

# David B Collum

## List of Publications by Citations

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128  
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46  
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70  
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130  
ext. papers

6,259  
ext. citations

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L-index

#	Paper	IF	Citations
128	Method of continuous variations: applications of job plots to the study of molecular associations in organometallic chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11998-2013	16.4	377
127	Is N,N,N',N'-tetramethylethylenediamine a good ligand for lithium?. <i>Accounts of Chemical Research</i> , <b>1992</b> , 25, 448-454	24.3	254
126	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> , <b>1993</b> , 26, 227-234	24.3	187
125	Lithium diisopropylamide: solution kinetics and implications for organic synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3002-17	16.4	170
124	Lithium Hexamethyldisilazide: A View of Lithium Ion Solvation through a Glass-Bottom Boat. <i>Accounts of Chemical Research</i> , <b>1999</b> , 32, 1035-1042	24.3	146
123	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> , <b>1998</b> , 120, 2028-2038	16.4	142
122	Mixed aggregation of lithium enolates and lithium halides with lithium 2,2,6,6-tetramethylpiperidide (LiTMP). <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 9575-9585	16.4	106
121	Ethereal Solvation of Lithium Hexamethyldisilazide: Unexpected Relationships of Solvation Number, Solvation Energy, and Aggregation State. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 9863-9874	16.4	103
120	Structure and reactivity of lithium diisopropylamide in the presence of N,N,N',N'-tetramethylethylenediamine. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 5100-5110	16.4	101
119	Lithium diisopropylamide-mediated ortholithiations: lithium chloride catalysis. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 2231-3	4.2	93
118	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> , <b>1991</b> , 113, 5751-5757	16.4	91
117	Are n-BuLi/TMEDA-Mediated Arene Ortholithiations Directed? Substituent-Dependent Rates, Substituent-Independent Mechanisms. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 8640-8647	16.4	89
116	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> , <b>1993</b> , 115, 3475-3483	16.4	89
115	Lithium Diisopropylamide Solvated by Monodentate and Bidentate Ligands: Solution Structures and Ligand Binding Constants. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5567-5572	16.4	86
114	Lithium Ion Solvation: Amine and Unsaturated Hydrocarbon Solvates of Lithium Hexamethyldisilazide (LiHMDS). <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 2217-2225	16.4	79
113	Structure and reactivity of lithium diisopropylamide (LDA) in hydrocarbon solutions. Formation of unsolvated ketone, ester, and carboxamide enolates. <i>Journal of Organic Chemistry</i> , <b>1991</b> , 56, 4435-4439	4.2	79
112	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> , <b>2000</b> , 122, 11212-11218	16.4	78

111	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> , <b>1996</b> , 118, 10707-10718	16.4	77
110	Determination of structures of solvated lithium dialkylamides by semiempirical (MNDO) methods. Comparison of theory and experiment. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 2112-2121	16.4	75
109	Lithium Diisopropylamide-Mediated Enolizations: Solvent-Independent Rates, Solvent-Dependent Mechanisms. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2452-2458	16.4	72
108	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> , <b>1988</b> , 110, 5524-5533	16.4	70
107	Consequences of correlated solvation on the structures and reactivities of RLi-diamine complexes: 1,2-addition and alpha-lithiation reactions of imines by TMEDA-solvated n-butyllithium and phenyllithium. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 264-71	16.4	66
106	Solid-state and solution studies of lithiated 2-carbomethoxycyclohexanone dimethylhydrazone and lithiated cyclohexanone phenylimine. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 3415-3422	16.4	66
105	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> , <b>2010</b> , 132, 15610-23	16.4	65
104	Lithium diisopropylamide-mediated ortholithiation and anionic fries rearrangement of aryl carbamates: role of aggregates and mixed aggregates. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 13753-60	16.4	65
103	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> , <b>2011</b> , 133, 7135-51	16.4	64
102	Lithium enolates of simple ketones: structure determination using the method of continuous variation. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4859-68	16.4	64
101	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> , <b>1989</b> , 111, 6772-6778	16.4	64
100	Lithium diisopropylamide-mediated enolization: catalysis by hemilabile ligands. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10326-36	16.4	63
99	Lithium hexamethyldisilazide-mediated enolizations: influence of triethylamine on E/Z selectivities and enolate reactivities. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8726-32	16.4	60
98	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> , <b>1995</b> , 117, 2166-2178	16.4	59
97	Binding of Diamines to n-Butyllithium Dimers: Relative Solvation Energies and Evidence of Correlated Solvation. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 5810-5811	16.4	58
96	Lithium Dialkylamide Mixed Aggregation: An NMR Spectroscopic Study of the Influence of Hexamethylphosphoramide (HMPA). <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9198-9202	16.4	57
95	Lithium Diisopropylamide-Mediated Enolizations: Solvent-Dependent Mixed Aggregation Effects. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2459-2463	16.4	56
94	Ortholithiation of Anisole by n-BuLi/TMEDA: Reaction via Disolvated Dimers. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 421-422	16.4	54

