Lutz Ackermann

List of Publications by Citations

649 papers	54,655 citations	119 h-index	205 g-index
693 ext. papers	61,914 ext. citations	8.8 avg, IF	8.93 L-index

#	Paper	IF	Citations
649	Carboxylate-assisted transition-metal-catalyzed C-H bond functionalizations: mechanism and scope. *Chemical Reviews*, **2011**, 111, 1315-45	68.1	2825
648	Transition-metal-catalyzed direct arylation of (hetero)arenes by C-H bond cleavage. *Angewandte Chemie - International Edition*, **2009**, 48, 9792-826	16.4	2470
647	Carboxylate-assisted ruthenium-catalyzed alkyne annulations by C-H/Het-H bond functionalizations. *Accounts of Chemical Research*, **2014**, 47, 281-95	24.3	1356
646	3d Transition Metals for C-H Activation. *Chemical Reviews*, **2019**, 119, 2192-2452	68.1	1073
645	Cobalt-Catalyzed C□H Activation. *ACS Catalysis*, **2016**, 6, 498-525	13.1	916
644	□bergangsmetallkatalysierte direkte Arylierungen von (Hetero)Arenen durch C-H-Bindungsbruch. *Angewandte Chemie*, **2009**, 121, 9976-10011	3.6	768
643	Weakly Coordinating Directing Groups for Ruthenium(II)- Catalyzed C?H Activation. *Advanced Synthesis and Catalysis*, **2014**, 356, 1461-1479	5.6	610
642	Ruthenium-catalyzed direct oxidative alkenylation of arenes through twofold C□H bond functionalization. *Chemical Science*, **2013**, 4, 886-896	9.4	538
641	Metal-catalyzed direct alkylations of (hetero)arenes via C-H bond cleavages with unactivated alkyl halides. *Chemical Communications*, **2010**, 46, 4866-77	5.8	452
640	Manganese-Catalyzed C□H Activation. *ACS Catalysis*, **2016**, 6, 3743-3752	13.1	448
639	Ruthenium-catalyzed oxidative annulation by cleavage of C-H/N-H bonds. *Angewandte Chemie - International Edition*, **2011**, 50, 6379-82	16.4	410
638	General and efficient indole syntheses based on catalytic amination reactions. *Organic Letters*, **2005** , 7, 439-42	6.2	398
637	Electrocatalytic C□H Activation. *ACS Catalysis*, **2018**, 8, 7086-7103	13.1	394
636	Ruthenium carbene complexes with N,N'-bis(mesityl)imidazol-2-ylidene ligands: RCM catalysts of extended scope. *Journal of Organic Chemistry*, **2000**, 65, 2204-7	4.2	393
635	Transient Directing Groups for Transformative C□H Activation by Synergistic Metal Catalysis. *CheM*, **2018**, 4, 199-222	16.2	392
634	Comparative investigation of ruthenium-based metathesis catalysts bearing N-heterocyclic carbene (NHC) ligands. *Chemistry - A European Journal*, **2001**, 7, 3236-53	4.8	387
633	meta-Selective C-H bond alkylation with secondary alkyl halides. *Journal of the American Chemical Society*, **2013**, 135, 5877-84	16.4	367

632	Ruthenium carbene complexes with imidazolin-2-ylidene ligands allow the formation of tetrasubstituted cycloalkenes by RCM. *Tetrahedron Letters*, **1999**, 40, 4787-4790	2	359
631	Catalytic arylation reactions by C-H bond activation with aryl tosylates. *Angewandte Chemie - International Edition*, **2006**, 45, 2619-22	16.4	346
630	Catalytic Arylations with Challenging Substrates: From Air-Stable HASPO Preligands to Indole Syntheses and C-H-Bond Functionalizations. *Synlett*, **2007**, 2007, 0507-0526	2.2	344
629	Assisted ruthenium-catalyzed C-H bond activation: carboxylic acids as cocatalysts for generally applicable direct arylations in apolar solvents. *Organic Letters*, **2008**, 10, 2299-302	6.2	338
628	Cooperative Self-Assembly of Double-Strand Conjugated Porphyrin Ladders. *Journal of the American Chemical Society*, **1999**, 121, 11538-11545	16.4	336
627	C-H nitrogenation and oxygenation by ruthenium catalysis. *Chemical Communications*, **2014**, 50, 29-39	5.8	333
626	Phosphine oxides as preligands in ruthenium-catalyzed arylations via C-H bond functionalization using aryl chlorides. *Organic Letters*, **2005**, 7, 3123-5	6.2	330
625	Cobalt-catalyzed C-H arylations, benzylations, and alkylations with organic electrophiles and beyond. *Journal of Organic Chemistry*, **2014**, 79, 8948-54	4.2	328
624	Ruthenium-catalyzed C-H/N-O bond functionalization: green isoquinolone syntheses in water. *Organic Letters*, **2011**, 13, 6548-51	6.2	317
623	Cationic ruthenium(II) catalysts for oxidative C-H/N-H bond functionalizations of anilines with removable directing group: synthesis of indoles in water. *Organic Letters*, **2012**, 14, 764-7	6.2	316
622	Copper-catalyzed "click" reaction/direct arylation sequence: modular syntheses of 1,2,3-triazoles. *Organic Letters*, **2008**, 10, 3081-4	6.2	294
621	Palladium-catalyzed direct arylations of heteroarenes with tosylates and mesylates. *Angewandte Chemie - International Edition*, **2009**, 48, 201-4	16.4	293
620	Cobalt-catalyzed C-H cyanation of arenes and heteroarenes. *Angewandte Chemie - International Edition*, **2015**, 54, 3635-8	16.4	283
619	Ruthenium-catalyzed oxidative C-H bond alkenylations in water: expedient synthesis of annulated lactones. *Organic Letters*, **2011**, 13, 4153-5	6.2	280
618	Ruthenium-catalyzed regioselective direct alkylation of arenes with unactivated alkyl halides through C-H bond cleavage. *Angewandte Chemie - International Edition*, **2009**, 48, 6045-8	16.4	275
617	Recent advances in positional-selective alkenylations: removable guidance for twofold C–H activation. *Organic Chemistry Frontiers*, **2017**, 4, 1435-1467	5.2	260
616	Robust Ruthenium(II)-Catalyzed C–H Arylations: Carboxylate Assistance for the Efficient Synthesis of Angiotensin-II-Receptor Blockers. *Organic Process Research and Development*, **2015**, 19, 260-269	3.9	251
615	Ruthenium-catalyzed direct C-H bond arylations of heteroarenes. *Organic Letters*, **2011**, 13, 3332-5	6.2	249

614	Domino N-H/C-H bond activation: palladium-catalyzed synthesis of annulated heterocycles using dichloro(hetero)arenes. *Angewandte Chemie - International Edition*, **2007**, 46, 1627-9	16.4	249
613	N-Acyl Amino Acid Ligands for Ruthenium(II)-Catalyzed meta-C-H tert-Alkylation with Removable Auxiliaries. *Journal of the American Chemical Society*, **2015**, 137, 13894-901	16.4	245
612	Nickel-catalyzed C-H alkylations: direct secondary alkylations and trifluoroethylations of arenes. *Angewandte Chemie - International Edition*, **2014**, 53, 2477-80	16.4	238
611	Metalla-electrocatalyzed C-H Activation by Earth-Abundant 3d Metals and Beyond. *Accounts of Chemical Research*, **2020**, 53, 84-104	24.3	238
610	Versatile synthesis of isocoumarins and □pyrones by ruthenium-catalyzed oxidative C-H/O-H bond cleavages. *Organic Letters*, **2012**, 14, 930-3	6.2	235
609	Mechanistic insight into direct arylations with ruthenium(II) carboxylate catalysts. *Organic Letters*, **2010**, 12, 5032-5	6.2	235
608	Electrochemical Cobalt-Catalyzed C-H Oxygenation at Room Temperature. *Journal of the American Chemical Society*, **2017**, 139, 18452-18455	16.4	232
607	Ruthenium-catalyzed oxidative C-H alkenylations of anilides and benzamides in water. *Organic Letters*, **2012**, 14, 728-31	6.2	231
606	Cobalt-catalyzed direct arylation and benzylation by C-H/C-O cleavage with sulfamates, carbamates, and phosphates. *Angewandte Chemie - International Edition*, **2012**, 51, 8251-4	16.4	227
605	Regioselective syntheses of fully-substituted 1,2,3-triazoles: the CuAAC/C-H bond functionalization nexus. *Organic and Biomolecular Chemistry*, **2010**, 8, 4503-13	3.9	220
604	Iron-catalyzed C(sp(2))-H and C(sp(3))-H arylation by triazole assistance. *Angewandte Chemie - International Edition*, **2014**, 53, 3868-71	16.4	219
603	Efficient aryl-(hetero)aryl coupling by activation of C-Cl and C-F bonds using nickel complexes of air-stable phosphine oxides. *Angewandte Chemie - International Edition*, **2005**, 44, 7216-9	16.4	209
602	Ruthenium-catalyzed direct arylations through C-H bond cleavages. *Topics in Current Chemistry*, **2010**, 292, 211-29		208
601	Ruthenium(II)-catalyzed C-H activation/alkyne annulation by weak coordination with O2 as the sole oxidant. *Angewandte Chemie - International Edition*, **2015**, 54, 5513-7	16.4	205
600	Manganese-Catalyzed C-H Alkynylation: Expedient Peptide Synthesis and Modification. *Angewandte Chemie - International Edition*, **2017**, 56, 3172-3176	16.4	204
599	Enantioselective C-H Activation with Earth-Abundant 3d Transition Metals. *Angewandte Chemie - International Edition*, **2019**, 58, 12803-12818	16.4	199
598	Full Selectivity Control in Cobalt(III)-Catalyzed C-H Alkylations by Switching of the C-H Activation Mechanism. *Angewandte Chemie - International Edition*, **2017**, 56, 10378-10382	16.4	194
597	NMDA spikes enhance action potential generation during sensory input. *Nature Neuroscience*, **2014**, 17, 383-90	25.5	194

596	Use of group 4 bis(sulfonamido) complexes in the intramolecular hydroamination of alkynes and allenes. *Journal of the American Chemical Society*, **2003**, 125, 11956-63	16.4	193
595	Oxazolinyl-Assisted C–H Amidation by Cobalt(III) Catalysis. *ACS Catalysis*, **2016**, 6, 793-797	13.1	192
594	Air- and Moisture-Stable Secondary Phosphine Oxides as Preligands in Catalysis. *Synthesis*, **2006**, 2006, 1557-1571	2.9	191
593	Late-Stage Peptide Diversification by Position-Selective C-H Activation. *Angewandte Chemie - International Edition*, **2018**, 57, 14700-14717	16.4	188
592	Rutheniumkatalysierte regioselektive direkte Alkylierungen von Arenen mit nichtaktivierten Alkylhalogeniden unter C-H-Bindungsspaltung. *Angewandte Chemie*, **2009**, 121, 6161-6164	3.6	187
591	Merging allylic carbon-hydrogen and selective carbon-carbon bond activation. *Nature*, **2014**, 505, 199-203	30.4	184
590	Palladium-catalyzed direct arylations, alkenylations, and benzylations through C-H bond cleavages with sulfamates or phosphates as electrophiles. *Organic Letters*, **2010**, 12, 724-6	6.2	184
589	Electrochemical C-H Amination by Cobalt Catalysis in a Renewable Solvent. *Angewandte Chemie - International Edition*, **2018**, 57, 5090-5094	16.4	180
588	Carboxylate-assisted ruthenium-catalyzed direct alkylations of ketimines. *Organic Letters*, **2011**, 13, 1875-7	6.2	179
587	Ruthenium-catalyzed oxidative synthesis of 2-pyridones through C-H/N-H bond functionalizations. *Organic Letters*, **2011**, 13, 3278-81	6.2	177
586	Cobalt(III)-Catalyzed Aryl and Alkenyl C-H Aminocarbonylation with Isocyanates and Acyl Azides. *Angewandte Chemie - International Edition*, **2015**, 54, 8551-4	16.4	171
585	Electrochemical C-H/N-H Activation by Water-Tolerant Cobalt Catalysis at Room Temperature. *Angewandte Chemie - International Edition*, **2018**, 57, 2383-2387	16.4	171
584	Ruthenium-catalyzed aerobic oxidative coupling of alkynes with 2-aryl-substituted pyrroles. *Chemical Science*, **2012**, 3, 177-180	9.4	168
583	Electroremovable Traceless Hydrazides for Cobalt-Catalyzed Electro-Oxidative C-H/N-H Activation with Internal Alkynes. *Journal of the American Chemical Society*, **2018**, 140, 7913-7921	16.4	168
582	Cobalt(III)-Catalyzed C-H/N-O Functionalizations: Isohypsic Access to Isoquinolines. *Chemistry - A European Journal*, **2015**, 21, 15525-8	4.8	163
581	Heterogeneous catalytic approaches in C–H activation reactions. *Green Chemistry*, **2016**, 18, 3471-3493	10	159
580	Versatile pyrrole synthesis through ruthenium(II)-catalyzed alkene C-H bond functionalization on enamines. *Organic Letters*, **2013**, 15, 176-9	6.2	158
579	Cobalt(II)-Catalyzed Oxidative C–H Alkenylations: Regio- and Site-Selective Access to Isoindolin-1-one. *ACS Catalysis*, **2015**, 5, 2822-2825	13.1	157

578	Transition-metal-catalyzed carboxylation of C-H bonds. *Angewandte Chemie - International Edition*, **2011**, 50, 3842-4	16.4	157
577	Manganese(I)-Catalyzed Substitutive C-H Allylation. *Angewandte Chemie - International Edition*, **2016**, 55, 7747-50	16.4	156
576	Cobalt-catalyzed C-H bond functionalizations with aryl and alkyl chlorides. *Chemistry - A European Journal*, **2013**, 19, 10605-10	4.8	154
575	Palladium-Catalyzed Direct Arylations of 1,2,3-Triazoles with Aryl Chlorides using Conventional Heating. *Advanced Synthesis and Catalysis*, **2008**, 350, 741-748	5.6	154
574	Overcoming the Limitations of C-H Activation with Strongly Coordinating N-Heterocycles by Cobalt Catalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 10386-90	16.4	153
573	Expedient C-H amidations of heteroaryl arenes catalyzed by versatile ruthenium(II) catalysts. *Organic Letters*, **2013**, 15, 3286-9	6.2	153
572	Manganese-catalyzed synthesis of cis-β-amino acid esters through organometallic C-H activation of ketimines. *Angewandte Chemie - International Edition*, **2015**, 54, 4092-6	16.4	152
571	Expedient Iron-Catalyzed C-H Allylation/Alkylation by Triazole Assistance with Ample Scope. *Angewandte Chemie - International Edition*, **2016**, 55, 1484-8	16.4	152
570	Ruthenium(II)-Catalyzed Decarboxylative C-H Activation: Versatile Routes to meta-Alkenylated Arenes. *Angewandte Chemie - International Edition*, **2016**, 55, 6929-32	16.4	151
569	Nickel-catalyzed alkyne annulation by anilines: versatile indole synthesis by C-H/N-H functionalization. *Chemical Communications*, **2013**, 49, 6638-40	5.8	151
568	Olefin metathesis in supercritical carbon dioxide. *Journal of the American Chemical Society*, **2001**, 123, 9000-6	16.4	151
567	Catalytic direct arylations in polyethylene glycol (PEG): recyclable palladium(0) catalyst for C-H bond cleavages in the presence of air. *Organic Letters*, **2009**, 11, 4922-5	6.2	150
566	Aromatic and antiaromatic ring currents in a molecular nanoring. *Nature*, **2017**, 541, 200-203	50.4	149
565	Ruthenium-catalyzed C-H bond arylations of arenes bearing removable directing groups via six-membered ruthenacycles. *Organic Letters*, **2012**, 14, 1154-7	6.2	149
564	Ruthenium(II)-catalyzed oxidative C-H alkenylations of sulfonic acids, sulfonyl chlorides and sulfonamides. *Chemistry - A European Journal*, **2014**, 20, 15248-51	4.8	148
563	Cationic ruthenium catalysts for alkyne annulations with oximes by C-H/N-O functionalizations. *Journal of Organic Chemistry*, **2012**, 77, 9190-8	4.2	148
562	Ruthenium(IV) alkylidenes as precatalysts for direct arylations of alkenes with aryl chlorides and an application to sequential catalysis. *Angewandte Chemie - International Edition*, **2007**, 46, 6364-7	16.4	148
561	Chelation-Assisted Arylation via C–H Bond Cleavage. *Topics in Organometallic Chemistry*, **2007**, 35-60	0.6	148

