

All updated sections of Science of Synthesis from 2010 until 2021

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Volume 1						
Compounds with Transition Metal—Carbon π -Bonds and Compounds of Groups 10–8 (Ni, Pd, Pt, Co, Rh, Ir, Fe, Ru, Os)						
2013/2	1.1.5	Organometallic Complexes of Nickel	R. M. Stolley and J. Louie	61	B. J. Plietker	10.1055/sos-SD-101-00179
2012/4	1.2.5	Product Subclass 5: Palladium(III)-Containing Complexes	D. C. Powers and T. Ritter	31	B. Stoltz	10.1055/sos-SD-101-00107
2013/2	1.2.6	High-Valent Palladium in Catalysis	P. Chen, G. Liu, K. M. Engle, and J.-Q. Yu	45	B. Stoltz	10.1055/sos-SD-101-00153
2016/2	1.2.7	Radical-Based Palladium-Catalyzed Bond Constructions	Y. Li, W. Xie, and X. Jiang	112	B. Stoltz	
2015/2	1.3.6	Organometallic Complexes of Platinum	A. Nomoto and A. Ogawa	19	B. J. Plietker	
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2014/2	2.7.10	Carbonyl Complexes of Chromium, Molybdenum, and Tungsten with σ -Bonded Ligands	E. Aguilar and L. A. López	137	I. Marek	
2014/2	2.8.10	Organometallic Complexes of Vanadium	O. S. Shneider and A. M. Szpilman	33	I. Marek	
2011/3	2.10.18	Organometallic Complexes of Titanium: Titanium-Mediated Alkenation Reactions	T. Takeda and A. Tsubouchi	36	I. Marek	
2012/4	2.10.19	Organometallic Complexes of Titanium: Titanium-Mediated Synthesis of Cyclopropyl Derivatives	P. Bertus, F. Boeda, and M. S. M. Pearson-Long	51	I. Marek	10.1055/sos-SD-102-00229
2012/4	2.10.20	Organometallic Complexes of Titanium: Titanium-Mediated Reductive Cross-Coupling Reactions (Intermolecular Metallacycle-Mediated C-C Bond Formation)	G. C. Micalizio	65	I. Marek	
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2016/2	2.11.16	Synthesis and Reactivity of Heteroatom-Substituted Vinylzirconocene Derivatives and Hetarylzirconocenes	J. Bruffaerts and A. Vasseur	30	I. Marek	

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2013/4	2.12.16	Organometallic Complexes of Scandium, Yttrium, and the Lanthanides	J. Hannedouche	126	I. Marek	
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2021/1	2.12.18	Chiral Scandium Complexes in Asymmetric Synthesis	W. Li, X. H. Liu, and X. M. Feng	65	I. Marek	10.1055/sos-SD-102-00633
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2011/4	2.14	Product Class 14: Group 4 Metallocene Complexes with Bis(trimethylsilyl)acetylene	T. Beweries and U. Rosenthal	61	I. Marek	
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2011/2	3.6.11	Organometallic Complexes of Gold: Gold-Catalyzed Cycloisomerizations of Enynes	V. López-Carrillo and A. M. Echavarren	70	N. Krause	
2011/2	3.6.12	Organometallic Complexes of Gold: Gold-Catalyzed Propargylic Rearrangements	L. Zhang	30	N. Krause	
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2011/3	4.4.2.6	Silenes (Update 2, 2011): Silenolates	H. Ottosson and J. Ohshita	9	M. Oestreich	
2012/4	4.4.3	Product Subclass 3: Silylenes	S. Inoue and M. Driess	83	M. Oestreich	
2015/1	4.4.4.8	Silyl Hydrides	R. W. Clark and S. L. Wiskur	58	M. Oestreich	
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2017/1	4.4.7	Product Subclass 7: Silylboron Reagents	L. B. Delvos and M. Oestreich	112	M. Oestreich	
2013/2	4.4.9	Product Subclass 9: Silylzinc Reagents	A. Durand, I. Hemeon, and R. D. Singer	9	M. Oestreich	10.1055/sos-SD-104-00177
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2020/3	4.4.28.17	α -Silyl Alcohols, Ethers, and Amines	Q.-W. Zhang K. An and W. He	42	M. Oestreich	10.1055/sos-SD-104-00639
