



Complete Volume List for Science of Synthesis Volumes

Knowledge Update Volumes	Publication Year	Number of Pages	ISBN/DOI
Knowledge Update 2021/1	2020	558	978-3-13-244195-8 10.1055/b000000476
Knowledge Update 2020/3	2020	532	978-3-13-243564-3 10.1055/b000000104
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Free Radicals: Fundamentals and Applications in Organic Synthesis 2	2020	702	978-3-13-243554-4 10.1055/b0000000086	Fensterbank/ Ollivier
Dual Catalysis in Organic Synthesis 2	2019	500	978-3-13-242981-9 10.1055/b-006-166041	Molander
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Advances in Organoboron Chemistry towards Organic Synthesis	2019	574	978-3-13-242971-0 10.1055/b-006-164898	Fernández
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Applications of Domino Transformations in Organic Synthesis 2	2016	528	978-3-13-221141-4 10.1055/b-003-128260	Snyder
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Catalytic Transformations via C–H Activation 2	2015	522	978-3-13-205721-0 10.1055/b-003-129675	Yu
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Biocatalysis in Organic Synthesis 3	2015	714	978-3-13-174661-0 10.1055/b-003-125814	Faber, Fessner, Turner
Biocatalysis in Organic Synthesis 2	2015	670	978-3-13-174161-5 10.1055/b-003-125813	Faber, Fessner, Turner

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Biocatalysis in Organic Synthesis 1	2015	646	978-3-13-174131-8 10.1055/b-003-125815	Faber, Fessner, Turner
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C-1 Building Blocks in Organic Synthesis 1 Additions to Alkenes, Alkynes, and Carbonyl Compounds	2014	610	978-3-13-170761-1 10.1055/b-003-125818	van Leeuwen
Multicomponent Reactions 2 Reactions Involving an α,β -Unsaturated Carbonyl Compound as Electrophilic Component, Cycloadditions, and Boron-, Silicon-, Free-Radical-, and Metal-Mediated Reactions	2014	614	978-3-13-172831-9 10.1055/b-003-125831	Müller
Multicomponent Reactions 1 General Discussion and Reactions Involving a Carbonyl Compound as Electrophilic Component	2014	652	978-3-13-166881-3 10.1055/b-003-125816	Müller
Cross Coupling and Heck-Type Reactions 3: Metal-Catalyzed Heck-Type Reactions and C—C Cross Coupling via C—H Activation	2013	928	978-3-13-164241-7 10.1055/b-003-125731	Larhed
Cross Coupling and Heck-Type Reactions 2: Carbon—Heteroatom Cross Coupling and C—C Cross Coupling of Acidic C—H Nucleophiles	2013	742	978-3-13-164221-9 10.1055/b-003-125730	Wolfe
Cross Coupling and Heck-Type Reactions 1: C—C Cross Coupling Using Organometallic Partners	2013	1050	978-3-13-164201-1 10.1055/b-003-125729	Molander
Water in Organic Synthesis	2012	1010	978-3-13-164341-4 10.1055/b-003-121798	Kobayashi
Asymmetric Organocatalysis 2: Brønsted Base and Acid Catalysts, and Additional Topics	2012	1018	978-3-13-164381-0 10.1055/b-003-125728	Maruoka
Asymmetric Organocatalysis 1: Lewis Base and Acid Catalysts	2012	992	978-3-13-164361-2 10.1055/b-003-125727	List
Stereoselective Synthesis 3: Stereoselective Pericyclic Reactions, Cross Coupling, and C—H and C—X Activation	2011	1166	978-3-13-154131-4 10.1055/b-003-125710	Evans
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Stereoselective Synthesis 1: Stereoselective Reactions of Carbon—Carbon Double Bonds	2011	1072	978-3-13-154111-6 10.1055/b-003-125714	de Vries
Reagents: Oxidation	2010	794	978-3-13-154181-9	
Reagents: Reduction	2011	704	978-3-13-154191-8	
Reagents: Halogenation	2013	600	978-3-13-164161-8	

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1	1–8	Organometallics	8	9228		
2001	1	Compounds with Transition Metal–Carbon π -Bonds and Compounds of Groups 10–8 (Ni, Pd, Pt, Co, Rh, Ir, Fe, Ru, Os)		1152	Trost	Lautens
2003	2	Compounds of Groups 7–3 (Mn ..., Cr ..., V ..., Ti ..., Sc ..., La ..., Ac ...)		1120	Noyori	Imamoto
2004	3	Compounds of Groups 12 and 11 (Zn, Cd, Hg, Cu, Ag, Au)		874	Ley	O'Neil
2002	4	Compounds of Group 15 (As, Sb, Bi) and Silicon Compounds		1106	Ley	Fleming
2003	5	Compounds of Group 14 (Ge, Sn, Pb)		910	Thomas	Moloney
2005	6	Boron Compounds		1452	Regitz/ Schaumann	Kaufmann/ Matteson
2004	7	Compounds of Groups 13 and 2 (Al, Ga, In, Tl, Be ... Ba)		838	Noyori	H. Yamamoto
2006	8a	Compounds of Group 1 (Li ... Cs)		986	Trost	Snieckus/ Majewski
2006	8b	Compounds of Group 1 (Li ... Cs)		790	Trost	Snieckus/ Majewski
2	9–17	Hetarenes and Related Ring Systems	9	10414		
2001	9	Fully Unsaturated Small-Ring Heterocycles and Monocyclic Five-Membered Hetarenes with One Heteroatom		696	Regitz	Maas
2001	10	Fused Five-Membered Hetarenes with One Heteroatom		958	Thomas	Thomas
2002	11	Five-Membered Hetarenes with One Chalcogen and One Additional Heteroatom		1212	Schaumann	Schaumann
2002	12	Five-Membered Hetarenes with Two Nitrogen or Phosphorus Atoms		832	Bellus	Neier
2004	13	Five-Membered Hetarenes with Three or More Heteroatoms		1068	Shinkai	Storr/Gilchrist
2003	14	Six-Membered Hetarenes with One Chalcogen		1062	Thomas	Thomas
2005	15	Six-Membered Hetarenes with One Nitrogen or Phosphorus Atom		1384	Regitz	Black
2004	16	Six-Membered Hetarenes with Two Identical Heteroatoms		1632	Shinkai	Y. Yamamoto
2004	17	Six-Membered Hetarenes with Two Unlike or More than Two Heteroatoms and Fully Unsaturated Larger-Ring Heterocycles		1570	Schaumann	Weinreb