560	Air-stable PinP(O)H as preligand for palladium-catalyzed Kumada couplings of unactivated tosylates. *Organic Letters*, **2006**, 8, 3457-60	6.2	147
559	Aldehyde-assisted ruthenium(II)-catalyzed C-H oxygenations. *Angewandte Chemie - International Edition*, **2014**, 53, 11285-8	16.4	146
558	Electrooxidative Ruthenium-Catalyzed C-H/O-H Annulation by Weak O-Coordination. *Angewandte Chemie - International Edition*, **2018**, 57, 5818-5822	16.4	145
557	Dehydrative direct arylations of arenes with phenols via ruthenium-catalyzed C-H and C-OH bond functionalizations. *Organic Letters*, **2008**, 10, 5043-5	6.2	145
556	Biomass-derived solvents as effective media for cross-coupling reactions and CH functionalization processes. *Green Chemistry*, **2017**, 19, 1601-1612	10	143
555	Cobalt(III)-Catalyzed C-H Alkynylation with Bromoalkynes under Mild Conditions. *Organic Letters*, **2015**, 17, 5316-9	6.2	143
554	Ruthenium-Catalyzed Oxidative Annulation by Cleavage of C?H/N?H Bonds. *Angewandte Chemie*, **2011**, 123, 6503-6506	3.6	143
553	Mild C-H/C-C Activation by Z-Selective Cobalt Catalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 7408-12	16.4	143
552	Metal-free direct arylations of indoles and pyrroles with diaryliodonium salts. *Organic Letters*, **2011**, 13, 2358-60	6.2	142
551	Ruthenium(II)-Catalyzed meta C-H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. *Angewandte Chemie - International Edition*, **2017**, 56, 2045-2049	16.4	141
550	Hydroxyl-directed ruthenium-catalyzed C-H bond functionalization: versatile access to fluorescent pyrans. *Organic Letters*, **2012**, 14, 3416-9	6.2	141
549	CH/CH Functionalization by Manganese(I) Catalysis: Expedient (Per)Fluoro-Allylations and Alkenylations. *ACS Catalysis*, **2017**, 7, 4209-4213	13.1	140
548	Carboxylate-assisted ruthenium(II)-catalyzed hydroarylations of unactivated alkenes through C-H cleavage. *Angewandte Chemie - International Edition*, **2013**, 52, 3977-80	16.4	139
547	Ruthenium Oxidase Catalysis for Site-Selective C-H Alkenylations with Ambient O2 as the Sole Oxidant. *Angewandte Chemie - International Edition*, **2016**, 55, 264-7	16.4	137
546	Electrooxidative Rhodium-Catalyzed C-H/C-H Activation: Electricity as Oxidant for Cross-Dehydrogenative Alkenylation. *Angewandte Chemie - International Edition*, **2018**, 57, 5828-5832	16.4	136
545	Direct arylations of electron-deficient (hetero)arenes with aryl or alkenyl tosylates and mesylates. *Chemical Communications*, **2011**, 47, 430-2	5.8	135
544	Ortho- and para-selective ruthenium-catalyzed C(sp2)-H oxygenations of phenol derivatives. *Organic Letters*, **2013**, 15, 3484-6	6.2	133
543	Resource Economy by Metallaelectrocatalysis: Merging Electrochemistry and C H Activation. *Trends in Chemistry*, **2019**, 1, 63-76	14.8	132

542	Selective Synthesis of Indoles by Cobalt(III)-Catalyzed C–H/N–O Functionalization with Nitrones. *ACS Catalysis*, **2016**, 6, 2705-2709	13.1	132
541	A highly reactive titanium precatalyst for intramolecular hydroamination reactions. *Organic Letters*, **2002**, 4, 1475-8	6.2	132
540	Regioselective ruthenium-catalyzed direct benzylations of arenes through C-H bond cleavages. *Organic Letters*, **2009**, 11, 4966-9	6.2	130
539	Well-defined ruthenium(II) carboxylate as catalyst for direct C-H/C-O bond arylations with phenols in water. *Organic Letters*, **2012**, 14, 2146-9	6.2	129
538	Katalytische Arylierungen über C-H-Bindungsaktivierung mit Aryltosylaten. *Angewandte Chemie*, **2006**, 118, 2681-2685	3.6	129
537	Direct C–H bond arylations and alkenylations with phenol-derived fluorine-free electrophiles. *Catalysis Science and Technology*, **2013**, 3, 562-571	5.5	128
536	Palladium-catalyzed dehydrogenative direct arylations of 1,2,3-triazoles. *Organic Letters*, **2010**, 12, 2056-9	6.2	128
535	Amidines for Versatile Cobalt(III)-Catalyzed Synthesis of Isoquinolines through C-H Functionalization with Diazo Compounds. *Organic Letters*, **2016**, 18, 2742-5	6.2	127
534	Expedient C–H Chalcogenation of Indolines and Indoles by Positional-Selective Copper Catalysis. *ACS Catalysis*, **2017**, 7, 1030-1034	13.1	126
533	meta- and para-Selective C–H Functionalization by C–H Activation. *Topics in Organometallic Chemistry*, **2015**, 217-257	0.6	126
532	Oxidative alkenylation of aromatic esters by ruthenium-catalyzed twofold C-H bond cleavages. *Organic Letters*, **2012**, 14, 4110-3	6.2	125
531	TiCl4/t-BuNH2 as the sole catalyst for a hydroamination-based Fischer indole synthesis. *Tetrahedron Letters*, **2004**, 45, 9541-9544	2	124
530	Ruthenium-catalyzed C-H bond oxygenations with weakly coordinating ketones. *Organic Letters*, **2012**, 14, 6206-9	6.2	118
529	TiCl4-catalyzed indirect anti-Markovnikov hydration of alkynes: application to the synthesis of benzo[b]furans. *Journal of Organic Chemistry*, **2007**, 72, 6149-53	4.2	118
528	[RuCl3(H2O)n]-catalyzed direct arylations. *Tetrahedron*, **2008**, 64, 6115-6124	2.4	115
527	Manganese(I)-Catalyzed C-H Aminocarbonylation of Heteroarenes. *Angewandte Chemie - International Edition*, **2015**, 54, 14137-40	16.4	114
526	Rotaxane-encapsulated cyanine dyes: enhanced fluorescence efficiency and photostability. *Chemical Communications*, **2000**, 905-906	5.8	114
525	Air-stable phosphine oxides as preligands for catalytic activation reactions of C-Cl, C-F, and C-H bonds. *Pure and Applied Chemistry*, **2006**, 78, 209-214	2.1	113

524	Bioorthogonal Diversification of Peptides through Selective Ruthenium(II)-Catalyzed C-H Activation. *Angewandte Chemie - International Edition*, **2017**, 56, 1576-1580	16.4	111
523	C-H alkenylations with alkenyl acetates, phosphates, carbonates, and carbamates by cobalt catalysis at 23 ℃. *Angewandte Chemie - International Edition*, **2015**, 54, 6352-5	16.4	111
522	Modular diamino- and dioxophosphine oxides and chlorides as ligands for transition-metal-catalyzed C--C and C--N couplings with aryl chlorides. *Angewandte Chemie - International Edition*, **2005**, 44, 2444-7	16.4	110
521	A General Strategy for the Nickel-Catalyzed C-H Alkylation of Anilines. *Angewandte Chemie - International Edition*, **2016**, 55, 3153-7	16.4	110
520	Air-Stable Manganese(I)-Catalyzed C-H Activation for Decarboxylative C-H/C-O Cleavages in Water. *Angewandte Chemie - International Edition*, **2017**, 56, 6339-6342	16.4	109
519	Enantioselective syntheses of indanes: from organocatalysis to C-H functionalization. *Chemical Society Reviews*, **2016**, 45, 1368-86	58.5	107
518	Enantioselective Cobalt(III)-Catalyzed C-H Activation Enabled by Chiral Carboxylic Acid Cooperation. *Angewandte Chemie - International Edition*, **2018**, 57, 15425-15429	16.4	107
517	Ruthenium(II)-catalysed remote C-H alkylations as a versatile platform to meta-decorated arenes. *Nature Communications*, **2017**, 8, 15430	17.4	104
516	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C-H/C-C Activation. *Angewandte Chemie - International Edition*, **2017**, 56, 9415-9419	16.4	104
515	Ruthenium-catalyzed oxidative C(sp2)-H bond hydroxylation: site-selective C-O bond formation on benzamides. *Organic Letters*, **2012**, 14, 4210-3	6.2	104
514	Transition-metal-catalyzed direct arylations via C H bond cleavages. *Pure and Applied Chemistry*, **2010**, 82, 1403-1413	2.1	104
513	Palladiumkatalysierte direkte Arylierungen von Heteroarenen mit Tosylaten und Mesylaten. *Angewandte Chemie*, **2009**, 121, 207-210	3.6	104
512	Photoinduced Copper-Catalyzed C-H Arylation at Room Temperature. *Angewandte Chemie - International Edition*, **2016**, 55, 4759-62	16.4	104
511	Exploiting the reversibility of olefin metathesis. Syntheses of macrocyclic trisubstituted alkenes and (R,R)-(-)-pyrenophorin. *Organic Letters*, **2001**, 3, 449-51	6.2	103
510	Powering the Future: How Can Electrochemistry Make a Difference in Organic Synthesis?. *CheM*, **2020**, 6, 2484-2496	16.2	103
509	C-H Alkylations of (Hetero)Arenes by Maleimides and Maleate Esters through Cobalt(III) Catalysis. *Organic Letters*, **2017**, 19, 3315-3318	6.2	102
508	Three-component indole synthesis using ortho-dihaloarenes. *Tetrahedron*, **2005**, 61, 11311-11316	2.4	102
507	Synthesis and third order nonlinear optics of a new soluble conjugated porphyrin polymer. *Journal of Materials Chemistry*, **2001**, 11, 312-320		102

506	Cobalt-Catalyzed Oxidase C-H/N-H Alkyne Annulation: Mechanistic Insights and Access to Anticancer Agents. *Chemistry - A European Journal*, **2016**, 22, 6759-63	4.8	102
505	Ruthenium-catalyzed C-H/O-H and C-H/N-H bond functionalizations: oxidative annulations of cyclopropyl-substituted alkynes. *Organic and Biomolecular Chemistry*, **2013**, 11, 142-8	3.9	101
504	Ruthenium-catalyzed ortho-C-H halogenations of benzamides. *Chemical Communications*, **2014**, 50, 1083-5	6.8	101
503	meta-C-H Bromination on Purine Bases by Heterogeneous Ruthenium Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 1557-1560	16.4	99
502	Heteromultimetallic catalysis for sustainable organic syntheses. *Chemical Society Reviews*, **2017**, 46, 7399-7420	38.5	99
501	Palladium- and nickel-catalyzed aminations of aryl imidazolylsulfonates and sulfamates. *Organic Letters*, **2011**, 13, 1784-6	6.2	99
500	Dramatic enhancement of intrinsic two-photon absorption in a conjugated porphyrin dimer. *Physical Chemistry Chemical Physics*, **2004**, 6, 7	3.6	99
499	Versatile ruthenium(II)-catalyzed C-H cyanations of benzamides. *Chemical Communications*, **2014**, 50, 1878-81	5.8	98
498	Internal Peptide Late-Stage Diversification: Peptide-Isosteric Triazoles for Primary and Secondary C(sp)-H Activation. *Angewandte Chemie - International Edition*, **2018**, 57, 203-207	16.4	98
497	C4-H indole functionalisation: precedent and prospects. *Chemical Science*, **2018**, 9, 4203-4216	9.4	97
496	Cobalt-Catalyzed C?H Cyanation of Arenes and Heteroarenes. *Angewandte Chemie*, **2015**, 127, 3706-3709	3.6	96
495	Asymmetric Iron-Catalyzed C-H Alkylation Enabled by Remote Ligand meta-Substitution. *Angewandte Chemie - International Edition*, **2017**, 56, 14197-14201	16.4	95
494	Ruthenium-catalyzed hydroarylations of methylenecyclopropanes: mild C-H bond functionalizations with conservation of cyclopropane rings. *Organic Letters*, **2008**, 10, 3409-12	6.2	95
493	Iron-Catalyzed C-H Functionalization Processes. *Topics in Current Chemistry*, **2016**, 374, 57	7.2	95
492	C-H activation: Following directions. *Nature Chemistry*, **2015**, 7, 686-7	17.6	94
491	Electrochemical Cobalt-Catalyzed C-H Activation. *Chemistry - A European Journal*, **2018**, 24, 16209-16217	4.8	94
490	Ruthenium-catalyzed C-H oxygenation on aryl Weinreb amides. *Organic Letters*, **2013**, 15, 718-20	6.2	94
489	Ruthenium-catalyzed direct arylations of N-aryl 1,2,3-triazoles with aryl chlorides as electrophiles. *ChemSusChem*, **2009**, 2, 546-9	8.3	94

