylamide-Mediated Enolization: Catalysis by Hemilabile Ligands. <i>Journal of the American Chemical Society</i> , 2006, 128, 10326-10336.	6.6	66
32	Lithium diisopropylamide mixed aggregates: structures and consequences on the stereochemistry of ketone enolate formation. <i>Journal of the American Chemical Society</i> , 1991, 113, 5053-5055.	6.6	65
33	Regioselective Lithium Diisopropylamide-Mediated Ortholithiation of 1-Chloro-3-(trifluoromethyl)benzene: Role of Autocatalysis, Lithium Chloride Catalysis, and Reversibility. <i>Journal of the American Chemical Society</i> , 2011, 133, 7135-7151.	6.6	65
34	Highly Stereoselective Synthesis of Tetrasubstituted Acyclic All-Carbon Olefins via Enol Tosylation and Suzuki-Miyaura Coupling. <i>Journal of the American Chemical Society</i> , 2017, 139, 10777-10783.	6.6	65
35	Ortholithiation of Anisole by n-BuLi-TMEDA: Reaction via Disolvated Dimers. <i>Journal of the American Chemical Society</i> , 1998, 120, 421-422.	6.6	64
36	Lithium Diisopropylamide-Mediated Enolizations: Solvent-Dependent Mixed Aggregation Effects. <i>Journal of the American Chemical Society</i> , 2000, 122, 2459-2463.	6.6	64

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37	Lithium Hexamethyldisilazide-Mediated Enolizations: Influence of Triethylamine on E/Z Selectivities and Enolate Reactivities. <i>Journal of the American Chemical Society</i> , 2008, 130, 8726-8732.	6.6	64
38	BF <sub>3</sub> -Mediated Addition of Lithium Phenylacetylide to an Imine: Correlations of Structures and Reactivities. BF <sub>3</sub> ·R <sub>3</sub> N Derivatives as Substitutes for BF <sub>3</sub> ·Et <sub>2</sub> O. <i>Journal of the American Chemical Society</i> , 2000, 122, 11084-11089.	6.6	61
39	n-Butyllithium/N,N,N',N'-Tetramethylethylenediamine-Mediated Ortholithiations of Aryl Oxazolines: A Substrate-Dependent Mechanisms. <i>Journal of the American Chemical Society</i> , 2007, 129, 2259-2268.	6.6	55
40	Lithium Diisopropylamide: Oligomer Structures at Low Ligand Concentrations. <i>Journal of the American Chemical Society</i> , 2001, 123, 199-202.	6.6	54
41	Anionic Snieckus-Fries Rearrangement: Solvent Effects and Role of Mixed Aggregates. <i>Journal of the American Chemical Society</i> , 2008, 130, 13709-13717.	6.6	53
42	Lithium Enolates in the Enantioselective Construction of Tetrasubstituted Carbon Centers with Chiral Lithium Amides as Noncovalent Stereodirecting Auxiliaries. <i>Journal of the American Chemical Society</i> , 2017, 139, 527-533.	6.6	53
43	Substituent effects on the stereochemistry of substituted cyclohexanone dimethylhydrazone alkylations. An x-ray crystal structure of lithiated cyclohexanone dimethylhydrazone. <i>Journal of the American Chemical Society</i> , 1984, 106, 4865-4869.	6.6	52
44	Solvent- and substrate-dependent rates of imine metalations by lithium diisopropylamide: understanding the mechanisms underlying k <sub>rel</sub> . <i>Journal of the American Chemical Society</i> , 1993, 115, 8008-8018.	6.6	52
45	Diastereoselective Alkylation of $\hat{1}^2$ -Amino Esters: Structural and Rate Studies Reveal Alkylations of Hexameric Lithium Enolates. <i>Journal of the American Chemical Society</i> , 2004, 126, 16559-16568.	6.6	52
46	Hemi-Labile Ligands in Organolithium Chemistry: Rate Studies of the LDA-Mediated $\hat{1}^{\pm}$ - and $\hat{1}^2$ -Metalations of Epoxides. <i>Journal of the American Chemical Society</i> , 1999, 121, 11114-11121.	6.6	51
47	Lithium Hexamethyldisilazide/Triethylamine-Mediated Ketone Enolization: A Remarkable Rate Accelerations Stemming from a Dimer-Based Mechanism. <i>Journal of the American Chemical Society</i> , 2003, 125, 4008-4009.	6.6	51
