

Emil Lobkovsky

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113
papers

9,750
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58
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97
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129
ext. papers

10,288
ext. citations

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avg, IF

6
L-index

#	Paper	IF	Citations
113	Preparation and molecular and electronic structures of iron(0) dinitrogen and silane complexes and their application to catalytic hydrogenation and hydrosilation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13794-807	16.4	707
112	Hydrogenation and cleavage of dinitrogen to ammonia with a zirconium complex. <i>Nature</i> , 2004 , 427, 527-30	50.4	506
111	Electronic structure of bis(imino)pyridine iron dichloride, monochloride, and neutral ligand complexes: a combined structural, spectroscopic, and computational study. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13901-12	16.4	425
110	Iron-catalyzed [2pi + 2pi] cycloaddition of alpha,omega-dienes: the importance of redox-active supporting ligands. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13340-1	16.4	294
109	Pestalone, a new antibiotic produced by a marine fungus in response to bacterial challenge. <i>Journal of Natural Products</i> , 2001 , 64, 1444-6	4.9	275
108	Cyclomarins A1, New Antiinflammatory Cyclic Peptides Produced by a Marine Bacterium (<i>Streptomyces</i> sp.). <i>Journal of the American Chemical Society</i> , 1999 , 121, 11273-11276	16.4	193
107	Synthesis and hydrogenation of bis(imino)pyridine iron imides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5302-3	16.4	189
106	Bis(imino)pyridine iron complexes for aldehyde and ketone hydrosilylation. <i>Organic Letters</i> , 2008 , 10, 2789-92	6.2	185
105	Enantiopure Pyridine Bis(oxazoline) Pybox and Bis(oxazoline) Box Iron Dialkyl Complexes: Comparison to Bis(imino)pyridine Compounds and Application to Catalytic Hydrosilylation of Ketones. <i>Organometallics</i> , 2009 , 28, 3928-3940	3.8	183
104	Dysidiolide: A Novel Protein Phosphatase Inhibitor from the Caribbean Sponge <i>Dysidea etheria</i> de Laubenfels. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8759-8760	16.4	180
103	Arene Coordination in Bis(imino)pyridine Iron Complexes: Identification of Catalyst Deactivation Pathways in Iron-Catalyzed Hydrogenation and Hydrosilation. <i>Organometallics</i> , 2006 , 25, 4269-4278	3.8	179
102	Functional Group Tolerance and Substrate Scope in Bis(imino)pyridine Iron Catalyzed Alkene Hydrogenation. <i>Organometallics</i> , 2008 , 27, 1470-1478	3.8	175
101	Amineborane dehydrogenation promoted by isolable zirconium sandwich, titanium sandwich and N(2) complexes. <i>Chemical Communications</i> , 2007 , 3297-9	5.8	169
100	Torreyanic Acid: A Selectively Cytotoxic Quinone Dimer from the Endophytic Fungus <i>Pestalotiopsis microspora</i> . <i>Journal of Organic Chemistry</i> , 1996 , 61, 3232-3233	4.2	165
99	Synthesis and molecular and electronic structures of reduced bis(imino)pyridine cobalt dinitrogen complexes: ligand versus metal reduction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1676-84	16.4	164
98	Dinitrogen cleavage and functionalization by carbon monoxide promoted by a hafnium complex. <i>Nature Chemistry</i> , 2010 , 2, 30-5	17.6	157
97	Low-Valent η -Diimine Iron Complexes for Catalytic Olefin Hydrogenation. <i>Organometallics</i> , 2005 , 24, 5518-5527	3.8	153