488	A most user-friendly protocol for ring closing metathesis reactions. *Chemical Communications*, **1999**, 95-96	5.8	94
487	Kumada-Corriu cross-couplings with 2-pyridyl Grignard reagents. *Chemistry - A European Journal*, **2010**, 16, 3300-3	4.8	93
486	Cobalt(III)-Catalyzed Hydroarylation of Allenes via C–H Activation. *ACS Catalysis*, **2017**, 7, 2511-2515	13.1	92
485	Polyyne Rotaxanes: Stabilization by Encapsulation. *Journal of the American Chemical Society*, **2016**, 138, 1366-76	16.4	92
484	Air-stable secondary phosphine oxide as preligand for palladium-catalyzed intramolecular alpha-arylations with chloroarenes. *Organic Letters*, **2009**, 11, 4274-6	6.2	92
483	Tetra-ortho-substituted biaryls through palladium-catalyzed Suzuki-Miyaura couplings with a diaminochlorophosphine ligand. *Organic Letters*, **2010**, 12, 1004-7	6.2	91
482	[RuCl3(H2O)n]-Catalyzed Direct Arylations with Bromides as Electrophiles. *Synlett*, **2007**, 2007, 2833-2836	2.2	91
481	Iridium-Catalyzed Electrooxidative C-H Activation by Chemoselective Redox-Catalyst Cooperation. *Angewandte Chemie - International Edition*, **2018**, 57, 14179-14183	16.4	91
480	Synergistic Manganese(I) C-H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. *Angewandte Chemie - International Edition*, **2017**, 56, 15063-15067	16.4	90
479	Ultrafast delocalization of excitation in synthetic light-harvesting nanorings. *Chemical Science*, **2015**, 6, 181-189	9.4	90
478	Amidines for versatile ruthenium(II)-catalyzed oxidative C-H activations with internal alkynes and acrylates. *Chemistry - A European Journal*, **2014**, 20, 5403-8	4.8	89
477	Ruthenium(II)-Catalyzed C-H Functionalizations with Allenes: Versatile Allenylations and Allylations. *Chemistry - A European Journal*, **2015**, 21, 16246-51	4.8	89
476	Iron-catalyzed C(sp(2))-H and C(sp(3))-H methylations of amides and anilides. *Chemistry - A European Journal*, **2015**, 21, 8812-5	4.8	88
475	Cobalt-catalysed C-H methylation for late-stage drug diversification. *Nature Chemistry*, **2020**, 12, 511-519	17.6	88
474	Nickel-Catalyzed C–H Alkynylation of Anilines: Expedient Access to Functionalized Indoles and Purine Nucleobases. *ACS Catalysis*, **2016**, 6, 4690-4693	13.1	88
473	Electrooxidative Allene Annulations by Mild Cobalt-Catalyzed C–H Activation. *ACS Catalysis*, **2018**, 8, 9140-9147	13.1	88
472	Ruthenium(II)-catalyzed C-H alkenylations of phenols with removable directing groups. *Chemistry - A European Journal*, **2013**, 19, 13925-8	4.8	88
471	Titanium-catalyzed intermolecular hydroamination of vinylarenes. *Angewandte Chemie - International Edition*, **2005**, 44, 5972-4	16.4	88

470	C-H arylations of 1,2,3-triazoles by reusable heterogeneous palladium catalysts in biomass-derived γ-valerolactone. *Chemical Communications*, **2016**, 52, 9777-80	5.8	88
469	Self-Assembly of Russian Doll Concentric Porphyrin Nanorings. *Journal of the American Chemical Society*, **2015**, 137, 12713-8	16.4	87
468	TiCl4-Catalyzed Intermolecular Hydroamination Reactions. *Organometallics*, **2003**, 22, 4367-4368	3.8	87
467	Sequential meta-/ortho-C–H Functionalizations by One-Pot Ruthenium(II/III) Catalysis. *ACS Catalysis*, **2018**, 8, 886-892	13.1	87
466	BODIPY Peptide Labeling by Late-Stage C(sp)-H Activation. *Angewandte Chemie - International Edition*, **2018**, 57, 10554-10558	16.4	86
465	Manganese-Catalyzed C–H Alkynylation: Expedient Peptide Synthesis and Modification. *Angewandte Chemie*, **2017**, 129, 3220-3224	3.6	85
464	Flow Rhodaelectro-Catalyzed Alkyne Annulations by Versatile C-H Activation: Mechanistic Support for Rhodium(III/IV). *Journal of the American Chemical Society*, **2019**, 141, 17198-17206	16.4	85
463	Mild Cobalt(III)-Catalyzed Allylative C-F/C-H Functionalizations at Room Temperature. *Chemistry - A European Journal*, **2017**, 23, 12145-12148	4.8	85
462	Ruthenium-Catalyzed C-H Bond Functionalizations of 1,2,3-Triazol-4-yl-Substituted Arenes: Dehydrogenative Couplings Versus Direct Arylations. *Synthesis*, **2010**, 2010, 2245-2253	2.9	85
461	A diaminochlorophosphine for palladium-catalyzed arylations of amines and ketones. *Angewandte Chemie - International Edition*, **2006**, 45, 7627-30	16.4	85
460	Two methods for amplifying the optical nonlinearity of a conjugated porphyrin polymer: transmetallation and self-assembly. *Journal of Materials Chemistry*, **2003**, 13, 2796-2808		85
459	Enantioselektive C-H-Aktivierung mit natürlich vorkommenden 3d-Übergangsmetallen. *Angewandte Chemie*, **2019**, 131, 12934-12949	3.6	84
458	Enantioselective Pallada-Electrocatalyzed C-H Activation by Transient Directing Groups: Expedient Access to Helicenes. *Angewandte Chemie - International Edition*, **2020**, 59, 13451-13457	16.4	84
457	Visible-Light-Enabled Ruthenium-Catalyzed meta-C-H Alkylation at Room Temperature. *Angewandte Chemie - International Edition*, **2019**, 58, 9820-9825	16.4	83
456	Copper-Catalyzed N-Arylation/Hydroamin(d)ation Domino Synthesis of Indoles and its Application to the Preparation of a Chek1/KDR Kinase Inhibitor Pharmacophore. *Advanced Synthesis and Catalysis*, **2009**, 351, 1064-1072	5.6	83
455	Electro-Oxidative C-C Alkenylation by Rhodium(III) Catalysis. *Journal of the American Chemical Society*, **2019**, 141, 2731-2738	16.4	83
454	Cross-coupling reactions of aryl and vinyl chlorides catalyzed by a palladium complex derived from an air-stable H-phosphonate. *Chemical Communications*, **2006**, 1419-21	5.8	82
453	Full Selectivity Control in Cobalt(III)-Catalyzed C–H Alkylations by Switching of the C–H Activation Mechanism. *Angewandte Chemie*, **2017**, 129, 10514-10518	3.6	81

452	Late-Stage Peptide Diversification by Bioorthogonal Catalytic C-H Arylation at 23 °C in H2 O. *Chemistry - A European Journal*, **2015**, 21, 9980-3	4.8	81
451	Making conjugated connections to porphyrins: a comparison of alkyne, alkene, imine and azo links. *Journal of the Chemical Society, Perkin Transactions 1*, **2002**, 320-329		81
450	Ruthenium-catalyzed oxidative C-H alkenylation of aryl carbamates. *Chemical Communications*, **2012**, 48, 11343-5	5.8	80
449	Nickel-Catalyzed Electrooxidative C-H Amination: Support for Nickel(IV). *Chemistry - A European Journal*, **2018**, 24, 19166-19170	4.8	80
448	Manganese(I)-Catalyzed Dispersion-Enabled C-H/C-C Activation. *Chemistry - A European Journal*, **2017**, 23, 5443-5447	4.8	79
447	Ruthenium(II)-catalyzed C(sp3)-H alkylation of pyrrolidines. *Organic Letters*, **2014**, 16, 1876-9	6.2	79
446	Ruthenium-catalyzed alkyne annulations with substituted 1H-pyrazoles by C-H/N-H bond functionalizations. *Organic Letters*, **2012**, 14, 6318-21	6.2	79
445	Palladium-Catalyzed Direct C-3 Arylations of Indoles with an Air-Stable HASPO. *Synlett*, **2009**, 2009, 808-812	2.2	78
444	Domino-N-H/C-H-Bindungsaktivierung: palladiumkatalysierte Synthese von anellierten Heterocyclen mit Dichlor(hetero)arenen. *Angewandte Chemie*, **2007**, 119, 1652-1654	3.6	78
443	Hydroamination/Heck reaction sequence for a highly regioselective one-pot synthesis of indoles using 2-chloroaniline. *Chemical Communications*, **2004**, 2824-5	5.8	78
442	Ruthenium Carbene Complexes with Imidazol-2-ylidene Ligands: Syntheses of Conduritol Derivatives Reveals Superior RCM Activity. *Tetrahedron*, **2000**, 56, 2195-2202	2.4	78
441	Late-Stage Peptide Diversification through Cobalt-Catalyzed C-H Activation: Sequential Multicatalysis for Stapled Peptides. *Angewandte Chemie - International Edition*, **2019**, 58, 1684-1688	16.4	78
440	A Molecular Nanotube with Three-Dimensional Conjugation. *Angewandte Chemie - International Edition*, **2015**, 54, 7344-8	16.4	77
439	Organic Electrochemistry: Molecular Syntheses with Potential. *ACS Central Science*, **2021**, 7, 415-431	16.8	77
438	Ruthenium(II)-Catalyzed CH Arylation of Azoarenes by Carboxylate Assistance. *ACS Catalysis*, **2015**, 5, 4089-4093	13.1	76
437	Cobalt-Catalyzed Direct Arylation and Benzylation by C?H/C?O Cleavage with Sulfamates, Carbamates, and Phosphates. *Angewandte Chemie*, **2012**, 124, 8376-8379	3.6	76
436	Synthesis of fluorescent stilbene and tolan rotaxanes by Suzuki coupling. *Chemical Communications*, **2001**, 493-494	5.8	76
435	Heterogeneous CH alkenylations in continuous-flow: oxidative palladium-catalysis in a biomass-derived reaction medium. *Green Chemistry*, **2017**, 19, 2510-2514	10	75

434	Catalyst-Free, Direct Electrochemical Tri- and Difluoroalkylation/Cyclization: Access to Functionalized Oxindoles and Quinolinones. *Organic Letters*, **2019**, 21, 1237-1240	6.2	75
433	Heterogeneous palladium-catalysed Catellani reaction in biomass-derived γ-valerolactone. *Green Chemistry*, **2016**, 18, 5025-5030	10	75
432	C-H bond arylations and benzylations on oxazol(in)es with a palladium catalyst of a secondary phosphine oxide. *Organic Letters*, **2011**, 13, 3082-5	6.2	74
431	Unravelling the effect of temperature on viscosity-sensitive fluorescent molecular rotors. *Chemical Science*, **2015**, 6, 5773-5778	9.4	73
430	3d metallaelectrocatalysis for resource economical syntheses. *Chemical Society Reviews*, **2020**, 49, 4254-4272	58.5	73
429	Hydroaminations of unactivated alkenes with basic alkylamines: group 4 metal halide catalysts and Brønsted-acid organocatalysts. *Organic and Biomolecular Chemistry*, **2007**, 5, 1975-8	3.9	73
428	TiCl4-catalyzed intermolecular hydroamination reactions of norbornene. *Organic Letters*, **2004**, 6, 2515-8	6.2	73
427	Dehydrogenative Cross-Coupling of Primary and Secondary Alcohols. *Advanced Synthesis and Catalysis*, **2013**, 355, 3077-3080	5.6	72
426	Cumulene rotaxanes: stabilization and study of [9]cumulenes. *Angewandte Chemie - International Edition*, **2015**, 54, 6645-9	16.4	71
425	Mangankatalysierte Synthese von cis-β-Aminosäureestern mittels metallorganischer C-H-Aktivierung von Ketiminen. *Angewandte Chemie*, **2015**, 127, 4165-4169	3.6	71
424	Air-Stable Bifunctional HASPO Preligands for Metal-Catalyzed Cross-Couplings and Direct C–H Bond Arylations. *Israel Journal of Chemistry*, **2010**, 50, 652-663	3.4	71
423	Ruthenium(II)-Catalyzed C-H Oxygenations of Reusable Sulfoximine Benzamides. *Organic Letters*, **2017**, 19, 1278-1281	6.2	70
422	Cobalt(III)-Catalyzed Allylation with Allyl Acetates by C–H/C–O Cleavage. *Synlett*, **2015**, 26, 1596-1600	2.2	70
421	Two titanium-catalyzed reaction sequences for syntheses of pyrroles from (E/Z)-chloroenynes or alpha-haloalkynols. *Organic Letters*, **2009**, 11, 2031-4	6.2	69
420	Well-defined air-stable palladium HASPO complexes for efficient Kumada-Corriu cross-couplings of (hetero)aryl or alkenyl tosylates. *Chemistry - A European Journal*, **2011**, 17, 2965-71	4.8	68
419	C-H functionalization reactions under flow conditions. *Chemical Society Reviews*, **2019**, 48, 2767-2782	58.5	67
418	Six-Coordinate Zinc Porphyrins for Template-Directed Synthesis of Spiro-Fused Nanorings. *Journal of the American Chemical Society*, **2015**, 137, 14256-9	16.4	67
417	Ruthenium(II)-katalysierte C-H-Aktivierung/Alkinanellierung durch schwache Koordination mit O2 als einzigem Oxidationsmittel. *Angewandte Chemie*, **2015**, 127, 5604-5608	3.6	66

416	Effiziente Aryl-(Hetero-)Aryl-Kupplungen mittels Aktivierung von C-Cl- und C-F-Bindungen durch den Einsatz von Nickelkomplexen luftstabiler Phosphanoxide. *Angewandte Chemie*, **2005**, 117, 7382-7386	3.6	66
415	Domino C–H/N–H Allylations of Imidates by Cobalt Catalysis. *ACS Catalysis*, **2017**, 7, 3430-3433	13.1	65
414	Biomass-Derived Solvents for Sustainable Transition Metal-Catalyzed C–H Activation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8023-8040	8.3	65
413	Continuous Visible-Light Photoflow Approach for a Manganese-Catalyzed (Het)Arene C-H Arylation. *Angewandte Chemie - International Edition*, **2018**, 57, 10625-10629	16.4	65
412	Dehydrative C-H/N-OH functionalizations in H2O by ruthenium(II) catalysis: subtle effect of carboxylate ligands and mechanistic insight. *Journal of Organic Chemistry*, **2014**, 79, 12070-82	4.2	65
411	Electrochemical ruthenium-catalyzed alkyne annulations by C-H/Het-H activation of aryl carbamates or phenols in protic media. *Chemical Communications*, **2018**, 54, 12879-12882	5.8	65
410	Catalyst-Guided C=Het Hydroarylations by Manganese-Catalyzed Additive-Free C-H Activation. *Chemistry - A European Journal*, **2016**, 22, 14856-14859	4.8	64
409	Ruthenium(II)-catalyzed C-H activation with isocyanates: a versatile route to phthalimides. *Chemistry - A European Journal*, **2014**, 20, 13932-6	4.8	64
408	Cobalt(III)-katalysierte C-H-Aminocarbonylierung von Arenen und Alkenen mit Isocyanaten und Acylaziden. *Angewandte Chemie*, **2015**, 127, 8671-8674	3.6	64
407	Nickel-katalysierte C-H-Alkylierung: direkte sekundäre Alkylierung und Trifluorethylierung von Arenen. *Angewandte Chemie*, **2014**, 126, 2510-2513	3.6	64
406	Ruthenium-catalyzed hydroarylation of methylenecyclopropanes through C-H bond cleavage: scope and mechanism. *Chemistry - A European Journal*, **2012**, 18, 12068-77	4.8	64
405	Air-stable secondary phosphine oxide or chloride (Pre)ligands for cross-couplings of unactivated alkyl chlorides. *Organic Letters*, **2010**, 12, 2298-301	6.2	64
404	Electrophotocatalytic Undirected C-H Trifluoromethylations of (Het)Arenes. *Chemistry - A European Journal*, **2020**, 26, 3241-3246	4.8	64
403	Manganese(I)-Catalyzed Substitutive C–H Allylation. *Angewandte Chemie*, **2016**, 128, 7878-7881	3.6	64
402	Photo-induced copper-catalyzed C-H chalcogenation of azoles at room temperature. *Chemical Communications*, **2017**, 53, 5906-5909	5.8	63
401	Synergistic Heterobimetallic Manifold for Expedient Manganese(I)-Catalyzed C-H Cyanation. *Chemistry - A European Journal*, **2016**, 22, 17958-17961	4.8	63
400	User-Friendly [(Diglyme)NiBr2]-Catalyzed Direct Alkylations of Heteroarenes with Unactivated Alkyl Halides through C?H Bond Cleavages. *Advanced Synthesis and Catalysis*, **2011**, 353, 3325-3329	5.6	63
399	Palladium-Catalyzed Direct Arylation-Based Domino Synthesis of Annulated N-Heterocycles Using Alkenyl or (Hetero)Aryl 1,2-Dihalides. *Synthesis*, **2009**, 2009, 3493-3503	2.9	63