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2015/1	4.4.34.35	Vinylsilanes	E. A. Anderson and D. S. W. Lim	99	M. Oestreich	
2020/1	4.4.40.72	Allylsilanes	K. Okamoto and K. Ohe	158	M. Oestreich	
2013/2	4.4.41.8	β -Silyl Carbonyl Compounds	F. Nahra and O. Riant	18	M. Oestreich	10.1055/sos-SD-104-00164
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2013/3	4.4.44	Product Subclass 44: Silyl Radicals	Y. Landais	50	M. Oestreich	
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2020/3	5.1.3	Product Subclass 3: Metalated Germanium Compounds	C. Marschner	17	C. Marschner	10.1055/sos-SD-105-00260
2021/2	5.1.7	Product Subclass 7: Germylenes	N. Takeda	26	C. Marschner	10.1055/sos-SD-105-00314
2020/3	5.1.13.3	Germylamines	C. S. Weinert	10	C. Marschner	10.1055/sos-SD-105-00278
2010/1	5.1.15.2	Germanium Cyanides	A. C. Spivey and C.-C. Tseng	3	M. G. Moloney	
2010/1	5.1.16.6	Acylgermanes	A. C. Spivey and C.-C. Tseng	6	M. G. Moloney	
2010/1	5.1.18.4	α -Halo- and α -Alkoxyvinylgermanes	A. C. Spivey and C.-C. Tseng	6	M. G. Moloney	
2010/1	5.1.19.7	α -Halo-, α -Hydroxy-, α -Alkoxy-, and α -Aminoalkylgermanes	A. C. Spivey and C.-C. Tseng	7	M. G. Moloney	
2010/1	5.1.20.4	Alkynylgermanes	A. C. Spivey and C.-C. Tseng	6	M. G. Moloney	
2010/1	5.1.22.6	Aryl- and Heteroarylgermanes	A. C. Spivey and C.-C. Tseng	7	M. G. Moloney	
2010/1	5.1.23.6	Vinylgermanes	A. C. Spivey and C.-C. Tseng	9	M. G. Moloney	
2010/1	5.1.24.4	Propargyl- and Allenylgermanes	A. C. Spivey and C.-C. Tseng	3	M. G. Moloney	
2010/1	5.1.25.3	Benzylgermanes	A. C. Spivey and C.-C. Tseng	5	M. G. Moloney	
2010/1	5.1.26.6	Allylgermanes	A. C. Spivey and C.-C. Tseng	7	M. G. Moloney	
2010/1	5.1.27.4	Alkylgermanes	A. C. Spivey and C.-C. Tseng	3	M. G. Moloney	
2020/2	5.1.28	Product Subclass 28: Germales	T. Müller	29	C. Marschner	
2021/1	5.1.29	Product Subclass 29: Silylated Germanes	J. A. Hlina	36	C. Marschner	10.1055/sos-SD-105-00286
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2014/4	5.2.17.9	Acylstannanes (Including S, Se, and Te Analogues)	P. B. Wyatt	8	M. G. Moloney	
2014/4	5.2.18.8	Imidoystannanes, Diazoalkylstannanes, Tin Isocyanates, and Tin Isothiocyanates	P. B. Wyatt	2	M. G. Moloney	
2021/2	5.2.24.10	Arylstannanes	J. Vrána and A. Růžička	32	C. Marschner	10.1055/sos-SD-105-00330
2011/2	5.2.27	Product Subclass 27: Benzylstannanes	J. S. Snaith	36	M. G. Moloney	
2011/2	5.2.28	Product Subclass 28: Allylstannanes	J. S. Snaith	72	M. G. Moloney	
2020/2	5.2.30	Product Subclass 30: Stannoles	I.-M. Ramirez y Medina, W. Kipke, J. Makow, and A. Staubitz	21	C. Marschner	

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2012/3	6.1.3.8	Diborane(4) Compounds	G. E. Ferris, S. N. Mlynarski, and J. P. Morken	30	D. G. Hall	
2013/3	6.1.6	Product Subclass 6: Haloborates	G. A. Molander and F. Beaumard	43	D. G. Hall	
2011/4	6.1.7.11	Hydroxyboranes	D. G. Hall and H. Zheng	39	D. G. Hall	
2012/4	6.1.28.24	Vinylboranes	M. Vaultier and M. Pucheault	43	D. G. Hall	
2021/2	6.1.29.16	α -Boryl Carbonyl Compounds	A. Trofimova, M. Sirvinskas, and A. K. Yudin	52	E. Fernández	
2012/3	6.1.35.20	Allylboranes	Yu. N. Bubnov and G. D. Kolomnikova	85	D. G. Hall	
2014/4	6.1.42	Product Subclass 42: N-Heterocyclic Carbene Borane Complexes	A.-L. Vallet and E. Lacôte	37	D. G. Hall	
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2010/4	7.1.2.44	Aluminum Hydrides	H. Naka and S. Saito	9	K. Ishihara	
2010/4	7.1.3.18	Aluminum Halides	H. Naka and S. Saito	14	K. Ishihara	
2011/4	7.1.4.7	Aluminum Alkoxides and Phenoxides	K. Ohmatsu and T. Ooi	18	K. Ishihara	