48	Enediolate-Dilithium Amide Mixed Aggregates in the Enantioselective Alkylation of Arylacetic Acids: Structural Studies and a Stereochemical Model. <i>Journal of the American Chemical Society</i> , 2013, 135, 16853-16864.	6.6	51
49	<sup>15</sup> N, <sup>13</sup> C, <sup>6</sup> Li NMR spectroscopic studies and colligative measurements of lithiated cyclohexanone phenylimine solvated by tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 1987, 109, 7466-7472.	6.6	50
50	Hemilabile Ligands in Organolithium Chemistry: Substituent Effects on Lithium Ion Chelation. <i>Journal of the American Chemical Society</i> , 2003, 125, 15376-15387.	6.6	50
51	Methode der kontinuierlichen Variation: Verwendung von Job-Plots zur Untersuchung molekularer Assoziationen in der metallorganischen Chemie. <i>Angewandte Chemie</i> , 2013, 125, 12218-12234.	1.6	50
52	Ketone Enolization by Lithium Hexamethyldisilazide: Structural and Rate Studies of the Accelerating Effects of Trialkylamines. <i>Journal of the American Chemical Society</i> , 2003, 125, 14411-14424.	6.6	49
53	Mechanism of Lithium Diisopropylamide-Mediated Ester Deprotonation: The Role of Disolvated Monomers. <i>Journal of the American Chemical Society</i> , 1997, 119, 4765-4766.	6.6	47
54	Lithium 2,2,6,6-Tetramethylpiperidide-Mediated $\hat{1}^{\pm}$ - and $\hat{1}^2$ -Lithiations of Epoxides: Solvent-Dependent Mechanisms. <i>Journal of the American Chemical Society</i> , 2003, 125, 15893-15901.	6.6	47

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55	Solvation of Lithium Hexamethyldisilazide by N,N-Dimethylethylenediamine: Effects of Chelation on Competitive Solvation and Mixed Aggregation. <i>Journal of the American Chemical Society</i> , 1996, 118, 3529-3530.	6.6	46
56	BF <sub>3</sub> -Mediated Additions of Organolithiums to Ketimines: X-ray Crystal Structures of BF <sub>3</sub> ~Ketimine Complexes. <i>Journal of Organic Chemistry</i> , 2005, 70, 2335-2337.	1.7	46
57	Solution Structures of Lithium Monoalkylamides (RNHLi). <i>Organometallics</i> , 1999, 18, 2981-2987.	1.1	44
58	Structural and Rate Studies of the 1,2-Additions of Lithium Phenylacetylide to Lithiated Quinazolinones: Influence of Mixed Aggregates on the Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2004, 126, 5427-5435.	6.6	44
59	Chelation-Based Stabilization of the Transition Structure in a Lithium Diisopropylamide Mediated Dehydrobromination: Avoiding the "Universal Ground State" Assumption. <i>Journal of the American Chemical Society</i> , 1997, 119, 5573-5582.	6.6	42
60	Sodium Diisopropylamide in N,N-Dimethylethylamine: Reactivity, Selectivity, and Synthetic Utility. <i>Journal of Organic Chemistry</i> , 2016, 81, 11312-11315.	1.7	42
61	Sodium Diisopropylamide: Aggregation, Solvation, and Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 7921-7930.	6.6	42
62	NMR Spectroscopic Investigations of Mixed Aggregates Underlying Highly Enantioselective 1,2-Additions of Lithium Cyclopropylacetylide to Quinazolinones. <i>Journal of the American Chemical Society</i> , 2001, 123, 9135-9143.	6.6	41
63	Lithium Phenolates Solvated by Tetrahydrofuran and 1,2-Dimethoxyethane: Structure Determination Using the Method of Continuous Variation. <i>Journal of the American Chemical Society</i> , 2009, 131, 13142-13154.	6.6	39
64	On the origin of the stereoselectivity of hydrazone alkylations. Investigation of aggregation effects and solution kinetics. <i>Journal of the American Chemical Society</i> , 1985, 107, 2078-2082.	6.6	37