398	Ruthenium(ii)-catalyzed C-H functionalizations on benzoic acids with aryl, alkenyl and alkynyl halides by weak-O-coordination. *Chemical Communications*, **2016**, 52, 13171-13174	5.8	62
397	Nickel-catalyzed reductive thiolation and selenylation of unactivated alkyl bromides. *Nature Communications*, **2018**, 9, 2240	17.4	62
396	Nickel-Catalyzed C-H Chalcogenation of Anilines. *Chemistry - A European Journal*, **2016**, 22, 14151-4	4.8	62
395	Distal Weak Coordination of Acetamides in Ruthenium(II)-Catalyzed C-H Activation Processes. *Angewandte Chemie - International Edition*, **2018**, 57, 765-768	16.4	62
394	Cobalt-catalyzed C-H arylations with weakly-coordinating amides and tetrazoles: expedient route to angiotensin-II-receptor blockers. *Chemistry - A European Journal*, **2015**, 21, 5718-22	4.8	61
393	Global aromaticity at the nanoscale. *Nature Chemistry*, **2020**, 12, 236-241	17.6	61
392	Triazole-assisted ruthenium-catalyzed C-H arylation of aromatic amides. *Chemistry - A European Journal*, **2014**, 20, 9739-43	4.8	61
391	Single-Component Phosphinous Acid Ruthenium(II) Catalysts for Versatile C-H Activation by Metal-Ligand Cooperation. *Chemistry - A European Journal*, **2016**, 22, 1248-52	4.8	61
390	Rhodaelectrocatalysis for Annulative C-H Activation: Polycyclic Aromatic Hydrocarbons through Versatile Double Electrocatalysis. *Angewandte Chemie - International Edition*, **2019**, 58, 6342-6346	16.4	60
389	Photoexcitations of Covalently Bridged Zinc Porphyrin Oligomers: Frenkel versus Wannier□Mott Type Excitons. *Journal of Physical Chemistry B*, **2001**, 105, 97-104	3.4	60
388	Nickela-electrocatalyzed C-H Alkoxylation with Secondary Alcohols: Oxidation-Induced Reductive Elimination at Nickel(III). *Angewandte Chemie - International Edition*, **2020**, 59, 3178-3183	16.4	60
387	Late-stage C□H functionalization offers new opportunities in drug discovery. *Nature Reviews Chemistry*, **2021**, 5, 522-545	34.6	60
386	Catalyst- and Reagent-Free Electrochemical Azole C-H Amination. *Chemistry - A European Journal*, **2018**, 24, 12784-12789	4.8	59
385	Late-stage diversification of peptides by metal-free C-H arylation. *Chemistry - A European Journal*, **2014**, 20, 13099-102	4.8	59
384	Chromophores in Molecular Nanorings: When Is a Ring a Ring?. *Journal of Physical Chemistry Letters*, **2014**, 5, 4356-61	6.4	59
383	Ketone-Assisted Ruthenium(II)-Catalyzed C□H Imidation: Access to Primary Aminoketones by Weak Coordination. *ACS Catalysis*, **2016**, 6, 3172-3175	13.1	59
382	Iron-Catalyzed C-H Alkynylation through Triazole Assistance: Expedient Access to Bioactive Heterocycles. *Chemistry - A European Journal*, **2017**, 23, 3577-3582	4.8	58
381	Electrochemical C□H Amination by Cobalt Catalysis in a Renewable Solvent. *Angewandte Chemie*, **2018**, 130, 5184-5188	3.6	58

380	Ferrocenylalkynes for Ruthenium-Catalyzed Isohypsic C?H/N?O Bond Functionalizations. *Advanced Synthesis and Catalysis*, **2014**, 356, 1619-1624	5.6	58
379	Palladium-catalyzed mono-□arylation of acetone with aryl imidazolylsulfonates. *Chemistry - A European Journal*, **2012**, 18, 10230-3	4.8	58
378	Site-selective catalytic C(sp2)-H bond azidations. *Angewandte Chemie - International Edition*, **2013**, 52, 6576-8	16.4	57
377	Ruthenium(IV)-Alkylidene als Katalysatorvorstufen f□ direkte Arylierungen von Alkenen mit Chlorarenen und eine Anwendung auf die sequenzielle Katalyse. *Angewandte Chemie*, **2007**, 119, 6482-6485	3.6	57
376	Late-Stage Diversification through Manganese-Catalyzed C-H Activation: Access to Acyclic, Hybrid, and Stapled Peptides. *Angewandte Chemie - International Edition*, **2019**, 58, 3476-3480	16.4	57
375	Bioorthogonal Diversification of Peptides through Selective Ruthenium(II)-Catalyzed C□H Activation. *Angewandte Chemie*, **2017**, 129, 1598-1602	3.6	56
374	Ruthenium(II)-Catalyzed meta C□H Mono- and Difluoromethylations by Phosphine/Carboxylate Cooperation. *Angewandte Chemie*, **2017**, 129, 2077-2081	3.6	55
373	Triplet state delocalization in a conjugated porphyrin dimer probed by transient electron paramagnetic resonance techniques. *Journal of the American Chemical Society*, **2015**, 137, 6670-9	16.4	55
372	Arene-Ligand-Free Ruthenium(II/III) Manifold for meta-C-H Alkylation: Remote Purine Diversification. *Chemistry - A European Journal*, **2018**, 24, 3984-3988	4.8	55
371	Ruthenium(II)-catalyzed synthesis of isochromenes by C-H activation with weakly coordinating aliphatic hydroxyl groups. *Chemistry - A European Journal*, **2014**, 20, 5409-13	4.8	55
370	Eisen-katalysierte C(sp2)-H- und C(sp3)-H-Arylierung mit Triazol-Unterst□zung. *Angewandte Chemie*, **2014**, 126, 3949-3952	3.6	55
369	A panchromatic anthracene-fused porphyrin sensitizer for dye-sensitized solar cells. *RSC Advances*, **2012**, 2, 6846	3.7	55
368	Phosphoric Acid Diesters as Efficient Catalysts for Hydroaminations of Nonactivated Alkenes and an Application to Asymmetric Hydroaminations. *Synlett*, **2008**, 2008, 995-998	2.2	55
367	C□H carboxylation of heteroarenes with ambient CO2. *Green Chemistry*, **2016**, 18, 3804-3807	10	55
366	Peptid-Diversifizierung durch positionsselektive C-H-Aktivierung im sp□en Synthesestadium. *Angewandte Chemie*, **2018**, 130, 14912-14930	3.6	54
365	Single-Acetylene Linked Porphyrin Nanorings. *Journal of the American Chemical Society*, **2017**, 139, 16502-16505	14.4	53
364	Electrochemical C□H/N□H Activation by Water-Tolerant Cobalt Catalysis at Room Temperature. *Angewandte Chemie*, **2018**, 130, 2407-2411	3.6	53
363	Cupraelectro-Catalyzed Alkyne Annulation: Evidence for Distinct C□H Alkynylation and Decarboxylative C□H/C□C Manifolds. *ACS Catalysis*, **2019**, 9, 7690-7696	13.1	53

362	Artemisinin-(Iso)quinoline Hybrids by C-H Activation and Click Chemistry: Combating Multidrug-Resistant Malaria. *Angewandte Chemie - International Edition*, **2019**, 58, 13066-13079	16.4	53
361	Cobaltaelectro-Catalyzed Oxidative C-H/N-H Activation with 1,3-Diynes by Electro-Removable Hydrazides. *Organic Letters*, **2019**, 21, 6534-6538	6.2	53
360	Presynaptic induction and expression of timing-dependent long-term depression demonstrated by compartment-specific photorelease of a use-dependent NMDA receptor antagonist. *Journal of Neuroscience*, **2011**, 31, 8564-8569	6.6	53
359	Electrooxidative Rhodium-Catalyzed C–H/C–H Activation: Electricity as Oxidant for Cross-Dehydrogenative Alkenylation. *Angewandte Chemie*, **2018**, 130, 5930-5934	3.6	52
358	Electrooxidative Ruthenium-Catalyzed C–H/O–H Annulation by Weak O-Coordination. *Angewandte Chemie*, **2018**, 130, 5920-5924	3.6	52
357	1,4-Iron Migration for Expedient Allene Annulations through Iron-Catalyzed C-H/N-H/C-O/C-H Functionalizations. *Angewandte Chemie - International Edition*, **2018**, 57, 7719-7723	16.4	52
356	Annulation of internal alkynes through a hydroamination/aza-Heck reaction sequence for the regioselective synthesis of indoles. *Tetrahedron*, **2008**, 64, 769-777	2.4	52
355	C-H Oxygenation Reactions Enabled by Dual Catalysis with Electrogenerated Hypervalent Iodine Species and Ruthenium Complexes. *Angewandte Chemie - International Edition*, **2020**, 59, 3184-3189	16.4	52
354	C–H activation. *Nature Reviews Methods Primers*, **2021**, 1,		52
353	Bifurcated Nickel-Catalyzed Functionalizations: Heteroarene C-H Activation with Allenes. *Angewandte Chemie - International Edition*, **2017**, 56, 15891-15895	16.4	51
352	Ruthenium(II)-catalyzed C-H acyloxylation of phenols with removable auxiliary. *Chemistry - A European Journal*, **2015**, 21, 1790-4	4.8	51
351	Experimental and computational evaluation of the barrier to torsional rotation in a butadiyne-linked porphyrin dimer. *Physical Chemistry Chemical Physics*, **2016**, 18, 5264-74	3.6	51
350	Electronic Delocalization in the Radical Cations of Porphyrin Oligomer Molecular Wires. *Journal of the American Chemical Society*, **2017**, 139, 10461-10471	16.4	51
349	Manganese(I)-Catalyzed C–H Aminocarbonylation of Heteroarenes. *Angewandte Chemie*, **2015**, 127, 14343-14346	3.6	51
348	Übergangsmetallkatalysierte Carboxylierung von C-H-Bindungen. *Angewandte Chemie*, **2011**, 123, 3926-3928	3.6	51
347	Copper-catalyzed CuAAC/intramolecular C-H arylation sequence: Synthesis of annulated 1,2,3-triazoles. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 1771-7	2.5	51
346	Late-Stage Diversification of Non-Steroidal Anti-Inflammatory Drugs by Transition Metal-Catalyzed C–H Alkenylations, Thiolations and Selenylations. *Advanced Synthesis and Catalysis*, **2017**, 359, 966-973	5.6	50
345	Iron-catalyzed C-H/N-H activation by triazole guidance: versatile alkyne annulation. *Chemical Communications*, **2017**, 53, 6460-6463	5.8	50

344	Template-Directed Synthesis of a Conjugated Zinc Porphyrin Nanoball. *Journal of the American Chemical Society*, **2018**, 140, 5352-5355	16.4	50
343	Expedient Iron-Catalyzed CH Allylation/Alkylation by Triazole Assistance with Ample Scope. *Angewandte Chemie*, **2016**, 128, 1506-1510	3.6	50
342	MnCl -Catalyzed C-H Alkylations with Alkyl Halides. *Chemistry - A European Journal*, **2017**, 23, 11524-11528	4.8	50
341	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organic-Soluble Encapsulated Polyfluorenes. *Advanced Functional Materials*, **2010**, 20, 272-280	15.6	50
340	Electrochemical Access to Aza-Polycyclic Aromatic Hydrocarbons: Rhoda-Electrocatalyzed Domino Alkyne Annulations. *Angewandte Chemie - International Edition*, **2020**, 59, 5551-5556	16.4	50
339	A continuous flow approach for the CH functionalization of 1,2,3-triazoles in valerolactone as a biomass-derived medium. *Green Chemistry*, **2018**, 20, 2888-2893	10	50
338	Weakly-coordinating N-oxide and carbonyl groups for metal-catalyzed C-H activation: the case of A-ring functionalization. *Chemical Communications*, **2018**, 54, 7398-7411	5.8	50
337	Air-Stable Manganese(I)-Catalyzed CH Activation for Decarboxylative CH/CO Cleavages in Water. *Angewandte Chemie*, **2017**, 129, 6436-6439	3.6	49
336	Carboxylate assistance for catalyzed hydroarylations of methylenecyclopropanes. *Organic Letters*, **2013**, 15, 4482-4	6.2	49
335	Transient EPR Reveals Triplet State Delocalization in a Series of Cyclic and Linear Conjugated Porphyrin Oligomers. *Journal of the American Chemical Society*, **2015**, 137, 8284-93	16.4	49
334	Carboxylate-Enhanced Rhodium(III)-Catalyzed Aryl C-H Alkylation with Conjugated Alkenes under Mild Conditions. *Journal of Organic Chemistry*, **2017**, 82, 664-672	4.2	48
333	Cobaltaelectro-Catalyzed C-H Activation with Carbon Monoxide or Isocyanides. *ChemSusChem*, **2019**, 12, 3023-3027	8.3	48
332	Efficient E-Selective Transfer Semihydrogenation of Alkynes by Means of Ligand-Metal Cooperating Ruthenium Catalyst. *Advanced Synthesis and Catalysis*, **2015**, 357, 2351-2357	5.6	48
331	Enhanced chemical reversibility of redox processes incyanine dye rotaxanes. *Chemical Communications*, **2001**, 1046-1047	5.8	48
330	Weak O-Assistance Outcompeting Strong N,N-Bidentate Directing Groups in Copper-Catalyzed C-H Chalcogenation. *Chemistry - A European Journal*, **2016**, 22, 8475-8	4.8	48
329	Mild CH/CC Activation by Z-Selective Cobalt Catalysis. *Angewandte Chemie*, **2016**, 128, 7534-7538	3.6	48
328	Enantioselective Aluminum-Free Alkene Hydroarylations through C-H Activation by a Chiral Nickel/JoSPOphos Manifold. *Angewandte Chemie - International Edition*, **2019**, 58, 1749-1753	16.4	48
327	Ruthenium(IV) Intermediates in C-H Activation/Annulation by Weak O-Coordination. *Chemistry - A European Journal*, **2018**, 24, 16548-16552	4.8	48