96	Catalytic ester-amide exchange using group (IV) metal alkoxide-activator complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10039-44	16.4	148
95	Bis(imino)pyridine iron(II) alkyl cations for olefin polymerization. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9660-1	16.4	146
94	Cryptocin, a potent tetramic acid antimycotic from the endophytic fungus <i>Cryptosporiopsis cf. quercina</i> . <i>Organic Letters</i> , 2000 , 2, 767-70	6.2	141
93	Synthesis and electronic structure of cationic, neutral, and anionic bis(imino)pyridine iron alkyl complexes: evaluation of redox activity in single-component ethylene polymerization catalysts. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15046-59	16.4	140
92	Bis(diisopropylphosphino)pyridine iron dicarbonyl, dihydride, and silyl hydride complexes. <i>Inorganic Chemistry</i> , 2006 , 45, 7252-60	5.1	140
91	Synthesis, Electronic Structure, and Alkene Hydrosilylation Activity of Terpyridine and Bis(imino)pyridine Iron Dialkyl Complexes. <i>Organometallics</i> , 2012 , 31, 4886-4893	3.8	129
90	Iron-catalyzed intermolecular [2+2] cycloaddition. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8858-61	16.4	127
89	Oxidative addition of carbon-carbon bonds with a redox-active bis(imino)pyridine iron complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17125-37	16.4	121
88	Synthesis of a Base-Free Titanium Imido and a Transient Alkylidene from a Titanocene Dinitrogen Complex. Studies on TiNR Hydrogenation, Nitrene Group Transfer, and Comparison of 1,2-Addition Rates. <i>Organometallics</i> , 2004 , 23, 3448-3458	3.8	119
87	Synthesis of aryl-substituted bis(imino)pyridine iron dinitrogen complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 2782-92	5.1	112
86	Neutral-ligand complexes of bis(imino)pyridine iron: synthesis, structure, and spectroscopy. <i>Inorganic Chemistry</i> , 2007 , 46, 7055-63	5.1	109
85	Synthesis, Reactivity, and Solid State Structures of Four-Coordinate Iron(II) and Manganese(II) Alkyl Complexes. <i>Organometallics</i> , 2004 , 23, 237-246	3.8	103
84	Photolysis and thermolysis of bis(imino)pyridine cobalt azides: C-H activation from putative cobalt nitrido complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16343-5	16.4	101
83	Square planar vs tetrahedral geometry in four coordinate iron(II) complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 3103-11	5.1	101
82	Square planar bis(imino)pyridine iron halide and alkyl complexes. <i>Chemical Communications</i> , 2005 , 3406-8	3.8	96
81	Cyclopentadienyl substituent effects on reductive elimination reactions in group 4 metallocenes: kinetics, mechanism, and application to dinitrogen activation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2241-51	16.4	93
80	Carbon-Oxygen Bond Cleavage by Bis(imino)pyridine Iron Compounds: Catalyst Deactivation Pathways and Observation of Acyl C-O Bond Cleavage in Esters. <i>Organometallics</i> , 2008 , 27, 6264-6278	3.8	88
79	Iron diazoalkane chemistry: N-N bond hydrogenation and intramolecular C-H activation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7212-3	16.4	88

- 78 Synthesis and electronic structure determination of N-alkyl-substituted bis(imino)pyridine iron imides exhibiting spin crossover behavior. *Journal of the American Chemical Society*, **2011**, 133, 17353-69^{16.4} 87
- 77 Total Synthesis of (E)-Torreyanic Acid. *Journal of the American Chemical Society*, **2000**, 122, 10484-10485^{16.4} 87
- 76 Reduced N-alkyl substituted bis(imino)pyridine cobalt complexes: molecular and electronic structures for compounds varying by three oxidation states. *Inorganic Chemistry*, **2010**, 49, 6110-23 5.1 86
- 75 Kinetics and mechanism of N₂ hydrogenation in bis(cyclopentadienyl) zirconium complexes and dinitrogen functionalization by 1,2-addition of a saturated C-H bond. *Journal of the American Chemical Society*, **2005**, 127, 14051-61 16.4 83
- 74 Synthesis of Bis(imino)pyridine Iron Di- and Monoalkyl Complexes: Stability Differences between FeCH₂SiMe₃ and FeCH₂CMe₃ Derivatives. *Organometallics*, **2008**, 27, 109-118 3.8 80
- 73 Nitrogen-carbon bond formation from N₂ and CO₂ promoted by a hafnocene dinitrogen complex yields a substituted hydrazine. *Angewandte Chemie - International Edition*, **2007**, 46, 2858-61 16.4 79
- 72 Unusual C₂₅ steroids produced by a sponge-derived *Penicillium citrinum*. *Organic Letters*, **2003**, 5, 4393-6.2 79
- 71 N₂ Hydrogenation Promoted by a Side-On Bound Hafnocene Dinitrogen Complex. *Organometallics*, **2006**, 25, 1021-1027 3.8 76
- 70 Dinitrogen activation by titanium sandwich complexes. *Journal of the American Chemical Society*, **2004**, 126, 14688-9 16.4 74
- 69 Carbon monoxide-induced dinitrogen cleavage with group 4 metallocenes: reaction scope and coupling to N-H bond formation and CO deoxygenation. *Journal of the American Chemical Society*, **2010**, 132, 10553-64 16.4 73
- 68 Bis(imino)pyridine iron alkyls containing beta-hydrogens: synthesis, evaluation of kinetic stability, and decomposition pathways involving chelate participation. *Journal of the American Chemical Society*, **2008**, 130, 11631-40 16.4 72
- 67 Exploring chemical diversity of epoxyquinoid natural products: synthesis and biological activity of (-)-jesterone and related molecules. *Organic Letters*, **2001**, 3, 1649-52 6.2 72
- 66 N-C bond formation promoted by a hafnocene dinitrogen complex: comparison of zirconium and hafnium congeners. *Journal of the American Chemical Society*, **2006**, 128, 10696-7 16.4 71
- 65 Reduction chemistry of aryl- and alkyl-substituted bis(imino)pyridine iron dihalide compounds: molecular and electronic structures of [(PDI)₂Fe] derivatives. *Inorganic Chemistry*, **2009**, 48, 4190-200 5.1 70
- 64 Oxidation and reduction of bis(imino)pyridine iron dinitrogen complexes: evidence for formation of a chelate trianion. *Inorganic Chemistry*, **2013**, 52, 635-46 5.1 67
- 63 Synthesis, electronic structure, and catalytic activity of reduced bis(aldimino)pyridine iron compounds: experimental evidence for ligand participation. *Inorganic Chemistry*, **2011**, 50, 3159-69 5.1 66
- 62 Dinitrogen silylation and cleavage with a hafnocene complex. *Journal of the American Chemical Society*, **2011**, 133, 10406-9 16.4 66
- 61 Zirconium sandwich complexes with eta(9) indenyl ligands: well-defined precursors for zirconocene-mediated coupling reactions. *Journal of the American Chemical Society*, **2004**, 126, 16937-50^{16.4} 64