- 93 BF<sub>3</sub>-Mediated Addition of Lithium Phenylacetylide to an Imine: Correlations of Structures and Reactivities. BF<sub>3</sub>IR<sub>3</sub>N Derivatives as Substitutes for BF<sub>3</sub>Et<sub>2</sub>O. *Journal of the American Chemical Society*, **2000**, 122, 11084-11089 16.4 53
- 92 Highly Stereoselective Synthesis of Tetrasubstituted Acyclic All-Carbon Olefins via Enol Tosylation and Suzuki-Miyaura Coupling. *Journal of the American Chemical Society*, **2017**, 139, 10777-10783 16.4 52
- 91 Lithium diisopropylamide mixed aggregates: structures and consequences on the stereochemistry of ketone enolate formation. *Journal of the American Chemical Society*, **1991**, 113, 5053-5055 16.4 51
- 90 Lithium diisopropylamide: oligomer structures at low ligand concentrations. *Journal of the American Chemical Society*, **2001**, 123, 199-202 16.4 50
- 89 Anionic Snieckus-Fries rearrangement: solvent effects and role of mixed aggregates. *Journal of the American Chemical Society*, **2008**, 130, 13709-17 16.4 49
- 88 Diastereoselective alkylation of beta-amino esters: structural and rate studies reveal alkylations of hexameric lithium enolates. *Journal of the American Chemical Society*, **2004**, 126, 16559-68 16.4 48
- 87 Hemilabile ligands in organolithium chemistry: substituent effects on lithium ion chelation. *Journal of the American Chemical Society*, **2003**, 125, 15376-87 16.4 48
- 86 Ketone enolization by lithium hexamethyldisilazide: structural and rate studies of the accelerating effects of trialkylamines. *Journal of the American Chemical Society*, **2003**, 125, 14411-24 16.4 47
- 85 Lithium 2,2,6,6-tetramethylpiperidide-mediated alpha- and beta-lithiations of epoxides: solvent-dependent mechanisms. *Journal of the American Chemical Society*, **2003**, 125, 15893-901 16.4 47
- 84 n-Butyllithium/N,N,N',N'-tetramethylethylenediamine-mediated ortholithiations of aryl oxazolines: substrate-dependent mechanisms. *Journal of the American Chemical Society*, **2007**, 129, 2259-68 16.4 46
- 83 Lithium hexamethyldisilazide/triethylamine-mediated ketone enolization: remarkable rate accelerations stemming from a dimer-based mechanism. *Journal of the American Chemical Society*, **2003**, 125, 4008-9 16.4 46
- 82 Hemi-Labile Ligands in Organolithium Chemistry: Rate Studies of the LDA-Mediated  $\alpha$  and  $\beta$  Metalations of Epoxides. *Journal of the American Chemical Society*, **1999**, 121, 11114-11121 16.4 45
- 81 Solvent- and substrate-dependent rates of imine metalations by lithium diisopropylamide: understanding the mechanisms underlying k<sub>rel</sub>. *Journal of the American Chemical Society*, **1993**, 115, 8008-8018 16.4 45
- 80 Structural and rate studies of the 1,2-additions of lithium phenylacetylide to lithiated quinazolinones: influence of mixed aggregates on the reaction mechanism. *Journal of the American Chemical Society*, **2004**, 126, 5427-35 16.4 44
- 79 Substituent effects on the stereochemistry of substituted cyclohexanone dimethylhydrazone alkylations. An x-ray crystal structure of lithiated cyclohexanone dimethylhydrazone. *Journal of the American Chemical Society*, **1984**, 106, 4865-4869 16.4 42
- 78 Mechanism of Lithium Diisopropylamide-Mediated Ester Deprotonation: The Role of Disolvated Monomers. *Journal of the American Chemical Society*, **1997**, 119, 4765-4766 16.4 41
- 77 Chelation-Based Stabilization of the Transition Structure in a Lithium Diisopropylamide Mediated Dehydrobromination: Avoiding the "Universal Ground State" Assumption. *Journal of the American Chemical Society*, **1997**, 119, 5573-5582 16.4 41
- 76 BF<sub>3</sub>-mediated additions of organolithiums to ketimines: X-ray crystal structures of BF<sub>3</sub>-ketimine complexes. *Journal of Organic Chemistry*, **2005**, 70, 2335-7 4.2 41