326	A Catalyst with Two-Coordinate Nickel: Theoretical and Catalytic Studies. *European Journal of Inorganic Chemistry*, **2014**, 2014, 818-823	2.3	47
325	Emission Color Trajectory and White Electroluminescence Through Supramolecular Control of Energy Transfer and Exciplex Formation in Binary Blends of Conjugated Polyrotaxanes. *Advanced Functional Materials*, **2012**, 22, 4284-4291	15.6	47
324	N-Heterocyclic carbenes can coexist with alkenes and C-H acidic sites. *Chemical Communications*, **2001**, 2240-1	5.8	47
323	Ruthenium Oxidase Catalysis for Site-Selective C□H Alkenylations with Ambient O2 as the Sole Oxidant. *Angewandte Chemie*, **2016**, 128, 272-275	3.6	46
322	Nickel-catalyzed, base-mediated amination/hydroamination reaction sequence for a modular synthesis of indoles. *Journal of Organometallic Chemistry*, **2011**, 696, 195-201	2.3	46
321	Control of Rapid Formation of Interchain Excited States in Sugar-Threaded Supramolecular Wires. *Advanced Materials*, **2008**, 20, 3218-3223	24	46
320	Ruthenium(II)-Catalyzed C-C Arylations and Alkylations: Decarbamoylative C-C Functionalizations. *Angewandte Chemie - International Edition*, **2017**, 56, 5341-5344	16.4	44
319	Ruthenium(II) oxidase catalysis for C□H alkenylations in biomass-derived □-valerolactone. *Green Chemistry*, **2018**, 20, 398-402	10	44
318	Simple New Three-component Catalytic System for Enyne Metathesis. *Synlett*, **2001**, 2001, 0397-0399	2.2	44
317	Versatile and robust C□C activation by chelation-assisted manganese catalysis. *Nature Catalysis*, **2018**, 1, 993-1001	36.5	44
316	Metallaelectro-Catalyzed C□H Activation by Weak Coordination. *Synlett*, **2019**, 30, 1164-1173	2.2	43
315	Ruthenium(II)-Catalyzed C?H Arylation of Anilides with Boronic Acids, Borinic Acids and Potassium Trifluoroborates. *Advanced Synthesis and Catalysis*, **2015**, 357, 474-480	5.6	43
314	Cobalt-Catalyzed C□H Functionalizations by Imidate Assistance with Aryl and Alkyl Chlorides. *Advanced Synthesis and Catalysis*, **2016**, 358, 2443-2448	5.6	43
313	Carboxylate-assisted ruthenium(II)-catalyzed C□H arylations of 5-aryl tetrazoles: step-economical access to Valsartan. *Tetrahedron*, **2013**, 69, 4445-4453	2.4	43
312	Mild Decarboxylative C-H Alkylation: Computational Insights for Solvent-Robust Ruthenium(II) Domino Manifold. *Chemistry - A European Journal*, **2017**, 23, 17449-17453	4.8	43
311	Tri-Substituted Triazole-Enabled C-H Activation of Benzyl and Aryl Amines by Iron Catalysis. *Organic Letters*, **2017**, 19, 3795-3798	6.2	43
310	Synthesis of Five-Porphyrin Nanorings by Using Ferrocene and Corannulene Templates. *Angewandte Chemie - International Edition*, **2016**, 55, 8358-62	16.4	42
309	Carboxylate-Assisted Ruthenium(II)-Catalyzed Hydroarylations of Unactivated Alkenes through C□H Cleavage. *Angewandte Chemie*, **2013**, 125, 4069-4072	3.6	42

308	C-H-Alkenylierungen mit Alkenylacetaten, -phosphaten, -carbonaten und -carbamaten durch Cobalt-Katalyse bei 23 °C. *Angewandte Chemie*, **2015**, 127, 6450-6453	3.6	42
307	Carboxylate-assisted ruthenium(II)-catalyzed C–H activations of monodentate amides with conjugated alkenes. *Organic Chemistry Frontiers*, **2015**, 2, 1035-1039	5.2	41
306	Ruthenium(II)-catalyzed cross-dehydrogenative C–H alkenylations by triazole assistance. *Tetrahedron*, **2015**, 71, 4543-4551	2.4	41
305	Palladium-catalyzed direct C-H bond alkynylations of heteroarenes using gem-dichloroalkenes. *Organic Letters*, **2012**, 14, 1824-6	6.2	41
304	Palladium-catalyzed sequential indole synthesis using sterically hindered amines. *Tetrahedron*, **2009**, 65, 8930-8939	2.4	41
303	Late-Stage Diversification by Selectivity Switch in meta-C–H Activation: Evidence for Singlet Stabilization. *ACS Catalysis*, **2020**, 10, 435-440	13.1	41
302	Ruthenium(II)-Catalyzed C–H Chalcogenation of Anilides. *Advanced Synthesis and Catalysis*, **2018**, 360, 704-710	5.6	41
301	Ruthenium(II)-Catalyzed C-H Alkynylation of Weakly Coordinating Benzoic Acids. *Organic Letters*, **2017**, 19, 3171-3174	6.2	40
300	Spironaphthoxazine switchable dyes for biological imaging. *Chemical Science*, **2018**, 9, 3029-3040	9.4	40
299	Internal Peptide Late-Stage Diversification: Peptide-Isosteric Triazoles for Primary and Secondary C(sp3)–H Activation. *Angewandte Chemie*, **2018**, 130, 209-213	3.6	40
298	Methylenecyclopropane Annulation by Manganese(I)-Catalyzed Stereoselective C–H/C–C Activation. *Angewandte Chemie*, **2017**, 129, 9543-9547	3.6	39
297	Ultrafast entangling gates between nuclear spins using photoexcited triplet states. *Nature Physics*, **2012**, 8, 596-600	16.2	39
296	C(sp3)-H bond arylations catalyzed by well-defined [Ru(O2CMes)2(p-cymene)]. *Journal of Organic Chemistry*, **2013**, 78, 4145-52	4.2	39
295	Cobalt-Catalyzed Oxidative C-H Activation: Strategies and Concepts. *ChemSusChem*, **2020**, 13, 3306-3356	8.3	38
294	Electroreductive Cobalt-Catalyzed Carboxylation: Cross-Electrophile Electrocoupling with Atmospheric CO. *Angewandte Chemie - International Edition*, **2020**, 59, 12842-12847	16.4	38
293	Overcoming the Limitations of C–H Activation with Strongly Coordinating N-Heterocycles by Cobalt Catalysis. *Angewandte Chemie*, **2016**, 128, 10542-10546	3.6	38
292	Asymmetric Iron-Catalyzed C–H Alkylation Enabled by Remote Ligand meta-Substitution. *Angewandte Chemie*, **2017**, 129, 14385-14389	3.6	38
291	Catalyst-free, direct electrochemical synthesis of annulated medium-sized lactams through C–C bond cleavage. *Green Chemistry*, **2020**, 22, 1099-1104	10	38

290	Enantioselective Cobalt(III)-Catalyzed C–H Activation Enabled by Chiral Carboxylic Acid Cooperation. *Angewandte Chemie*, **2018**, 130, 15651-15655	3.6	38
289	C7-Indole Amidations and Alkenylations by Ruthenium(II) Catalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 12534-12540	16.4	37
288	Ruthenium(II)-Catalyzed Decarboxylative C–H Activation: Versatile Routes to meta-Alkenylated Arenes. *Angewandte Chemie*, **2016**, 128, 7043-7046	3.6	37
287	Selectivity Control in Ruthenium(II)-Catalyzed C-H/N-O Activation with Alkynyl Bromides. *Organic Letters*, **2017**, 19, 4620-4623	6.2	37
286	Aldehyde-Assisted Ruthenium(II)-Catalyzed C?H Oxygenations. *Angewandte Chemie*, **2014**, 126, 11467-11470	3.6	37
285	Discrimination of Diverse Coherences Allows Identification of Electronic Transitions of a Molecular Nanoring. *Journal of Physical Chemistry Letters*, **2017**, 8, 2344-2349	6.4	36
284	Air-Stable Diaminophosphine Sulfides as Preligands for Nickel-Catalyzed Cross-Couplings of Unactivated Fluoro(hetero)arenes. *Synlett*, **2010**, 2010, 294-298	2.2	36
283	Thieme Chemistry Journal Awardees - Where Are They Now? Palladium-Catalyzed N-Arylation-Hydroamination Sequence for the Synthesis of Indoles with Sterically Demanding N-Substituents. *Synlett*, **2009**, 2009, 1219-1222	2.2	36
282	Manganese(I)-Catalyzed C-H Activation/Diels-Alder/retro-Diels-Alder Domino Alkyne Annulation featuring Transformable Pyridines. *Angewandte Chemie - International Edition*, **2019**, 58, 5338-5342	16.4	35
281	Insights into Cobalta(III/IV/II)-Electrocatalysis: Oxidation-Induced Reductive Elimination for Twofold C-H Activation. *Angewandte Chemie - International Edition*, **2020**, 59, 10955-10960	16.4	35
280	Cyclodextrin-Threaded Conjugated Polyrotaxanes for Organic Electronics: The Influence of the Counter Cations. *Advanced Functional Materials*, **2008**, 18, 2419-2427	15.6	35
279	A General Strategy for the Nickel-Catalyzed C–H Alkylation of Anilines. *Angewandte Chemie*, **2016**, 128, 3205-3209	3.6	35
278	Anchor Groups for Graphene-Porphyrin Single-Molecule Transistors. *Advanced Functional Materials*, **2018**, 28, 1803629	15.6	35
277	Caterpillar Track Complexes in Template-Directed Synthesis and Correlated Molecular Motion. *Angewandte Chemie*, **2015**, 127, 5445-5449	3.6	34
276	Azaruthena(II)-bicyclo[3.2.0]heptadiene: Key Intermediate for Ruthenaelectro(II/III/I)-catalyzed Alkyne Annulations. *Angewandte Chemie - International Edition*, **2020**, 59, 11130-11135	16.4	34
275	Manganese(II/III/I)-Catalyzed C–H Arylations in Continuous Flow. *ACS Catalysis*, **2018**, 8, 4402-4407	13.1	34
274	Palladium-Catalyzed Cross-Coupling Reactions of 2-Pyridylborates with Air-Stable HASPO Preligands. *Synlett*, **2009**, 2009, 2852-2856	2.2	34
273	Influence of cyclodextrin size on fluorescence quenching in conjugated polyrotaxanes by methyl viologen in aqueous solution. *Journal of Materials Chemistry*, **2009**, 19, 2846		34

272	Photoinduced Copper-Catalyzed C–H Arylation at Room Temperature. *Angewandte Chemie*, **2016**, 128, 4837-4840	3.6	34
271	Iron-Electrocatalyzed C-H Arylations: Mechanistic Insights into Oxidation-Induced Reductive Elimination for Ferraelectrocatalysis. *Chemistry - A European Journal*, **2019**, 25, 16382-16389	4.8	33
270	Cobaltaelectro-Catalyzed C–H Acyloxylation. *Chinese Journal of Chemistry*, **2019**, 37, 552-556	4.9	33
269	Micellar Catalysis for Ruthenium(II)-Catalyzed C-H Arylation: Weak-Coordination-Enabled C-H Activation in H O. *Angewandte Chemie - International Edition*, **2019**, 58, 7490-7494	16.4	33
268	Photoswitchable Spiropyran Dyads for Biological Imaging. *Organic Letters*, **2016**, 18, 3666-9	6.2	33
267	Ligand-metal cooperating PC(sp3)P pincer complexes as catalysts in olefin hydroformylation. *Chemistry - A European Journal*, **2013**, 19, 16906-9	4.8	33
266	Chelation-assisted transition metal-catalysed C–H chalcogenylations. *Organic Chemistry Frontiers*, **2020**, 7, 1022-1060	5.2	33
265	Thiocarbonyl-enabled ferrocene C-H nitrogenation by cobalt(III) catalysis: thermal and mechanochemical. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 1546-1553	2.5	33
264	Iridium-Catalyzed Electrooxidative C–H Activation by Chemoselective Redox-Catalyst Cooperation. *Angewandte Chemie*, **2018**, 130, 14375-14379	3.6	33
263	Regioselective B(3,4)-H arylation of -carboranes by weak amide coordination at room temperature. *Chemical Science*, **2020**, 11, 10764-10769	9.4	32
262	Palladium-Catalyzed C–H Arylation of Amides by Triazole Assistance. *European Journal of Organic Chemistry*, **2016**, 2016, 5429-5436	3.2	32
261	Ruthenium-catalyzed oxidative alkyne annulation by C–H activation on ketimines. *Tetrahedron*, **2014**, 70, 3342-3348	2.4	32
260	One-Pot 2-Aryl/Vinylindole Synthesis Consisting of a Ruthenium-Catalyzed Hydroamination and a Palladium-Catalyzed Heck Reaction Using 2-Chloroaniline. *Synlett*, **2006**, 2006, 3125-3129	2.2	32
259	Renewable resources for sustainable metallaelectro-catalysed C-H activation. *Chemical Science*, **2020**, 11, 8657-8670	9.4	32
258	Synergistic Manganese(I) C–H Activation Catalysis in Continuous Flow: Chemoselective Hydroarylation. *Angewandte Chemie*, **2017**, 129, 15259-15263	3.6	31
257	Towards Sustainable C-H Functionalization Reactions: The Emerging Role of Bio-Based Reaction Media. *Chemistry - A European Journal*, **2018**, 24, 13383-13390	4.8	31
256	BODIPY Peptide Labeling by Late-Stage C(sp3)–H Activation. *Angewandte Chemie*, **2018**, 130, 10714-10718	3.6	31
255	Cobalta-Electrocatalyzed C–H Allylation with Unactivated Alkenes. *ACS Catalysis*, **2020**, 10, 6457-6462	13.1	30

254	Nickel-catalyzed C-H activation of purine bases with alkyl halides. *Chemical Communications*, **2017**, 53, 9113-9116	5.8	30
253	Ruthenium-catalyzed C-H oxygenation of quinones by weak O-coordination for potent trypanocidal agents. *Chemical Communications*, **2018**, 54, 12840-12843	5.8	30
252	Constructive quantum interference in a bis-copper six-porphyrin nanoring. *Nature Communications*, **2017**, 8, 14842	17.4	29
251	Late-stage C(sp)-H and C(sp)-H glycosylation of -aryl/alkyl glycopeptides: mechanistic insights and fluorescence labeling. *Chemical Science*, **2020**, 11, 6521-6526	9.4	29
250	Moderne Magnesiumorganische Chemie. Neues von der Grignard-Reaktion. *Chemie in Unserer Zeit*, **2009**, 43, 74-83	0.2	29
249	Domino C–H Activation/Directing Group Migration/Alkyne Annulation: Unique Selectivity by d6-Cobalt(III) Catalysts. *ACS Catalysis*, **2020**, 10, 4444-4450	13.1	28
248	Late-stage peptide C-H alkylation for bioorthogonal C-H activation featuring solid phase peptide synthesis. *Nature Communications*, **2019**, 10, 3553	17.4	28
247	Nickela-electrocatalyzed Mild C-H Alkylations at Room Temperature. *Angewandte Chemie - International Edition*, **2020**, 59, 14154-14159	16.4	28
246	Resolving Vibrational from Electronic Coherences in Two-Dimensional Electronic Spectroscopy: The Role of the Laser Spectrum. *Physical Review Letters*, **2017**, 118, 033001	7.4	27
245	Synthesis of quinones with highlighted biological applications: A critical update on the strategies towards bioactive compounds with emphasis on lapachones. *European Journal of Medicinal Chemistry*, **2019**, 179, 863-915	6.8	27
244	Manganese-Catalyzed Carbonylative Annulations for Redox-Neutral Late-Stage Diversification. *Angewandte Chemie - International Edition*, **2018**, 57, 5384-5388	16.4	27
243	A Molecular Nanotube with Three-Dimensional π-Conjugation. *Angewandte Chemie*, **2015**, 127, 7452-7456	3.6	27
242	Cobaltaelectro-catalyzed oxidative allene annulation by electro-removable hydrazides. *Chemical Communications*, **2020**, 56, 1393-1396	5.8	27
241	Reactivity-Controlling Factors in Carboxylate-Assisted C–H Activation under 4d and 3d Transition Metal Catalysis. *ACS Catalysis*, **2020**, 10, 10551-10558	13.1	27
240	MnCl-Catalyzed C-H Alkylation on Azine Heterocycles. *Organic Letters*, **2019**, 21, 571-574	6.2	27
239	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. *Angewandte Chemie - International Edition*, **2019**, 58, 8378-8382	16.4	26
238	Peptide Late-Stage Diversifications by Rhodium-Catalyzed Tryptophan C7 Amidation. *CheM*, **2020**, 6, 3428-3439	16.2	26
237	Bimetallic Nickel Complexes for Aniline C–H Alkylations. *ACS Catalysis*, **2018**, 8, 11657-11662	13.1	26