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3	18–24	Compounds with Four and Three Carbon–Heteroatom Bonds	7	8414		
2005	18	Four Carbon–Heteroatom Bonds: X–C≡X, X=C=X, X ₂ C=X, CX ₄		1460	Ley	Knight
2004	19	Three Carbon–Heteroatom Bonds: Nitriles, Isocyanides, and Derivatives		614	Shinkai	Murahashi
2006	20a	Three Carbon–Heteroatom Bonds: Acid Halides; Carboxylic Acids and Acid Salts		740	Jacobsen	Panek
2007	20b	Three Carbon–Heteroatom Bonds: Esters, and Lactones; Peroxy Acids and R(CO)OX Compounds; R(CO)X, X = S, Se, Te		1202	Jacobsen	Panek
2005	21	Three Carbon–Heteroatom Bonds: Amides and Derivatives; Peptides; Lactams		1074	Shinkai	Weinreb
2005	22	Three Carbon–Heteroatom Bonds: Thio-, Seleno-, and Tellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives		988	Thomas	Charette
2006	23	Three Carbon–Heteroatom Bonds: Ketenes and Derivatives		1088	Bellus	Danheiser
2006	24	Three Carbon–Heteroatom Bonds: Ketene Acetals and Yne–X Compounds		1248	Schaumann	de Meijere
4	25–33	Compounds with Two Carbon–Heteroatom Bonds	9	11184		
2007	25	Aldehydes		934	Schaumann	Brückner
2005	26	Ketones		1466	Thomas	Cossy
2004	27	Heteroatom Analogues of Aldehydes and Ketones		1234	Bellus	Padwa
2006	28	Quinones and Heteroatom Analogues		1046	Bellus	Griesbeck
2007	29	Acetals: Hal/X and O/O, S, Se, Te		1326	Ley	Warriner
2007	30	Acetals: O/N, S/S, S/N, and N/N and Higher Heteroatom Analogues		824	Noyori	Otera
2007	31a	Arene–X (X = Hal, O, S, Se, Te)		1362	Bellus	Ramsden
2007	31b	Arene–X (X = N, P)		1136	Bellus	Ramsden
2008	32	X–Ene–X (X = F, Cl, Br, I, O, S, Se, Te, N, P), Ene–Hal, and Ene–O Compounds		948	Schaumann	Mulzer
2007	33	Ene–X Compounds (X = S, Se, Te, N, P)		908	Trost	Molander

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5	34–42	Compounds with One Saturated Carbon–Heteroatom Bond	9	8798		
2006	34	Fluorine		424	Ley	Percy
2007	35	Chlorine, Bromine, and Iodine		850	Schaumann	Schaumann
2008	36	Alcohols		1294	Thomas	Clayden
2008	37	Ethers		992	Jacobsen	Forsyth
2009	38	Peroxides		582	Shinkai	Berkessel
2007	39	Sulfur, Selenium, and Tellurium		1384	Noyori	Kambe
2009	40a	Amines and Ammonium Salts		844	Schaumann	Enders/ Schaumann
2009	40b	Amine <i>N</i> -Oxides, Haloamines, Hydroxylamines and Sulfur Analogues, and Hydrazines		532	Schaumann	Enders/ Schaumann
2010	41	Nitro, Nitroso, Azo, Azoxy, and Diazonium Compounds, Azides, Triazenes, and Tetrazenes		770	Shinkai	Banert
2009	42	Organophosphorus Compounds (incl. RO–P and RN–P)		1126	Trost	Mathey
6	43–48	Compounds with All-Carbon Functions	6	5667		
2008	43	Polyynes, Arynes, Enynes, and Alkynes		744	Thomas	Hopf
2008	44	Cumulenes and Allenes		508	Bellus	Krause
2009	45a	Monocyclic Arenes, Quasiarenes, and Annulenes		545	Shinkai	Siegel/Tobe
2010	45b	Aromatic Ring Assemblies, Polycyclic Aromatic Hydrocarbons, and Conjugated Polyenes		994	Shinkai	Siegel/Tobe
2009	46	1,3-Dienes		744	Trost	Rawal/ Kozmin
2010	47a	Alkenes		632	Jacobsen	de Meijere
2010	47b	Alkenes		670	Jacobsen	de Meijere
2009	48	Alkanes		830	Schaumann	Hiemstra