

Robert E Mulvey

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h-index

82
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L-index

#	Paper	IF	Citations
349	Deprotonative metalation using ate compounds: synergy, synthesis, and structure building. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3802-24	16.4	460
348	Meldola Medal Lecture. Ring-stacking and ring-laddering in organonitrogenlithium compounds: the development of concepts with wide applicability throughout lithium structural chemistry. <i>Chemical Society Reviews</i> , 1991 , 20, 167	58.5	320
347	Avant-garde metalating agents: structural basis of alkali-metal-mediated metalation. <i>Accounts of Chemical Research</i> , 2009 , 42, 743-55	24.3	296
346	Modern Ate Chemistry: Applications of Synergic Mixed Alkali-Metal/Magnesium or Zinc Reagents in Synthesis and Structure Building. <i>Organometallics</i> , 2006 , 25, 1060-1075	3.8	296
345	s-Block metal inverse crowns: synthetic and structural synergism in mixed alkali metal/magnesium (or zinc) amide chemistry. <i>Chemical Communications</i> , 2001 , 1049-1056	5.8	169
344	Synthetic and structural developments in hetero-s-block-metal chemistry: new ring-laddering, ring-stacking and other architectures. <i>Chemical Society Reviews</i> , 1998 , 27, 339	58.5	163
343	Strong bases. Directed ortho-meta'- and meta-meta'-dimetalations: a template base approach to deprotonation. <i>Science</i> , 2014 , 346, 834-7	33.3	149
342	Synthetically important alkali-metal utility amides: lithium, sodium, and potassium hexamethyldisilazides, diisopropylamides, and tetramethylpiperidides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11470-87	16.4	138
341	Sodium dialkyl-amidozincates: alkyl or amido bases? An experimental and theoretical case study. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6184-5	16.4	119
340	Synergic sedation of sensitive anions: alkali-mediated zincation of cyclic ethers and ethene. <i>Science</i> , 2009 , 326, 706-8	33.3	116
339	Directed meta-metalation using alkali-metal-mediated zincation. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3775-8	16.4	105
338	Cleave and capture chemistry illustrated through bimetallic-induced fragmentation of tetrahydrofuran. <i>Nature Chemistry</i> , 2010 , 2, 588-91	17.6	103
337	A homologous series of regioselectively tetradeprotonated group 8 metallocenes: new inverse crown ring compounds synthesized via a mixed sodium-magnesium tris(diisopropylamide) synergic base. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11612-20	16.4	103
336	Alkali-Metal-Mediated Synergistic Effects in Polar Main Group Organometallic Chemistry. <i>Chemical Reviews</i> , 2019 , 119, 8332-8405	68.1	100
335	Unmasking representative structures of TMP-active Hauser and turbo-Hauser bases. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8079-81	16.4	99
334	Intermetallic Lithium/Magnesium Hexamethyldisilazide: Synthesis and Structure, Discovery of an Oxygen-Centered Variant, and a Reaction with Benzonitrile That Produces a Novel Amidinate Cage Compound with a Trigonal Bipyramidal Li ₄ MgO Core. <i>Journal of the American Chemical Society</i> , 1998 , 120, 7816-7824	16.4	93
333	Selective meta-deprotonation of toluene by using alkali-metal-mediated magnesiation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3459-62	16.4	92