236	meta-C–H Bromination on Purine Bases by Heterogeneous Ruthenium Catalysis. *Angewandte Chemie*, **2017**, 129, 1579-1582	3.6	25
235	Tuning the Sensitivity of Fluorescent Porphyrin Dimers to Viscosity and Temperature. *Chemistry - A European Journal*, **2017**, 23, 11001-11010	4.8	25
234	Aromaticity and Antiaromaticity in the Excited States of Porphyrin Nanorings. *Journal of Physical Chemistry Letters*, **2019**, 10, 2017-2022	6.4	25
233	Two Vernier-Templated Routes to a 24-Porphyrin Nanoring. *Angewandte Chemie*, **2012**, 124, 6800-6803	3.6	25
232	Regiodivergent C-H and Decarboxylative C-C Alkylation by Ruthenium Catalysis: ortho versus meta Position-Selectivity. *Angewandte Chemie - International Edition*, **2020**, 59, 18795-18803	16.4	25
231	Cobalt-Catalyzed Diastereoselective Difluoroalkylation/Giese Addition Domino Reactions. *Organic Letters*, **2019**, 21, 5387-5391	6.2	24
230	Time-Resolved Twisting Dynamics in a Porphyrin Dimer Characterized by Two-Dimensional Electronic Spectroscopy. *Journal of Physical Chemistry B*, **2015**, 119, 14660-7	3.4	24
229	Ruthenium(II) Biscarboxylate-Catalyzed Borylations of C(sp)-H and C(sp)-H Bonds. *Chemistry - A European Journal*, **2017**, 23, 84-87	4.8	24
228	Silver-Mediated Alkyne Annulations by C–H/P–H Functionalizations: Step-Economical Access to Benzophospholes. *Synthesis*, **2014**, 46, 2297-2304	2.9	24
227	Self-Assembled Conjugated Thiophene-Based Rotaxane Architectures: Structural, Computational, and Spectroscopic Insights into Molecular Aggregation. *Advanced Functional Materials*, **2011**, 21, 834-844	15.6	24
226	„Alles-oder-Nichts"-Kooperativität bei der Selbstorganisation eines Annulen-Sandwichs. *Angewandte Chemie*, **2011**, 123, 5687-5690	3.6	24
225	Nanorings with copper(ii) and zinc(ii) centers: forcing copper porphyrins to bind axial ligands in heterometallated oligomers. *Chemical Science*, **2016**, 7, 6961-6968	9.4	24
224	Ruthenaelectro-Catalyzed Domino Three-Component Alkyne Annulation for Expedient Isoquinoline Assembly. *Angewandte Chemie - International Edition*, **2021**, 60, 4619-4624	16.4	24
223	Electrooxidative Rhodium-Catalyzed [5+2] Annulations via C-H/O-H Activations. *Angewandte Chemie - International Edition*, **2021**, 60, 6419-6424	16.4	24
222	Mangana(iii/iv)electro-catalyzed C(sp)-H azidation. *Chemical Science*, **2020**, 12, 2890-2897	9.4	24
221	Structure-Directed Exciton Dynamics in Templated Molecular Nanorings. *Journal of Physical Chemistry C*, **2015**, 119, 6414-6420	3.8	23
220	Amino Acid Ligands for Ruthenium(II)-Catalyzed C–H Arylation of Aryltetrazoles with Chlorides: Expedient Access to Antihypertension Drugs. *European Journal of Organic Chemistry*, **2016**, 2016, 3700-3704	3.2	23
219	Identification and Reactivity of Cyclometalated Iron(II) Intermediates in Triazole-Directed Iron-Catalyzed C-H Activation. *Journal of the American Chemical Society*, **2019**, 141, 12338-12345	16.4	23

218	Understanding resonant charge transport through weakly coupled single-molecule junctions. *Nature Communications*, **2019**, 10, 4628	17.4	23
217	Late-Stage Diversification through Manganese-Catalyzed C–H Activation: Access to Acyclic, Hybrid, and Stapled Peptides. *Angewandte Chemie*, **2019**, 131, 3514-3518	3.6	23
216	Late-Stage Peptide Diversification through Cobalt-Catalyzed C–H Activation: Sequential Multicatalysis for Stapled Peptides. *Angewandte Chemie*, **2019**, 131, 1698-1702	3.6	23
215	Rhodaelectro-Catalyzed C–H and C–O Activation. *CCS Chemistry*, **2021**, 3, 1529-1552	7.2	23
214	Porphyrin-Polyyne [3]- and [5]Rotaxanes. *Organic Letters*, **2017**, 19, 348-351	6.2	22
213	Sichtbares Licht ermöglicht Ruthenium-katalysierte meta-C-H-Alkylierung bei Raumtemperatur. *Angewandte Chemie*, **2019**, 131, 9925-9930	3.6	22
212	Enantioselektive Pallada-elektrokatalysierte C-H-Aktivierung durch transiente dirigierende Gruppen: Ein neuartiger Zugang zu Helicenen. *Angewandte Chemie*, **2020**, 132, 13553-13559	3.6	22
211	Arene-Free Ruthenium(II/IV)-Catalyzed Bifurcated Arylation for Oxidative C-H/C-H Functionalizations. *Angewandte Chemie - International Edition*, **2019**, 58, 15640-15645	16.4	22
210	Cobalta-Electrocatalyzed C-H Activation in Biomass-Derived Glycerol: Powered by Renewable Wind and Solar Energy. *ChemSusChem*, **2020**, 13, 668-671	8.3	22
209	Visible-Light-Induced Decarboxylative C–H Adamantylation of Azoles at Ambient Temperature. *Synthesis*, **2019**, 51, 1284-1292	2.9	22
208	Template-directed synthesis of linear porphyrin oligomers: classical, Vernier and mutual Vernier. *Chemical Science*, **2017**, 8, 2729-2740	9.4	21
207	Allenes for Versatile Iron-Catalyzed C-H Activation by Weak O-Coordination: Mechanistic Insights by Kinetics, Intermediate Isolation, and Computation. *Journal of the American Chemical Society*, **2020**, 142, 13102-13111	16.4	21
206	Laser action from a sugar-threaded polyrotaxane. *Applied Physics Letters*, **2009**, 95, 031108	3.4	21
205	Enantioselective Aluminum-Free Alkene Hydroarylations through C–H Activation by a Chiral Nickel/JoSPOphos Manifold. *Angewandte Chemie*, **2019**, 131, 1763-1767	3.6	21
204	Rhodaelectrocatalysis for Annulative C–H Activation: Polycyclic Aromatic Hydrocarbons through Versatile Double Electrocatalysis. *Angewandte Chemie*, **2019**, 131, 6408-6412	3.6	20
203	Continuous Visible-Light Photoflow Approach for a Manganese-Catalyzed (Het)Arene C–H Arylation. *Angewandte Chemie*, **2018**, 130, 10785-10789	3.6	20
202	Global Aromaticity and Antiaromaticity in Porphyrin Nanoring Anions. *Angewandte Chemie - International Edition*, **2019**, 58, 15717-15720	16.4	20
201	Chemodivergent Nickel(0)-Catalyzed Arene C–F Activation with Alkynes: Unprecedented C–F/C–H Double Insertion. *ACS Catalysis*, **2019**, 9, 11074-11081	13.1	20

200	Photo-induced fluorescence quenching in conjugated polymers dispersed in solid matrices at low concentration. *Journal of Materials Chemistry C*, **2014**, 2, 6601-6608	7.1	20
199	Fluorescence polarization measures energy funneling in single light-harvesting antennas--LH2 vs conjugated polymers. *Scientific Reports*, **2015**, 5, 15080	4.9	20
198	Ruthenium(II)-Catalyzed Hydrogen Isotope Exchange of Pharmaceutical Drugs by C□H Deuteration and C□H Tritiation. *ChemCatChem*, **2020**, 12, 100-104	5.2	20
197	Zusammenwirken von Rutheniumkatalysatoren und elektrokatalytisch generierten, hypervalenten Iodreagenzien f□ die C-H-Oxygenierung. *Angewandte Chemie*, **2020**, 132, 3210-3215	3.6	20
196	Ruthenium-Catalyzed C□H Selenylations of Benzamides. *European Journal of Organic Chemistry*, **2019**, 2019, 41-45	3.2	20
195	Metal-catalysed C-Het (F, O, S, N) and C-C bond arylation. *Chemical Society Reviews*, **2021**, 50, 8903-8953	58.5	20
194	Distal Weak Coordination of Acetamides in Ruthenium(II)-Catalyzed C□H Activation Processes. *Angewandte Chemie*, **2018**, 130, 773-776	3.6	20
193	Iron-Catalyzed C-H Activation with Propargyl Acetates: Mechanistic Insights into Iron(II) by Experiment, Kinetics, M□ssbauer Spectroscopy, and Computation. *Angewandte Chemie - International Edition*, **2019**, 58, 12874-12878	16.4	19
192	Glycopeptides by Linch-Pin C-H Activations for Peptide-Carbohydrate Conjugation by Manganese(I)-Catalysis. *Chemistry - A European Journal*, **2019**, 25, 10585-10589	4.8	19
191	Synthesis and Properties of Porphyrin Nanotubes. *Helvetica Chimica Acta*, **2019**, 102, e1800211	2	19
190	Rhodium-Catalyzed Electrooxidative C-H Olefination of Benzamides. *Angewandte Chemie - International Edition*, **2020**, 59, 15076-15080	16.4	19
189	Breaking the Symmetry in Molecular Nanorings. *Journal of Physical Chemistry Letters*, **2016**, 7, 332-8	6.4	19
188	Strong Wavelength Dependence of Hyperpolarizability in the Near-Infrared Biological Window for Second-Harmonic Generation by Amphiphilic Porphyrins. *Journal of Physical Chemistry C*, **2012**, 116, 13781-13787	3.8	19
187	Interaction of Methane with a [Li]0 Center on MgO(100): HF, Post-HF, and DFT Cluster Model Studies. *Journal of Physical Chemistry B*, **1997**, 101, 10028-10034	3.4	19
186	Photo-Induced Ruthenium-Catalyzed C-H Arylations at Ambient Temperature. *Angewandte Chemie - International Edition*, **2020**, 59, 18103-18109	16.4	19
185	M□ssbauer and mass spectrometry support for iron(ii) catalysts in enantioselective C-H activation. *Dalton Transactions*, **2019**, 48, 5135-5139	4.3	18
184	Organisation and ordering of 1D porphyrin polymers synthesised by on-surface Glaser coupling. *Chemical Communications*, **2016**, 52, 10342-5	5.8	18
183	Nickelaelektro-katalysierte C-H-Alkoxylierung mit sekund□en Alkoholen: oxidationsinduzierte reduktive Eliminierung an Nickel(III). *Angewandte Chemie*, **2020**, 132, 3204-3209	3.6	18

182	Synthesis of Five-Porphyrin Nanorings by Using Ferrocene and Corannulene Templates. *Angewandte Chemie*, **2016**, 128, 8498-8502	3.6	18
181	Size-Independent Energy Transfer in Biomimetic Nanoring Complexes. *ACS Nano*, **2016**, 10, 5933-40	16.7	18
180	Copper(I)-Catalyzed Oxyamination of Unsaturated Hydrazones: Synthesis of Dihydropyrazoles. *Organic Letters*, **2019**, 21, 7787-7790	6.2	17
179	Tuning the Circumference of Six-Porphyrin Nanorings. *Journal of the American Chemical Society*, **2019**, 141, 7965-7971	16.4	17
178	Regioselektive katalytische C(sp2)-H-Azidierungen. *Angewandte Chemie*, **2013**, 125, 6706-6708	3.6	17
177	Heterogeneous Manganese-Catalyzed Oxidase CH/CO Cyclization to Access Pharmaceutically Active Compounds. *ChemCatChem*, **2020**, 12, 449-454	5.2	17
176	Electrooxidative dearomatization of biaryls: synthesis of tri- and difluoromethylated spiro[5.5]trienones. *Chemical Science*, **2021**, 12, 10092-10096	9.4	17
175	Evolution of High-Valent Nickela-Electrocatalyzed C-H Activation: From Cross(-Electrophile)-Couplings to Electrooxidative C-H Transformations. *Chemistry - A European Journal*, **2020**, 26, 10936-10947	4.8	16
174	The Breadth and Depth of C-H Functionalization. *Journal of Organic Chemistry*, **2019**, 84, 12701-12704	4.2	16
173	Cyclodextrin-Templated Porphyrin Nanorings. *Angewandte Chemie*, **2014**, 126, 7904-7907	3.6	16
172	Ruthenium(II)-Catalyzed CH Alkenylation of Quinones: Diversity-Oriented Strategy for Trypanocidal Compounds. *European Journal of Organic Chemistry*, **2019**, 2019, 2344-2353	3.2	16
171	Ruthenium(II)biscarboxylate-Catalyzed Hydrogen-Isotope Exchange by Alkene CH Activation. *ChemCatChem*, **2019**, 11, 435-438	5.2	16
170	Bifurcated Nickel-Catalyzed Functionalizations: Heteroarene CH Activation with Allenes. *Angewandte Chemie*, **2017**, 129, 16107-16111	3.6	15
169	Sustainable Manganese-Catalyzed CH Activation/Hydroarylation of Imines. *ChemCatChem*, **2018**, 10, 2768-2772	5.2	15
168	Inhomogeneous Quenching as a Limit of the Correlation Between Fluorescence Polarization and Conformation of Single Molecules. *Journal of Physical Chemistry Letters*, **2013**, 4, 1053-8	6.4	15
167	Effects of the Environment on Charge Transport in Molecular Wires. *Journal of Physical Chemistry C*, **2012**, 116, 25213-25225	3.8	15
166	Metal-Catalyzed Direct Arylations (Excluding Palladium)311-333		15
165	Enhanced luminescence properties of highly threaded conjugated polyelectrolytes with potassium counter-ions upon blending with poly(ethylene oxide). *Journal of Applied Physics*, **2010**, 107, 124509	2.5	15