75	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> , <b>1996</b> , 118, 3529-3530	16.4	41
74	<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> , <b>1987</b> , 109, 7466-7472	16.4	40
73	Methode der kontinuierlichen Variation: Verwendung von Job-Plots zur Untersuchung molekularer Assoziationen in der metallorganischen Chemie. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12218-12234	3.6	39
72	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> , <b>2001</b> , 123, 9135-43	16.4	39
71	Solution Structures of Lithium Monoalkylamides (RNHLi). <i>Organometallics</i> , <b>1999</b> , 18, 2981-2987	3.8	38
70	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> , <b>2013</b> , 135, 16853-64	16.4	35
69	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> , <b>2009</b> , 131, 13142-54	16.4	35
68	Solution structures and reactivities of the mixed aggregates derived from n-butyllithium and vicinal amino alkoxides. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8039-46	16.4	35
67	Structural and rate studies of the formation of substituted benzyne. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3406-12	16.4	33
66	Structure and Reactivity of Lithium Diisopropylamide Solvated by Polyamines: Evidence of Monomer- and Dimer-Based Dehydrohalogenations. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4081-4086	16.4	33
65	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> , <b>2017</b> , 139, 527-533	16.4	32
64	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> , <b>2006</b> , 128, 9355-60	16.4	32
63	Solution structures of the mixed aggregates derived from lithium acetylides and a camphor-derived amino alkoxide. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 6291-8	4.2	32
62	Sodium Diisopropylamide: Aggregation, Solvation, and Stability. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7921-7930	16.4	31
61	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> , <b>2007</b> , 129, 14818-25	16.4	31
60	Lithium diisopropylamide solvated by hexamethylphosphoramide: substrate-dependent mechanisms for dehydrobrominations. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15399-404	16.4	31
59	Synthesis of a 7-azaindole by chichibabin cyclization: reversible base-mediated dimerization of 3-picolines. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 9610-8	4.2	30
58	Autocatalysis in lithium diisopropylamide-mediated ortholithiations. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 18008-17	16.4	30

57	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> , <b>2008</b> , 73, 7743-7	4.2	30
56	Reaction of ketones with lithium hexamethyldisilazide: competitive enolizations and 1,2-additions. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3113-8	16.4	30
55	Lithium diisopropylamide-mediated lithiations of imines: insights into highly structure-dependent rates and selectivities. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 15114-27	16.4	30
54	On the origin of the stereoselectivity of hydrazone alkylations. Investigation of aggregation effects and solution kinetics. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 2078-2082	16.4	30
53	Computational studies of lithium diisopropylamide deaggregation. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 7985-93	4.2	29
52	Formation of benzyne from 2,6-dihaloarylolithiums: mechanistic basis of the regioselectivity. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 14700-1	16.4	29
51	Sodium Diisopropylamide in N,N-Dimethylethylamine: Reactivity, Selectivity, and Synthetic Utility. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 11312-11315	4.2	27
50	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> , <b>1988</b> , 110, 2658-2660	16.4	27
49	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> , <b>1993</b> , 115, 789-790	16.4	26
48	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> , <b>2017</b> , 139, 12182-12189	16.4	25
47	Experimental characterization and computational study of unique C,N-chelated lithium dianions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13212-3	16.4	25
46	Evans Enolates: Solution Structures of Lithiated Oxazolidinone-Derived Enolates. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13087-95	16.4	24
45	Reversible enolization of beta-amino carboxamides by lithium hexamethyldisilazide. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5655-61	16.4	24
44	Lithium hexamethyldisilazide-mediated enolizations: influence of chelating ligands and hydrocarbon cosolvents on the rates and mechanisms. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12023-31	16.4	23
43	Characterization of beta-amino ester enolates as hexamers via 6Li NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5938-9	16.4	23
42	Sodium Diisopropylamide in Tetrahydrofuran: Selectivities, Rates, and Mechanisms of Alkene Isomerizations and Diene Metalations. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11544-11549	16.4	22
41	6Li/15N 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> , <b>1992</b> , 30, 855-859	2.1	22
40	Structures of beta-amino ester enolates: new strategies using the method of continuous variation. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17334-41	16.4	21