65	Structure and Reactivity of Lithium Diisopropylamide Solvated by Polyamines: Evidence of Monomer- and Dimer-Based Dehydrohalogenations. <i>Journal of the American Chemical Society</i> , 1998, 120, 4081-4086.	6.6	37
66	Solution Structures and Reactivities of the Mixed Aggregates Derived from n-Butyllithium and Vicinal Amino Alkoxides. <i>Journal of the American Chemical Society</i> , 2001, 123, 8039-8046.	6.6	37
67	Synthesis of a 7-Azaindole by Chichibabin Cyclization: Reversible Base-Mediated Dimerization of 3-Picolines. <i>Journal of Organic Chemistry</i> , 2008, 73, 9610-9618.	1.7	37
68	Lithium-6, carbon-13, and nitrogen-15 NMR spectroscopic studies of lithium dialkylamides. Solution structure of lithium isopropylcyclohexylamide (LICA) in tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 1988, 110, 2658-2660.	6.6	35
69	Lithium Diisopropylamide-Mediated Lithiations of Imines: Insights into Highly Structure-Dependent Rates and Selectivities. <i>Journal of the American Chemical Society</i> , 2003, 125, 15114-15127.	6.6	34
70	Structure of n-Butyllithium in Mixtures of Ethers and Diamines: Influence of Mixed Solvation on 1,2-Additions to Imines. <i>Journal of the American Chemical Society</i> , 2006, 128, 9355-9360.	6.6	34
71	Lithium Diisopropylamide-Mediated Reactions of Imines, Unsaturated Esters, Epoxides, and Aryl Carbamates: Influence of Hexamethylphosphoramide and Ethereal Cosolvents on Reaction Mechanisms. <i>Journal of the American Chemical Society</i> , 2007, 129, 14818-14825.	6.6	34
72	Sodium Diisopropylamide in Tetrahydrofuran: Selectivities, Rates, and Mechanisms of Alkene Isomerizations and Diene Metalations. <i>Journal of the American Chemical Society</i> , 2017, 139, 11544-11549.	6.6	34

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73	Metalation of imines by lithium diisopropylamide solvated by N,N,N',N'-tetramethylethylenediamine: evidence for solvent-free open dimer reactive intermediates. <i>Journal of the American Chemical Society</i> , 1993, 115, 789-790.	6.6	33
74	Structural and Rate Studies of the Formation of Substituted Benzyne. <i>Journal of the American Chemical Society</i> , 2008, 130, 3406-3412.	6.6	33
75	Solution Structures of the Mixed Aggregates Derived from Lithium Acetylides and a Camphor-Derived Amino Alkoxide. <i>Journal of Organic Chemistry</i> , 2001, 66, 6291-6298.	1.7	32
76	Lithium Diisopropylamide Solvated by Hexamethylphosphoramide: Substrate-Dependent Mechanisms for Dehydrobrominations. <i>Journal of the American Chemical Society</i> , 2006, 128, 15399-15404.	6.6	32
77	Autocatalysis in Lithium Diisopropylamide-Mediated Ortholithiations. <i>Journal of the American Chemical Society</i> , 2008, 130, 18008-18017.	6.6	32
78	Solution Structures of Lithium Enolates, Phenolates, Carboxylates, and Alkoxides in the Presence of N,N,N',N'-Tetramethylethylenediamine: A Prevalence of Cyclic Dimers. <i>Journal of Organic Chemistry</i> , 2008, 73, 7743-7747.	1.7	32
79	Reaction of Ketones with Lithium Hexamethyldisilazide: Competitive Enolizations and 1,2-Additions. <i>Journal of the American Chemical Society</i> , 2004, 126, 3113-3118.	6.6	31
80	Formation of Benzyne from 2,6-Dihaloarylolithiums: Mechanistic Basis of the Regioselectivity. <i>Journal of the American Chemical Society</i> , 2004, 126, 14700-14701.	6.6	31
81	Evans Enolates: Solution Structures of Lithiated Oxazolidinone-Derived Enolates. <i>Journal of the American Chemical Society</i> , 2015, 137, 13087-13095.	6.6	30
82	Computational Studies of Lithium Diisopropylamide Deaggregation. <i>Journal of Organic Chemistry</i> , 2011, 76, 7985-7993.	1.7	29