164	Cobalt-Catalyzed Hiyama-Type C-H Activation with Arylsiloxanes: Versatile Access to Highly ortho-Decorated Biaryls. *Chemistry - A European Journal*, **2019**, 25, 2213-2216	4.8	15
163	Towards efficient near-infrared fluorescent organic light-emitting diodes. *Light: Science and Applications*, **2021**, 10, 18	16.7	15
162	Triazolylidene Ligands Allow Cobalt-Catalyzed C–H/C–O Alkenyl–ations at Ambient Temperature. *Synthesis*, **2017**, 49, 3476-3484	2.9	14
161	Reusable Pd@PEG Catalyst for Aerobic Dehydrogenative C-H/C-H Arylations of 1,2,3-Triazoles. *Chemistry - A European Journal*, **2019**, 25, 11427-11431	4.8	14
160	Secondary Phosphine Oxide Preligands for Palladium-Catalyzed C–H (Hetero)Arylations: Efficient Access to Pybox Ligands. *Advanced Synthesis and Catalysis*, **2017**, 359, 3137-3141	5.6	14
159	On the Influence of the Bridge on Triplet State Delocalization in Linear Porphyrin Oligomers. *Journal of the American Chemical Society*, **2017**, 139, 12003-12008	16.4	14
158	Fluorescent polystyrene photonic crystals self-assembled with water-soluble conjugated polyrotaxanes. *APL Materials*, **2013**, 1, 042116	5.7	14
157	Transition Metal-Catalyzed Regio-selective Aromatic C–H Bond Oxidation for C–O Bond Formation. *Chinese Journal of Organic Chemistry*, **2019**, 39, 59	3	14
156	Enantioselective Ruthenium-Catalyzed C-H Alkylations by a Chiral Carboxylic Acid with Attractive Dispersive Interactions. *Organic Letters*, **2021**, 23, 2760-2765	6.2	14
155	Electroreductive Nickel-Catalyzed Thiolation: Efficient Cross-Electrophile Coupling for C-S Formation. *Chemistry - A European Journal*, **2021**, 27, 4883-4887	4.8	14
154	Porphyrin Dyes for Nonlinear Optical Imaging of Live Cells. *IScience*, **2018**, 4, 153-163	6.1	14
153	Quantifying the exchange coupling in linear copper porphyrin oligomers. *Physical Chemistry Chemical Physics*, **2017**, 19, 16057-16061	3.6	13
152	Metallalkenyl, Metallacyclopropene, or Metallallylcarbenoid? Ru-Catalyzed Annulation between Benzoic Acid and Alkyne. *ACS Catalysis*, **2019**, 9, 9387-9392	13.1	13
151	Cobalt-catalyzed C-H cyanations: Insights into the reaction mechanism and the role of London dispersion. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 1537-1545	2.5	13
150	–Extended Polyaromatic Hydrocarbons by Sustainable Alkyne Annulations through Double C-H/N-H Activation. *Chemistry - A European Journal*, **2019**, 25, 16246-16250	4.8	13
149	Concise Synthesis of Lamellarin Alkaloids by C–H/N–H Activation: Evaluation of Metal Catalysts in Oxidative Alkyne Annulation. *Synlett*, **2017**, 28, 1715-1718	2.2	13
148	Recyclable Ruthenium Catalyst for Distal meta-C-H Activation. *Chemistry - A European Journal*, **2020** , 26, 15290-15297	4.8	13
147	Peptide late-stage C(sp)-H arylation by native asparagine assistance without exogenous directing groups. *Chemical Science*, **2020**, 11, 9290-9295	9.4	13

146	Electrochemical C-H Amidation of Heteroarenes with N-Alkyl Sulfonamides in Aqueous Medium. *Chemistry - A European Journal*, **2021**, 27, 242-246	4.8	13
145	Band Structures of Periodic Porphyrin Nanostructures. *Journal of Physical Chemistry C*, **2018**, 122, 23790-23798	3.3	13
144	Global Aromaticity in a Partially Fused 8-Porphyrin Nanoring. *Journal of the American Chemical Society*, **2020**, 142, 19393-19401	16.4	12
143	Cobaltaelectro-catalyzed C-H activation for resource-economical molecular syntheses. *Nature Protocols*, **2020**, 15, 1760-1774	18.8	12
142	Electrochemical B-H Nitrogenation: Access to Amino Acid and BODIPY-Labeled nido-Carboranes. *Angewandte Chemie - International Edition*, **2021**, 60, 1482-1487	16.4	12
141	Insights into the Mechanism of Low-Valent Cobalt-Catalyzed C H Activation. *ACS Catalysis*, **2021**, 11, 1505-1515	13.1	12
140	Late-stage stitching enabled by manganese-catalyzed C-H activation: Peptide ligation and access to cyclopeptides. *Science Advances*, **2021**, 7,	14.3	12
139	Ruthenium(II)-Catalyzed C C Arylations and Alkylations: Decarbamoylative C C Functionalizations. *Angewandte Chemie*, **2017**, 129, 5425-5428	3.6	11
138	Nickel-Catalyzed Intramolecular Direct Arylation of Imines toward Diverse Indoles. *Organic Letters*, **2019**, 21, 3053-3056	6.2	11
137	Electrochemical Selenation/Cyclization of Quinones: A Rapid, Green and Efficient Access to Functionalized Trypanocidal and Antitumor Compounds. *European Journal of Organic Chemistry*, **2020**, 2020, 4474-4486	3.2	11
136	Photoinduced Heterogeneous C-H Arylation by a Reusable Hybrid Copper Catalyst. *Chemistry - A European Journal*, **2020**, 26, 3509-3514	4.8	11
135	Synthesis of Polyynes Using Dicobalt Masking Groups. *Journal of Organic Chemistry*, **2018**, 83, 2077-2086	4.2	11
134	Palladium-Catalyzed Arylations of Amines and C?H Acidic Compounds69-120		11
133	Modelling of structure, sorption, synthesis and reactivity in catalytic systems1Communication presented at the First Francqui Colloquium, Brussels, 19 20 February 1996.1. *Journal of Molecular Catalysis A*, **1997**, 115, 431-448		11
132	Cobalt-Catalyzed Enantioselective C-H Arylation of Indoles.. *Journal of the American Chemical Society*, **2022**,	16.4	11
131	Elektrochemischer Zugang zu aza-polycyclischen aromatischen Kohlenwasserstoffen: Rhoda-elektrokatalytische Domino-Alkin-Anellierungen. *Angewandte Chemie*, **2020**, 132, 5596-5601	3.6	11
130	(Iso)Quinoline-Artemisinin Hybrids Prepared through Click Chemistry: Highly Potent Agents against Viruses. *Chemistry - A European Journal*, **2020**, 26, 12019-12026	4.8	10
129	Manganese-Catalyzed Carbonylative Annulations for Redox-Neutral Late-Stage Diversification. *Angewandte Chemie*, **2018**, 130, 5482-5486	3.6	10

128	Shadow Mask Templates for Site-Selective Metal Exchange in Magnesium Porphyrin Nanorings. *Angewandte Chemie - International Edition*, **2018**, 57, 7874-7877	16.4	10
127	Ordering, flexibility and frustration in arrays of porphyrin nanorings. *Nature Communications*, **2019**, 10, 2932	17.4	10
126	Noncovalent Binding of Carbon Nanotubes by Porphyrin Oligomers. *Angewandte Chemie*, **2011**, 123, 2361-2364	3.6	10
125	Electrooxidative palladium- and enantioselective rhodium-catalyzed [3 + 2] spiroannulations.. *Chemical Science*, **2022**, 13, 2783-2788	9.4	10
124	Rhoda-Electrocatalyzed Bimetallic C-H Oxygenation by Weak O-Coordination. *Angewandte Chemie - International Edition*, **2021**, 60, 13264-13270	16.4	10
123	Tailored homo- and hetero- lanthanide porphyrin dimers: a synthetic strategy for integrating multiple spintronic functionalities into a single molecule. *Chemical Science*, **2018**, 9, 8474-8481	9.4	10
122	Mechanistische Studien zu Cobalta(III/IV/II)-Elektrokatalyse: Oxidativ-induzierte reduktive Eliminierung zur zweifachen C-H-Aktivierung. *Angewandte Chemie*, **2020**, 132, 11048-11053	3.6	9
121	Ruthenium(II)-Catalyzed Double Annulation of Quinones: Step-Economical Access to Valuable Bioactive Compounds. *Chemistry - A European Journal*, **2020**, 26, 10981-10986	4.8	9
120	Azaruthena(II)-bicyclo[3.2.0]heptadien: Schlüsselintermediat für Ruthenaelektro(II/III/I)-katalysierte Alkinanellierungen. *Angewandte Chemie*, **2020**, 132, 11223-11229	3.6	9
119	Photochemical Unmasking of Polyyne Rotaxanes. *Journal of the American Chemical Society*, **2020**, 142, 13523-13532	16.4	9
118	BODIPY-Labeled Cyclobutanes by Secondary C(sp)-H Arylations for Live-Cell Imaging. *Chemistry - A European Journal*, **2019**, 25, 12712-12718	4.8	9
117	H-Phosphonic Acid Derivatives as Catalysts for Reversible Chain Transfer Catalyzed Polymerization (RTCP) at Ambient and High Pressure. *Macromolecular Chemistry and Physics*, **2011**, 212, 259-265	2.6	9
116	Conformation and Packing of Porphyrin Polymer Chains Deposited Using Electrospray on a Gold Surface. *Angewandte Chemie*, **2010**, 122, 9322-9325	3.6	9
115	Mechanistic studies on PET-oxidative cyclization of unsaturated silyl enol ethers: dependence of the regioselectivity on alcohol addition and pressure effects. *Journal of the Chemical Society Perkin Transactions II*, **1999**, 863-870		9
114	Enantioselective palladaelectro-catalyzed C-H olefinations and allylations for N-C axial chirality. *Chemical Science*, **2021**, 12, 14182-14188	9.4	9
113	C-F Activation for C(sp)-C(sp) Cross-Coupling by a Secondary Phosphine Oxide (SPO)-Nickel Complex. *Organic Letters*, **2020**, 22, 7034-7040	6.2	9
112	Green strategies for transition metal-catalyzed C–H activation in molecular syntheses. *Organic Chemistry Frontiers*, **2021**, 8, 4886-4913	5.2	9
111	Metal Atom Markers for Imaging Epitaxial Molecular Self-Assembly on Graphene by Scanning Transmission Electron Microscopy. *ACS Nano*, **2019**, 13, 7252-7260	16.7	8

110	Carboxylate breaks the arene C-H bond a hydrogen-atom-transfer mechanism in electrochemical cobalt catalysis. *Chemical Science*, **2020**, 11, 5790-5796	9.4	8
109	C7-Indol-Amidierung und -Alkenylierung durch Ruthenium(II)- Katalyse. *Angewandte Chemie*, **2020**, 132, 12635-12641	3.6	8
108	Insights into Ruthenium(II/IV)-Catalyzed Distal C-H Oxygenation by Weak Coordination. *Chemistry - A European Journal*, **2020**, 26, 16450-16454	4.8	8
107	1,4-Iron Migration for Expedient Allene Annulations through Iron-Catalyzed CH/NH/CO/CH Functionalizations. *Angewandte Chemie*, **2018**, 130, 7845-7849	3.6	8
106	Expedient Access to 2-Benzazepines by Palladium-Catalyzed C-H Activation: Identification of a Unique Hsp90 Inhibitor Scaffold. *Chemistry - A European Journal*, **2018**, 24, 16516-16520	4.8	8
105	Unexpected Interactions between Alkyl Straps and Pyridine Ligands in Sulfur-Strapped Porphyrin Nanorings. *Journal of Organic Chemistry*, **2017**, 82, 7446-7462	4.2	8
104	Arylation Reactions: A Historical Perspective1-23		8
103	Manganese- and rhenium-catalyzed CH enaminylation: expedient access to novel indole purine hybrids with anti-tumor bioactivities. *Organic Chemistry Frontiers*, **2020**, 7, 3709-3714	5.2	8
102	Time resolved structural dynamics of butadiyne-linked porphyrin dimers. *Structural Dynamics*, **2016**, 3, 023608	3.2	8
101	Experimental and Theoretical Evidence for Aromatic Stabilization Energy in Large Macrocycles. *Journal of the American Chemical Society*, **2021**, 143, 2403-2412	16.4	8
100	Crystal growth and characterization of the pyrochlore Tb2Ti2O7. *CrystEngComm*, **2017**, 19, 3908-3914	3.3	7
99	Mechanisms of IR amplification in radical cation polarons. *Chemical Science*, **2020**, 11, 2112-2120	9.4	7
98	Global Aromaticity and Antiaromaticity in Porphyrin Nanoring Anions. *Angewandte Chemie*, **2019**, 131, 15864-15867	3.6	7
97	Scavenger templates: a systems chemistry approach to the synthesis of porphyrin-based molecular wires. *Chemical Communications*, **2017**, 53, 10410-10413	5.8	7
96	Efficient Br sted Acid Catalyzed Hydrations and Hydroaminations of (Dicyclopropylmethylene)cyclopropane. *Synlett*, **2011**, 2011, 1515-1518	2.2	7
95	Molecular Quantum Rings Formed from a Conjugated Macrocycle. *Physical Review Letters*, **2020**, 125, 206803	7.4	7
94	Super-resolution RESOLFT microscopy of lipid bilayers using a fluorophore-switch dyad. *Chemical Science*, **2020**, 11, 8955-8960	9.4	7
93	Rhodium(III)-Catalyzed CH Alkylation/Nucleophilic Addition Domino Reaction. *European Journal of Organic Chemistry*, **2019**, 2019, 660-664	3.2	7