39	Solution Structure of Lithium Dicyclohexylamide (Cy <sub>2</sub> NLi) and Related Mixed Aggregates: Comparison with Lithium Diisopropylamide. <i>Journal of Organic Chemistry</i> , <b>1996</b> , 61, 8674-8676	4.2	21
38	Addition of n-butyllithium to an aldimine: role of chelation, aggregation, and cooperative solvation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10820-1	16.4	20
37	Structure-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> , <b>2016</b> , 138, 345-55	16.4	19
36	Lithium diisopropylamide-mediated ortholithiation of 2-fluoropyridines: rates, mechanisms, and the role of autocatalysis. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 4214-30	4.2	19
35	Lithium Diisopropylamide: Nonequilibrium Kinetics and Lessons Learned about Rate Limitation. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 4513-4532	4.2	17
34	Mechanism of lithium diisopropylamide-mediated substitution of 2,6-difluoropyridine. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6361-5	16.4	17
33	Lithium hexamethyldisilazide-mediated ketone enolization: the influence of hindered dialkyl ethers and isostructural dialkylamines on reaction rates and mechanisms. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 242-9	4.2	16
32	Conversion of ketones to trisubstituted olefins under neutral conditions. <i>Tetrahedron Letters</i> , <b>1984</b> , 25, 271-272	2	16
31	Method of continuous variation: characterization of alkali metal enolates using <sup>1</sup> H and <sup>19</sup> F NMR spectroscopies. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9710-8	16.4	15
30	Solid-State and Solution Structures of Glycinimine-Derived Lithium Enolates. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14446-55	16.4	15
29	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> , <b>2019</b> , 141, 388-401	16.4	15
28	Sodium Diisopropylamide in Tetrahydrofuran: Selectivities, Rates, and Mechanisms of Arene Metalations. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15197-15204	16.4	13
27	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> , <b>2013</b> , 135, 4103-9	16.4	13
26	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> , <b>2017</b> , 139, 1233-1244	16.4	12
25	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> , <b>2015</b> , 137, 6292-303	16.4	12
24	Solution structures of lithium amino alkoxides used in highly enantioselective 1,2-additions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2885-91	16.4	12
23	Structure determination using the method of continuous variation: lithium phenolates solvated by protic and dipolar aprotic ligands. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 7498-507	4.2	12
22	Lithium Amino Alkoxide-Evans Enolate Mixed Aggregates: Aldol Addition with Matched and Mismatched Stereocontrol. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3077-3090	16.4	11

21	Aryl Carbamates: Mechanisms of Orthosodiations and Snieckus-Fries Rearrangements. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 9051-9057	4.2	11
20	Enantioselective Alkylation of 2-Alkylpyridines Controlled by Organolithium Aggregation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15024-15028	16.4	10
19	Structure, Reactivity, and Synthetic Applications of Sodium Diisopropylamide. <i>Synthesis</i> , <b>2020</b> , 52, 1478-1497	4.2	10
18	Case for Lithium Tetramethylpiperidide-Mediated Ortholithiations: Reactivity and Mechanisms. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4877-4883	16.4	10
17	Evans Enolates: Structures and Mechanisms Underlying the Aldol Addition of Oxazolidinone-Derived Boron Enolates. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 7595-7601	4.2	10
16	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> , <b>2014</b> , 79, 11885-902	4.2	10
15	Sodium Hexamethyldisilazide: Using N-Si Scalar Coupling to Determine Aggregation and Solvation States. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6852-6855	16.4	9
14	Reaction of lithium diethylamide with an alkyl bromide and alkyl benzenesulfonate: origins of alkylation, elimination, and sulfonation. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 8392-9	4.2	9
13	Optimizing HMQC for ISn spin systems. <i>Magnetic Resonance in Chemistry</i> , <b>2001</b> , 39, 137-140	2.1	9
12	Pseudoephedrine-Derived Myers Enolates: Structures and Influence of Lithium Chloride on Reactivity and Mechanism. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5444-5460	16.4	8
11	Sodium Diisopropylamide-Mediated Dehydrohalogenations: Influence of Primary- and Secondary-Shell Solvation. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 10860-10869	4.2	8
10	Lithium Enolates Derived from Pyroglutaminol: Mechanism and Stereoselectivity of an Azaaldol Addition. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10276-83	16.4	7
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