2011/4	7.1.7.15	Aluminum Amides	K. Ohmatsu and T. Ooi	8	K. Ishihara	
2010/4	7.1.9.11	Triorganoaluminum Compounds	M. Oishi and H. Takikawa	20	K. Ishihara	
2010/4	7.2.8	Gallium Compounds	M. Yamaguchi	12	K. Ishihara	
2010/4	7.3	Product Class 3: Indium Compounds	S. Araki and T. Hirashita	70	K. Ishihara	
2010/3	7.6.5.6	Aryl Grignard Reagents	H. Yorimitsu	9	K. Ishihara	
2010/3	7.6.10.9	Alkyl Grignard Reagents	H. Yorimitsu	19	K. Ishihara	
2013/1	7.6.11.21	Grignard Reagents with Transition Metals	Z. Song and T. Takahashi	33	K. Ishihara	
2010/3	7.6.12.13	Magnesium Halides	M. Shimizu	29	K. Ishihara	
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2010/3	7.6.14	Product Subclass 14: Magnesium Amides	M. Shimizu	15	K. Ishihara	
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2010/4	8.1.28	The Catalytic Use of Lithium Compounds for Bond Formation	S. Matsunaga	14	M. Yus	
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2012/1	8.1.31	Functionalized Organolithiums by Ring Opening of Heterocycles	M. Yus and F. Foubelo	46	M. Yus	
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2012/2	8.1.34	Asymmetric Lithiation	J.-C. Kizirian	63	M. Yus	
2010/4	8.2.16	The Catalytic Use of Sodium Compounds for Bond Formation	T. Arai	14	M. Yus	
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2011/2	9.10.4	Thiophenes, Thiophene 1,1-Dioxides, and Thiophene 1-Oxides	J. Schatz and M. Seßler	73	A. Fürstner	
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2010/1	9.12.3	Tellurophenes	J. Schatz and M. Seßler,	9	A. Fürstner	
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2020/2	10.4	Product Class 4: Benzo[b]thiophenes	N. Yoshikai, C. M. Rayner, and M. A. Graham	93	J. A. Joule	
2010/2	10.13	Product Class 13: Indole and Its Derivatives	J. A. Joule	486	E. J. Thomas	
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2016/3	10.22.1	Product Class 22: Azaindoles and Their Derivatives	J.-Y. Mérour and B. Joseph	504	J. A. Joule	
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2017/1	10.22.6	Product Subclass 6: Azaindol-2- and Azaindol-3-amines	J.-Y. Mérour and B. Joseph	17	J. A. Joule	
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2021/3	10.24.2	Product Subclass 2: Pyrimido[1,2- α]indoles and Related Benzo-Fused Ring Systems	P. A. Harris	24	J. A. Joule	
2021/3	10.24.3	Product Subclass 3: Pyrimido[1,6- α]indoles and Related Benzo-Fused Ring Systems	P. A. Harris	36	J. A. Joule	
2021/3	10.24.4	Product Subclass 3: Pyrimido[1,6- α]indoles and Related Benzo-Fused Ring Systems	P. A. Harris	36	J. A. Joule	
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2010/1	11.10.5	1,2-Benzisoxazoles and Related Compounds	S. Härtinger	20	E. Schaumann	
2010/3	11.12.5	Oxazoles	A. Khartulyari and M. E. Maier	64	E. Schaumann	
2010/1	11.13	Product Class 13: Benzoxazoles and Other Annulated Oxazoles	M. Schnürch, J. Hämmerle, and P. Stanetty	54	E. Schaumann	
2010/1	11.15.4	Isothiazoles	M. Sainsbury	42	E. Schaumann	
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2010/1	11.21.5	Annulated Isoselenazole Compounds	K. Shimada	3	E. Schaumann	
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2010/1	11.23.3	Annulated Selenazole Compounds	K. Shimada	11	E. Schaumann	
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2011/1	12.2.5	1 <i>H</i> - and 2 <i>H</i> -Indazoles	K. Sapeta and M. A. Kerr	60	E. M. Carreira	
2019/2	12.4.5	Benzimidazoles	F. M. Irudayanathan and S. Lee	52	E. M. Carreira	
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