60	Synthesis of a zirconium sandwich complex and crystallographic characterization of its adduct with tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8110-1	16.4	64
59	Bis(imino)pyridine Iron Dinitrogen Compounds Revisited: Differences in Electronic Structure Between Four- and Five-Coordinate Derivatives. <i>Organometallics</i> , 2012 , 31, 2275-2285	3.8	62
58	Bis(imino)pyridine ligand deprotonation promoted by a transient iron amide. <i>Inorganic Chemistry</i> , 2006 , 45, 2-4	5.1	62
57	Synthesis, electronic structure, and ethylene polymerization activity of bis(imino)pyridine cobalt alkyl cations. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8143-7	16.4	60
56	Dinitrogen functionalization with terminal alkynes, amines, and hydrazines promoted by $[(\eta^5\text{-C}_5\text{Me}_4\text{H})_2\text{Zr}]_2(\mu_2, \eta^2, \eta^2\text{-N}_2)$: observation of side-on and end-on diazenido complexes in the reduction of N_2 to hydrazine. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7901-11	16.4	58
55	Oxidation and reduction of bis(imino)pyridine iron dicarbonyl complexes. <i>Inorganic Chemistry</i> , 2011 , 50, 9888-95	5.1	57
54	N_2 hydrogenation from activated end-on bis(indenyl) zirconium dinitrogen complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14046-7	16.4	56
53	Stereochemical diversity through cyclodimerization: synthesis of polyketide-like macrodiolides. <i>Organic Letters</i> , 2003 , 5, 2149-52	6.2	56
52	Carbon-oxygen bond cleavage with η^9, η^5 -bis(indenyl)zirconium sandwich complexes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16600-12	16.4	54
51	Structures and cytotoxic properties of sponge-derived bisannulated acridines. <i>Journal of Organic Chemistry</i> , 2002 , 67, 9384-91	4.2	54
50	Synthesis and Electronic Structure of Reduced Bis(imino)pyridine Manganese Compounds. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 535-545	2.3	53
49	Bis(cyclopentadienyl) Titanium Dinitrogen Chemistry: Synthesis and Characterization of a Side-on Bound Haptomer. <i>Organometallics</i> , 2007 , 26, 2431-2438	3.8	52
48	N-N bond cleavage in diazoalkanes by a bis(imino)pyridine iron complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 36-7	16.4	51
47	Synthesis of a beta-diiminate iridium tetrahydride for arene C-H bond activation. <i>Chemical Communications</i> , 2004 , 764-5	5.8	51
46	Total synthesis of the NF-kappa B inhibitor (-)-cycloepoxydon: utilization of tartrate-mediated nucleophilic epoxidation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11308-9	16.4	48
45	Functionalization of hafnium oxamidate complexes prepared from CO-induced N_2 cleavage. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15340-50	16.4	47
44	Indenyl zirconium dinitrogen chemistry: N_2 coordination to an isolated zirconium sandwich and synthesis of side-on, end-on dinitrogen compounds. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6047-54	16.4	46
43	Ancillary Ligand Effects on C-H Bond Activation Reactions Promoted by Diiminate Iridium Complexes. <i>Organometallics</i> , 2005 , 24, 6250-6259	3.8	45