- 332 Regioselective Tetrametalation of Ferrocene in a Single Reaction: Extension of s-Block Inverse Crown Chemistry to the d-Block. *Angewandte Chemie - International Edition*, **2001**, 40, 3902-3905 16.4 91
- 331 Diisopropylamide and TMP turbo-Grignard reagents: a structural rationale for their contrasting reactivities. *Angewandte Chemie - International Edition*, **2010**, 49, 3185-8 16.4 89
- 330 Post-metalation structural insights into the use of alkali-metal-mediated zincation for directed ortho-metalation of a tertiary aromatic amide. *Angewandte Chemie - International Edition*, **2006**, 45, 2374-7 16.4 88
- 329 Alkali Metal Cation Interactions Stabilized Solely by $[M\{N(SiMe_3)_2\}_3]$ - Anions (M = Mg or Zn): The Competing Influence of Alkali Metal π -C(Me) Agostic Interactions. *Organometallics*, **2002**, 21, 5115-5121 3.8 86
- 328 Lithium diamidodihydroaluminates: bimetallic cooperativity in catalytic hydroboration and metallation applications. *Chemical Communications*, **2018**, 54, 1233-1236 5.8 85
- 327 Hydride encapsulation in s-block metal inverse crown chemistry. *Chemical Communications*, **2002**, 376-7 5.8 85
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- 323 Closer insight into the reactivity of TMP-dialkyl zincates in directed ortho-zincation of anisole: experimental evidence of amido basicity and structural elucidation of key reaction intermediates. *Journal of the American Chemical Society*, **2009**, 131, 2375-84 16.4 78
- 322 Alkali-metal-mediated zincation of ferrocene: synthesis, structure, and reactivity of a lithium tmp/zincate reagent. *Angewandte Chemie - International Edition*, **2005**, 44, 6018-21 16.4 78
- 321 Ladder structures in lithium amide chemistry: syntheses, solid-state, and solution structures of donor-deficient lithium pyrrolidide complexes, $[\text{cyclic}]\{[\text{H}_2\text{C}(\text{CH}_2)_3\text{NLi}]\}_3 \cdot \text{PMDTA}$ and $[\text{cyclic}]\{[\text{H}_2\text{C}(\text{CH}_2)_3\text{NLi}]\}_2 \cdot \text{TMEDA}$, and ab initio MO calculations probing ring vs ladder vs ladder-like structures. *Journal of the American Chemical Society*, **1999**, 121, 1719-1727 16.4 78
- 320 Mixed-Metal Sodium/Magnesium Macrocyclic Amide Chemistry: A Template Reaction for the Site Selective Dideprotonation of Arene Molecules. *Angewandte Chemie - International Edition*, **1999**, 38, 1311-133 16.4 77
- 319 Exploiting π -Coordination isomerism to prepare homologous organoalkali metal (Li, Na, K) monomers with identical ligand sets. *Chemistry - A European Journal*, **2011**, 17, 3364-9 4.8 75
- 318 Alkali-metal-mediated zincation of anisole: synthesis and structures of three instructive ortho-zincated complexes. *Journal of the American Chemical Society*, **2006**, 128, 7434-5 16.4 74
- 317 An alternative picture of alkali-metal-mediated metallation: cleave and capture chemistry. *Dalton Transactions*, **2013**, 42, 6676-93 4.3 73
- 316 Crystal structure of lithium diisopropylamide (LDA): an infinite helical arrangement composed of near-linear nitrogen-lithium-nitrogen units with four units per turn of helix. *Journal of the American Chemical Society*, **1991**, 113, 8187-8188 16.4 71
- 315 Organozinc pivalate reagents: segregation, solubility, stabilization, and structural insights. *Angewandte Chemie - International Edition*, **2014**, 53, 2706-10 16.4 69

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- 308 Synergic monodeprotonation of bis(benzene)chromium by using mixed alkali metal-magnesium amide bases and structural characterization of the heterotrimetallic products. *Angewandte Chemie - International Edition*, **2004**, 44, 68-72 16.4 63
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296	Tuning the basicity of synergic bimetallic reagents: switching the regioselectivity of the direct dimetalation of toluene from 2,5- to 3,5-positions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6208-11	16.4	50
295	Stoichiometric and catalytic Sn-mediated dehydrocoupling of primary phosphines. <i>Chemical Communications</i> , 2010 , 46, 5000-2	5.8	49
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291	Structurally engineered deprotonation/alumination of THF and THTP with retention of their cycloanionic structures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9388-91	16.4	48
290	Organometallic polymers assembled from cation-pi interactions: use of ferrocene as a ditopic linker within the homologous series $[(\text{Me}_3\text{Si})_2\text{NM}]_2(\text{Cp}_2\text{Fe})_n$ (M=Na, K, Rb, Cs; Cp=cyclopentadienyl). <i>Chemistry - A European Journal</i> , 2007 , 13, 4418-32	4.8	48
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284	X-ray crystallographic studies and comparative reactivity studies of a sodium diisopropylamide (NDA) complex and related hindered amides. <i>Journal of Organometallic Chemistry</i> , 1996 , 518, 85-95	2.3	46
283	Alkali-Metal Mediation: Diversity of Applications in Main-Group Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9247-9262	16.4	46
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- 1 Structural Evidence for Synergistic Bimetallic Main Group Bases **2022**, 49-95