83	Structure, Reactivity, and Synthetic Applications of Sodium Diisopropylamide. <i>Synthesis</i> , 2020, 52, 1478-1497.	1.2	29
84	Reversible Enolization of $\beta$ -Amino Carboxamides by Lithium Hexamethyldisilazide. <i>Journal of the American Chemical Society</i> , 2005, 127, 5655-5661.	6.6	28
85	Experimental Characterization and Computational Study of Unique C,N-Chelated Lithium Dianions. <i>Journal of the American Chemical Society</i> , 2010, 132, 13212-13213.	6.6	28
86	Characterization of $\beta$ -Amino Ester Enolates as Hexamers via $^6\text{Li}$ NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 5938-5939.	6.6	27
87	Lithium Hexamethyldisilazide-Mediated Enolization of Highly Substituted Aryl Ketones: Structural and Mechanistic Basis of the $E/Z$ Selectivities. <i>Journal of the American Chemical Society</i> , 2017, 139, 12182-12189.	6.6	27
88	Solution Structure of Lithium Dicyclohexylamide ( $\text{Cy}_2\text{NLi}$ ) and Related Mixed Aggregates: A Comparison with Lithium Diisopropylamide. <i>Journal of Organic Chemistry</i> , 1996, 61, 8674-8676.	1.7	25
89	Lithium Hexamethyldisilazide-Mediated Enolizations: Influence of Chelating Ligands and Hydrocarbon Cosolvents on the Rates and Mechanisms. <i>Journal of the American Chemical Society</i> , 2007, 129, 12023-12031.	6.6	25
90	Lithium Diisopropylamide: Nonequilibrium Kinetics and Lessons Learned about Rate Limitation. <i>Journal of Organic Chemistry</i> , 2017, 82, 4513-4532.	1.7	24

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91	$^6\text{Li}$ / $^{15}\text{N}$ heteronuclear multiple quantum correlation (HMQC) spectroscopy: Application to the structure determination of lithium 2,2,6,6-tetramethylpiperidide mixed aggregates. <i>Magnetic Resonance in Chemistry</i> , 1992, 30, 855-859.	1.1	23
92	Structure- $\leftrightarrow$ Reactivity Relationships in Lithiated Evans Enolates: Influence of Aggregation and Solvation on the Stereochemistry and Mechanism of Aldol Additions. <i>Journal of the American Chemical Society</i> , 2016, 138, 345-355.	6.6	23
93	Sodium Diisopropylamide in Tetrahydrofuran: Selectivities, Rates, and Mechanisms of Arene Metalations. <i>Journal of the American Chemical Society</i> , 2017, 139, 15197-15204.	6.6	23
94	Enantioselective Alkylation of 2-Alkylpyridines Controlled by Organolithium Aggregation. <i>Journal of the American Chemical Society</i> , 2019, 141, 15024-15028.	6.6	23
95	Aggregation and Solvation of Sodium Hexamethyldisilazide: Across the Solvent Spectrum. <i>Journal of Organic Chemistry</i> , 2021, 86, 2406-2422.	1.7	23
96	Structures of $\beta^2$ -Amino Ester Enolates: New Strategies Using the Method of Continuous Variation. <i>Journal of the American Chemical Society</i> , 2008, 130, 17334-17341.	6.6	22
97	Lithium Diisopropylamide-Mediated Ortholithiation of 2-Fluoropyridines: Rates, Mechanisms, and the Role of Autocatalysis. <i>Journal of Organic Chemistry</i> , 2013, 78, 4214-4230.	1.7	22
98	Structures and Reactivities of Sodiated Evans Enolates: Role of Solvation and Mixed Aggregation on the Stereochemistry and Mechanism of Alkylations. <i>Journal of the American Chemical Society</i> , 2019, 141, 388-401.	6.6	22
99	Conversion of ketones to trisubstituted olefins under neutral conditions. <i>Tetrahedron Letters</i> , 1984, 25, 271-272.	0.7	21
100	Addition of <i>n</i> -Butyllithium to an Aldimine: $\leftrightarrow$ Role of Chelation, Aggregation, and Cooperative Solvation. <i>Journal of the American Chemical Society</i> , 2005, 127, 10820-10821.	6.6	20