42	A chemical study of cyclic depsipeptides produced by a sponge-derived fungus. <i>Journal of Natural Products</i> , 2006 , 69, 1560-5	4.9	43
41	A further study of the cytotoxic constituents of a milnamide-producing sponge. <i>Organic Letters</i> , 2004 , 6, 779-82	6.2	43
40	Studies into the mechanism of CO-induced N ₂ cleavage promoted by an ansa-hafnocene complex and C-C bond formation from an observed intermediate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3377-86	16.4	42
39	Ambewelamides A and B, antineoplastic epidithiapiperazinediones isolated from the lichen <i>Usnea</i> sp.. <i>Tetrahedron Letters</i> , 1998 , 39, 9579-9582	2	42
38	BF ₃ -mediated additions of organolithiums to ketimines: X-ray crystal structures of BF ₃ -ketimine complexes. <i>Journal of Organic Chemistry</i> , 2005 , 70, 2335-7	4.2	41
37	Dihydrogen and silane addition to base-free, monomeric bis(cyclopentadienyl)titanium oxides. <i>Inorganic Chemistry</i> , 2007 , 46, 2359-61	5.1	40
36	Discorhabdin P, a new enzyme inhibitor from a deep-water Caribbean sponge of the genus <i>Batzella</i> . <i>Journal of Natural Products</i> , 1999 , 62, 173-5	4.9	40
35	Mono(dinitrogen) and carbon monoxide adducts of bis(cyclopentadienyl) titanium sandwiches. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6018-9	16.4	39
34	Synthesis and Characterization of Zirconium and Iron Complexes Containing Substituted Indenyl Ligands: Evaluation of Steric and Electronic Parameters. <i>Organometallics</i> , 2004 , 23, 5332-5346	3.8	39
33	Ligand-induced haptotropic rearrangements in bis(indenyl)zirconium sandwich complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10291-304	16.4	37
32	Tuning redox potentials of bis(imino)pyridine cobalt complexes: an experimental and theoretical study involving solvent and ligand effects. <i>Dalton Transactions</i> , 2012 , 41, 3562-73	4.3	35
31	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, 16853-64	16.4	35
30	The Indenyl Effect in Zirconocene Dihydride Chemistry. <i>Organometallics</i> , 2006 , 25, 2080-2089	3.8	32
29	Diazene dehydrogenation follows H ₂ addition to coordinated dinitrogen in an ansa-zirconocene complex. <i>Inorganic Chemistry</i> , 2007 , 46, 1675-83	5.1	31
28	Dinitrogen Complexes of Bis(cyclopentadienyl) Titanium Derivatives: Structural Diversity Arising from Substituent Manipulation. <i>Organometallics</i> , 2009 , 28, 4079-4088	3.8	30
27	Addition of methyl triflate to a hafnocene dinitrogen complex: stepwise n(2) methylation and conversion to a hafnocene hydrazonato compound. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14903-12	16.4	29
26	Nitrogen-Carbon Bond Formation from N ₂ and CO ₂ Promoted by a Hafnocene Dinitrogen Complex Yields a Substituted Hydrazine. <i>Angewandte Chemie</i> , 2007 , 119, 2916-2919	3.6	29
25	Functionalization of elemental phosphorus with [Zr(eta ⁵ -C ₅ Me ₅)(eta ⁵ -C ₅ H ₄ tBu)H ₂] ₂ . <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3463-5	16.4	28