92	Access to 10-Phenanthrenols via Electrochemical C–H/C–H Arylation. *Advanced Synthesis and Catalysis*, **2021**, 363, 1120-1125	5.6	7
91	Effects of the Novel PFKFB3 Inhibitor KAN0438757 on Colorectal Cancer Cells and Its Systemic Toxicity Evaluation In Vivo. *Cancers*, **2021**, 13,	6.6	7
90	C–H/C–F functionalization by E-selective ruthenium (II) catalysis. *Journal of Catalysis*, **2018**, 364, 14-18	7.3	7
89	Organic Synthesis in Aqueous Multiphase Systems - Challenges and Opportunities ahead of Us. *Current Opinion in Colloid and Interface Science*, **2021**, 101506	7.6	7
88	Iron-Catalyzed C–H Functionalization Processes. *Topics in Current Chemistry Collections*, **2017**, 191-224	1.8	6
87	Exploiting the Symmetry of the Resonator Mode to Enhance PELDOR Sensitivity. *Applied Magnetic Resonance*, **2015**, 46, 359-368	0.8	6
86	Allosteric Cooperativity and Template-Directed Synthesis with Stacked Ligands in Porphyrin Nanorings. *Journal of the American Chemical Society*, **2020**, 142, 13219-13226	16.4	6
85	Elektro-reduktive Cobalt-katalysierte Carboxylierung: Kreuzelektrophile Elektrokupplung mit atmosphärischem CO2. *Angewandte Chemie*, **2020**, 132, 12942-12947	3.6	6
84	Artemisinin–(iso)quinoline Hybrids by C–H Activation and Click Chemistry: Combating Multidrug-Resistant Malaria. *Angewandte Chemie*, **2019**, 131, 13200-13213	3.6	6
83	Remote C–H Functionalizations by Ruthenium Catalysis. *Synthesis*, **2021**, 53, 2911-2946	2.9	6
82	Reusable Manganese Catalyst for Site-Selective Pyridine C-H Arylations and Alkylations. *Chemistry - A European Journal*, **2021**, 27, 12737-12741	4.8	6
81	Exploring template-bound dinuclear copper porphyrin nanorings by EPR spectroscopy. *Chemical Science*, **2016**, 7, 6952-6960	9.4	6
80	Understanding the unique reactivity patterns of nickel/JoSPOphos manifold in the nickel-catalyzed enantioselective C-H cyclization of imidazoles. *Chemical Science*, **2020**, 12, 718-729	9.4	6
79	Elektrooxidative Rhodium-katalysierte [5+2]-Anellierung durch C-H/O-H-Aktivierung. *Angewandte Chemie*, **2021**, 133, 6490-6495	3.6	6
78	Distance Measurement of a Noncovalently Bound Y@C Pair with Double Electron Electron Resonance Spectroscopy. *Journal of the American Chemical Society*, **2018**, 140, 7420-7424	16.4	6
77	From Macrocycles to Quantum Rings: Does Aromaticity Have a Size Limit?. *Accounts of Chemical Research*, **2021**,	24.3	6
76	Rhodaelectro-catalyzed access to chromones via formyl C-H activation towards peptide electro-labeling. *Nature Communications*, **2021**, 12, 4736	17.4	6
75	Nickelaelektrokatalysierte, milde C-H-Alkylierungen bei Raumtemperatur. *Angewandte Chemie*, **2020**, 132, 14258-14263	3.6	5

74	Aren-free Ruthenium(II/IV)-katalysierte gegabelte Arylierungen fi oxidative C-H/C-H-Funktionalisierungen. *Angewandte Chemie*, **2019**, 131, 15787-15792	3.6	5
73	HYSCORE on Photoexcited Triplet States. *Applied Magnetic Resonance*, **2015**, 46, 389-409	0.8	5
72	Atropoenantioselective palladaelectro-catalyzed anilide C-H olefinations viable with natural sunlight as sustainable power source.. *Chemical Science*, **2022**, 13, 2729-2734	9.4	5
71	Air-Stable Secondary Phosphine Oxides for Nickel-Catalyzed Cross-Couplings of Aryl Ethers by CO Activation. *Synlett*, **2019**, 30, 429-432	2.2	5
70	Manganaelectro-Catalyzed Azine CH Arylations and CH Alkylations by Assistance of Weakly Coordinating Amides. *ACS Catalysis*, **2021**, 11, 11639-11649	13.1	5
69	Deaminative -C-H alkylation by ruthenium(ii) catalysis. *Chemical Science*, **2021**, 12, 8073-8078	9.4	5
68	Thioether-enabled palladium-catalyzed atroposelective C-H olefination for N-C and C-C axial chirality.. *Chemical Science*, **2022**, 13, 4088-4094	9.4	5
67	Efficient preparation of unsymmetrical disulfides by nickel-catalyzed reductive coupling strategy.. *Nature Communications*, **2022**, 13, 2588	17.4	5
66	Eisenkatalysierte C-H-Aktivierung mit Propargylacetaten: Mechanistische Einblicke in Eisen(II) durch Experiment, Kinetik, Mssbauer-Spektroskopie und Berechnung. *Angewandte Chemie*, **2019**, 131, 13006-13010	3.6	4
65	Mizellare Katalyse fi Ruthenium(II)-katalysierte C-H-Arylierung: Schwache Koordination erm glicht C-H-Aktivierung in H2O. *Angewandte Chemie*, **2019**, 131, 7569-7573	3.6	4
64	Time-Resolved Structural Dynamics of Extended Electron Porphyrin Nanoring. *Journal of Physical Chemistry C*, **2019**, 123, 27222-27229	3.8	4
63	Porphyrins for Probing Electrical Potential Across Lipid Bilayer Membranes by Second Harmonic Generation. *Angewandte Chemie*, **2013**, 125, 9214-9218	3.6	4
62	Regiodivergente C-H- und decarboxylierende C-C-Alkylierung mittels Rutheniumkatalyse: ortho- versus meta-Regioselektivit. *Angewandte Chemie*, **2020**, 132, 18956-18965	3.6	4
61	Photoinduzierte Rutheniumkatalysierte C-H-Arylierungen bei Umgebungstemperatur. *Angewandte Chemie*, **2020**, 132, 18259-18265	3.6	4
60	Evolution of Earth-Abundant 3 d-Metallaelectro-Catalyzed C-H Activation: From Chelation-Assistance to C-H Functionalization without Directing Groups. *Chemical Record*, **2021**, 21, 2430-2441	6.6	4
59	Electrocatalytic CH phosphorylation through nickel(III/IV/II) catalysis. *CheM*, **2021**, 7, 1379-1392	16.2	4
58	Chemodivergent manganese-catalyzed C-H activation: modular synthesis of fluorogenic probes. *Nature Communications*, **2021**, 12, 3389	17.4	4
57	Manganese(I)-Catalyzed CH Activation/Diels Alder/retro-Diels Alder Domino Alkyne Annulation featuring Transformable Pyridines. *Angewandte Chemie*, **2019**, 131, 5392-5396	3.6	4

56	Cooperative assembly of H-bonded rosettes inside a porphyrin nanoring. *Chemical Science*, **2020**, 12, 1427-1432	9.4	4
55	Ruthenaelektro-katalysierte Domino-Drei-Komponenten-Alkinanellierung f□n□zliche Isochinolin-Synthesen. *Angewandte Chemie*, **2021**, 133, 4669-4674	3.6	4
54	Iron-Catalyzed Triazole-Enabled C□H Activation with Bicyclopropylidenes. *ACS Catalysis*, **2021**, 11, 1053-1064	13.1	4
53	Shadow Mask Templates for Site-Selective Metal Exchange in Magnesium Porphyrin Nanorings. *Angewandte Chemie*, **2018**, 130, 8000-8003	3.6	4
52	Rhodaelectro-catalyzed chemo-divergent C-H activations with alkylidenecyclopropanes for selective cyclopropylations. *Chemical Communications*, **2021**, 57, 3668-3671	5.8	4
51	Spin Delocalization in the Radical Cations of Porphyrin Molecular Wires: A New Perspective on EPR Approaches. *Journal of Physical Chemistry Letters*, **2019**, 10, 5708-5712	6.4	3
50	Directing-Group-Free C7-Alkylations of N-Alkylindoles Mediated by Cationic Zirconium Complexes: Role of Br□sted Acid for Catalytic Manifold. *Chemistry - A European Journal*, **2019**, 25, 7292-7297	4.8	3
49	Panchromatic light funneling through the synergy in hexabenzocoronene-(metallo)porphyrin-fullerene assemblies to realize the separation of charges. *Chemical Science*, **2020**, 11, 7123-7132	9.4	3
48	Rhodiumkatalysierte elektrooxidative C-H-Olefinierung von Benzamiden. *Angewandte Chemie*, **2020**, 132, 15188-15192	3.6	3
47	Increased luminescence efficiency by synergistic exploitation of lipo/hydrophilic co-solvency and supramolecular design. *Journal of Materials Chemistry C*, **2016**, 4, 10893-10902	7.1	3
46	Determination of the Relative Configuration of □Amino Acid Esters Based on Residual Dipolar Couplings. *European Journal of Organic Chemistry*, **2015**, 2015, 6801-6805	3.2	3
45	Polyyne [3]rotaxanes: Synthesis via dicobalt carbonyl complexes and enhanced stability.. *Angewandte Chemie - International Edition*, **2022**,	16.4	3
44	A Strategy for Site- and Chemoselective C-H Alkenylation through Osmaelectrooxidative Catalysis. *Angewandte Chemie - International Edition*, **2021**,	16.4	3
43	A Peierls Transition in Long Polymethine Molecular Wires: Evolution of Molecular Geometry and Single-Molecule Conductance. *Journal of the American Chemical Society*, **2021**, 143, 20472-20481	16.4	3
42	Post-synthetic functionalization of tryptophan protected peptide sequences through indole (C-2) photocatalytic alkylation. *Chemical Communications*, **2021**, 57, 5758-5761	5.8	3
41	Electrooxidative -carborane chalcogenations without directing groups: cage activation by copper catalysis at room temperature. *Chemical Science*, **2021**, 12, 12971-12976	9.4	3
40	Ruthenaelectro-catalyzed C-H acyloxylation for late-stage tyrosine and oligopeptide diversification.. *Chemical Science*, **2022**, 13, 3461-3467	9.4	3
39	Thermally induced suppression of interchain interactions in dilute aqueous solutions of conjugated polyelectrolyte rotaxanes and their analogues. *Applied Physics Letters*, **2017**, 111, 083301	3.4	2

38	Diastereoselective Formation of Alkenes Through C(sp 2)?H Bond Activation **2019**, 239-274		2
37	Atomic Scale Imaging of Reversible Ring Cyclization in Graphene Nanoconstrictions. *ACS Nano*, **2019**, 13, 2379-2388	16.7	2
36	Unusual Length Dependence of the Conductance in Cumulene Molecular Wires. *Angewandte Chemie*, **2019**, 131, 8466	3.6	2
35	Influence of Oil-soaked Insulation on the Heat Loss of Thermal Oil Piping Used in High-temperature Solar Cooling Applications. *Energy Procedia*, **2014**, 48, 739-748	2.3	2
34	Novel Domino Approach to Fluorescent Pyrimido[1,6-a]indolones. *Synlett*, **2009**, 2009, 2273-2276	2.2	2
33	Dibenzocycloheptanones construction through a removable -centered radical: synthesis of allocolchicine analogues.. *Chemical Science*, **2021**, 12, 15727-15732	9.4	2
32	The Artemisinin-Derived Autofluorescent Compound BG95 Exerts Strong Anticytomegaloviral Activity Based on a Mitochondrial Targeting Mechanism. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
31	Exciton□Exciton Annihilation as a Probe of Exciton Diffusion in Large Porphyrin Nanorings. *Journal of Physical Chemistry C*, **2020**, 124, 18416-18425	3.8	2
30	Nickela-electrocatalyzed sulfide and phosphine oxygenations with water. *Science China Chemistry*, **2021**, 64, 873-874	7.9	2
29	Electro-oxidative Intermolecular Allylic C(sp)-H Aminations. *Journal of Organic Chemistry*, **2021**, 86, 15935-15945	4.2	2
28	Elektrochemische B-H-Nitrogenierung: Zugang zu Aminos□re- und BODIPY-markierten nido-Carboranen. *Angewandte Chemie*, **2021**, 133, 1504-1509	3.6	2
27	para-Selective Palladium-Catalyzed C□H Difluoroalkylation by Weak Oxazolidinone Assistance. *ChemCatChem*, **2021**, 13, 1738-1742	5.2	2
26	Organometallic Chelation-Assisted C□H Functionalization **2018**, 391-423		2
25	Photo-Induced Ruthenium-Catalyzed C-H Benzylations and Allylations at Room Temperature. *Chemistry - A European Journal*, **2021**, 27, 16237-16241	4.8	2
24	Nickel-catalyzed Csp2-OMe functionalization for chemoselective aromatic homologation en route to nanographenes.. *Chemistry - A European Journal*, **2022**,	4.8	2
23	A Coarse-Grained Model for Free and Template-Bound Porphyrin Nanorings. *Journal of Physical Chemistry A*, **2017**, 121, 5907-5920	2.8	1
22	Cyclodextrins: Highly Polarized Emission from Oriented Films Incorporating Water-Soluble Conjugated Polymers in a Polyvinyl Alcohol Matrix (Adv. Mater. 16/2011). *Advanced Materials*, **2011**, 23, 1804-1804	24	1
21	Self-assembly of a strapped linear porphyrin oligomer on HOPG. *Scientific Reports*, **2021**, 11, 20388	4.9	1

20	C H Carboxylations with CO 2 **2020**, 29-57		1
19	Electrooxidative Metal-Free Cyclization of 4-Arylaminocoumarins with DMF as C1-Source. *Advanced Synthesis and Catalysis*, **2021**, 363, 2773-2777	5.6	1
18	Rhodaelektrokatalysierte bimetallische C-H-Oxygenierung durch schwache O-Koordination. *Angewandte Chemie*, **2021**, 133, 13373-13379	3.6	1
17	Ruthenium(II)-carboxylate-catalyzed C4/C6 H dual alkylations of indoles. *Tetrahedron Letters*, **2021**, 72, 153064	2	1
16	Ruthenium-Catalyzed Remote C H Functionalizations **2021**, 137-167		1
15	Charge transport through extended molecular wires with strongly correlated electrons. *Chemical Science*, **2021**, 12, 11121-11129	9.4	1
14	A porphyrin pentamer as a bright emitter for NIR OLEDs.. *Journal of Materials Chemistry C*, **2022**, 10, 5929-5933	7.1	1
13	Cyclometallated Iron(II) Alkoxides in Iron-Catalyzed C H Activations by Weak O-Carbonyl Chelation. *ACS Catalysis*,4947-4960	13.1	1
12	Ruthenium Catalysts for the Alkylation of Functionalized Arenes and Heteroaromatic Substrates via Hydroarylation **2017**, 49-81		0
11	C-H activation by immobilized heterogeneous photocatalysts. *Photochemical and Photobiological Sciences*, **2021**, 20, 1563-1572	4.2	0
10	Allenes in Manganese(I)-Catalyzed C C Activation and a Strategy for Cascade Ring Expansion. *Cell Reports Physical Science*, **2020**, 1, 100178	6.1	0
9	Ruthenium(II)- and Palladium(II)-catalyzed position-divergent CH oxygenations of arylated quinones: Identification of hydroxylated quinonoid compounds with potent trypanocidal activity. *Bioorganic and Medicinal Chemistry*, **2021**, 40, 116164	3.4	0
8	Copper-mediated oxidative C-H/N-H activations with alkynes by removable hydrazides. *Beilstein Journal of Organic Chemistry*, **2021**, 17, 1591-1599	2.5	0
7	Innenr ktitelbild: Artemisinin(Iso)quinoline Hybrids by C H Activation and Click Chemistry: Combating Multidrug-Resistant Malaria (Angew. Chem. 37/2019). *Angewandte Chemie*, **2019**, 131, 13295-13295	3.6	
6	Probing the orientation of porphyrin oligomers in a liquid crystal solvent a triplet state electron paramagnetic resonance study. *Molecular Physics*, **2019**, 117, 2700-2708	1.7	
5	[Ru(O2CR)2(p-cymene)] **2017**, 1-3		
4	Ultrafast all-optical switching and laser action in rotaxane. *Materials Research Society Symposia Proceedings*, **2009**, 1230, 1		
3	Electrochemical Cobalt-Catalyzed C?H Activations with Potential1-31		

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