101	Mechanism of Lithium Diisopropylamide-Mediated Substitution of 2,6-Difluoropyridine. <i>Journal of the American Chemical Society</i> , 2010, 132, 6361-6365.	6.6	19
102	Method of Continuous Variation: Characterization of Alkali Metal Enolates Using $^1\text{H}$ and $^{19}\text{F}$ NMR Spectroscopies. <i>Journal of the American Chemical Society</i> , 2014, 136, 9710-9718.	6.6	19
103	Case for Lithium Tetramethylpiperidide-Mediated Ortholithiations: Reactivity and Mechanisms. <i>Journal of the American Chemical Society</i> , 2018, 140, 4877-4883.	6.6	19
104	Sodium Hexamethyldisilazide: Using $^{15}\text{N}$ - $^{29}\text{Si}$ Scalar Coupling to Determine Aggregation and Solvation States. <i>Journal of the American Chemical Society</i> , 2020, 142, 6852-6855.	6.6	19
105	Aryl Carbamates: Mechanisms of Orthosodiations and Snieckus- $\leftrightarrow$ Fries Rearrangements. <i>Journal of Organic Chemistry</i> , 2019, 84, 9051-9057.	1.7	18
106	Lithium Hexamethyldisilazide-Mediated Ketone Enolization: $\leftrightarrow$ The Influence of Hindered Dialkyl Ethers and Isostructural Dialkylamines on Reaction Rates and Mechanisms. <i>Journal of Organic Chemistry</i> , 2004, 69, 242-249.	1.7	17
107	Solid-State and Solution Structures of Glycinimine-Derived Lithium Enolates. <i>Journal of the American Chemical Society</i> , 2015, 137, 14446-14455.	6.6	17
108	Ketone Enolization with Sodium Hexamethyldisilazide: Solvent- and Substrate-Dependent $\leftrightarrow$ Selectivity and Affiliated Mechanisms. <i>Journal of the American Chemical Society</i> , 2021, 143, 17452-17464.	6.6	17

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109	Lithium Amino Alkoxide—Evans Enolate Mixed Aggregates: Aldol Addition with Matched and Mismatched Stereocontrol. <i>Journal of the American Chemical Society</i> , 2018, 140, 3077-3090.	6.6	16
110	Lithium Hexamethyldisilazide-Mediated Enolization of Acylated Oxazolidinones: Solvent, Cosolvent, and Isotope Effects on Competing Monomer- and Dimer-Based Pathways. <i>Journal of the American Chemical Society</i> , 2017, 139, 1233-1244.	6.6	15
111	Sodium Diisopropylamide-Mediated Dehydrohalogenations: Influence of Primary- and Secondary-Shell Solvation. <i>Journal of Organic Chemistry</i> , 2019, 84, 10860-10869.	1.7	15
112	Disodium Salts of Pseudoephedrine-Derived Myers Enolates: Stereoselectivity and Mechanism of Alkylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 16865-16876.	6.6	15
113	Solution Structures of Lithium Amino Alkoxides Used in Highly Enantioselective 1,2-Additions. <i>Journal of the American Chemical Society</i> , 2014, 136, 2885-2891.	6.6	14
114	Evans Enolates: Structures and Mechanisms Underlying the Aldol Addition of Oxazolidinone-Derived Boron Enolates. <i>Journal of Organic Chemistry</i> , 2017, 82, 7595-7601.	1.7	14
115	Azaaldol Condensation of a Lithium Enolate Solvated by N,N,N',N'-Tetramethylethylenediamine: Dimer-Based 1,2-Addition to Imines. <i>Journal of the American Chemical Society</i> , 2013, 135, 4103-4109.	6.6	13
116	Lithium Diisopropylamide-Mediated Lithiation of 1,4-Difluorobenzene under Nonequilibrium Conditions: Role of Monomer-, Dimer-, and Tetramer-Based Intermediates and Lessons about Rate Limitation. <i>Journal of Organic Chemistry</i> , 2014, 79, 11885-11902.	1.7	13
117	Mechanism of Lithium Diisopropylamide-Mediated Ortholithiation of 1,4-Bis(trifluoromethyl)benzene under Nonequilibrium Conditions: Condition-Dependent Rate Limitation and Lithium Chloride-Catalyzed Inhibition. <i>Journal of the American Chemical Society</i> , 2015, 137, 6292-6303.	6.6	13
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