24	N η Group Transfer and Oxidative Addition Chemistry Promoted by Isolable Bis(cyclopentadienyl)titanium Sandwich Complexes. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2677-2685	2.3	27
23	Alkyl Substituent Effects on Reductive Elimination Reactions in Zirconocene Alkyl Hydride Complexes. Manipulation of the Alkyl Steric Environment Allows the Synthesis of a Zirconocene Dinitrogen Complex. <i>Organometallics</i> , 2003 , 22, 2797-2805	3.8	27
22	Topoisomerase II-mediated DNA cleavage by adocia- and xestoquinones from the Philippine sponge <i>Xestospongia</i> sp. <i>Journal of Medicinal Chemistry</i> , 1995 , 38, 4503-7	8.3	26
21	C \equiv N Bond Activation Reactions with Ligand Adducts of a η -Diimine Iridium Dihydride. <i>Organometallics</i> , 2005 , 24, 4367-4373	3.8	24
20	Using scalarane sesterterpenes to examine a sponge taxonomic anomaly. <i>Journal of Natural Products</i> , 1997 , 60, 556-61	4.9	23
19	Bioactive 2-oxazolines: a new approach via one-pot, four-component reaction. <i>Organic Letters</i> , 2007 , 9, 2015-7	6.2	23
18	Novel VIII Complexes with a Central [V 3 (β -S)-(E 2) $_3$] $^+$ or [V 2 (EO)(E β Ph) $_2$] $^{2+}$ Unit. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 594-596		23
17	Lithiated imines: solvent-dependent aggregate structures and mechanisms of alkylation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5939-48	16.4	22
16	Relative and absolute stereochemistry of the didemnaketals, metabolites of a Palauan ascidian, <i>Didemnum</i> sp. <i>Organic Letters</i> , 2002 , 4, 1699-702	6.2	21
15	Synthesis of bis(indenyl)zirconium dihydrides and subsequent rearrangement to η^5, η^3 -4,5-dihydroindenediyl ligands: evidence for intermediates during the hydrogenation to tetrahydroindenyl derivatives. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6454-67	16.4	19
14	Isolation and Structural Proof of the Large Diamond Molecule, Cyclohexamantane (C $_{26}$ H $_{30}$). <i>Angewandte Chemie</i> , 2003 , 115, 2086-2090	3.6	19
13	Honulactones: new bishomoscalarane sesterterpenes from the Indonesian sponge <i>Strepsichordaia aliena</i> . <i>Journal of Organic Chemistry</i> , 2000 , 65, 6837-40	4.2	19
12	Carbon-Hydrogen Bond Activation with a Cyclometalated Zirconocene Hydride: Mechanistic Differences between Arene and Alkane Reductive Elimination. <i>Organometallics</i> , 2006 , 25, 1092-1100	3.8	17
11	Synthesis and Electronic Structure Diversity of Pyridine(diimine)iron Tetrazene Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 9634-9643	5.1	16
10	Guaiane sesquiterpene lactones from <i>Salvia nubicola</i> (Lamiaceae). <i>Chemistry and Biodiversity</i> , 2007 , 4, 98-104	2.5	15
9	Synthesis, Electronic Structure, and Ethylene Polymerization Activity of Bis(imino)pyridine Cobalt Alkyl Cations. <i>Angewandte Chemie</i> , 2011 , 123, 8293-8297	3.6	11
8	1,4-Addition of Alkyl Halides to a Side-on Bound Hafnocene Dinitrogen Complex. <i>Organometallics</i> , 2009 , 28, 4807-4813	3.8	10
7	Cyclopentanone Insertion into β -Indenyl Rings of Zirconium Sandwich Complexes. <i>Organometallics</i> , 2010 , 29, 1789-1796	3.8	9

6	Bis(indenyl)hafnium Chemistry: Ligand-Induced Haptotropic Rearrangement and Fundamental Reactivity Studies at a Reduced Hafnium Center. <i>Organometallics</i> , 2009 , 28, 2471-2484	3.8	9
5	Cyclisation of η^5 -Dienes promoted by bis(indenyl)zirconium sandwich and ansa-titanocene dinitrogen complexes. <i>Dalton Transactions</i> , 2011 , 40, 7737-47	4.3	6
4	Innentitelbild: Synthesis, Electronic Structure, and Ethylene Polymerization Activity of Bis(imino)pyridine Cobalt Alkyl Cations (Angew. Chem. 35/2011). <i>Angewandte Chemie</i> , 2011 , 123, 8104-8104	3.6	104
3	Inside Cover: Synthesis, Electronic Structure, and Ethylene Polymerization Activity of Bis(imino)pyridine Cobalt Alkyl Cations (Angew. Chem. Int. Ed. 35/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7956-7956	16.4	
2	Titelbild: Isolation and Structural Proof of the Large Diamond Molecule, Cyclohexamantane (C ₂₆ H ₃₀) (Angew. Chem. 18/2003). <i>Angewandte Chemie</i> , 2003 , 115, 2029-2029	3.6	
1	Cover Picture: Isolation and Structural Proof of the Large Diamond Molecule, Cyclohexamantane (C ₂₆ H ₃₀) (Angew. Chem. Int. Ed. 18/2003). <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1983-1983	16.4	