Armido Studer

List of Publications by Citations

456 papers	25,760 citations	86 h-index	141 g-index
529 ext. papers	28,968 ext. citations	8.4 avg, IF	8.21 L-index

#	Paper	IF	Citations
456	A "Renaissance" in radical trifluoromethylation. *Angewandte Chemie - International Edition*, **2012**, 51, 8950-8	16.4	845
455	Catalysis of Radical Reactions: A Radical Chemistry Perspective. *Angewandte Chemie - International Edition*, **2016**, 55, 58-102	16.4	758
454	Nitroxides: applications in synthesis and in polymer chemistry. *Angewandte Chemie - International Edition*, **2011**, 50, 5034-68	16.4	515
453	Recent advances in the synthesis of nitrogen heterocycles via radical cascade reactions using isonitriles as radical acceptors. *Chemical Society Reviews*, **2015**, 44, 3505-21	58.5	483
452	The electron is a catalyst. *Nature Chemistry*, **2014**, 6, 765-73	17.6	459
451	Fluorous synthesis: a fluorous-phase strategy for improving separation efficiency in organic synthesis. *Science*, **1997**, 275, 823-6	33.3	459
450	Catalysis with N-heterocyclic carbenes under oxidative conditions. *Chemistry - A European Journal*, **2013**, 19, 4664-78	4.8	395
449	Organocatalysis and C-H activation meet radical- and electron-transfer reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 5018-22	16.4	393
448	NHC catalyzed oxidations of aldehydes to esters: chemoselective acylation of alcohols in presence of amines. *Journal of the American Chemical Society*, **2010**, 132, 1190-1	16.4	374
447	The persistent radical effect in organic synthesis. *Chemistry - A European Journal*, **2001**, 7, 1159-64	4.8	338
446	Transition-metal-free trifluoromethylaminoxylation of alkenes. *Angewandte Chemie - International Edition*, **2012**, 51, 8221-4	16.4	302
445	NHC-catalyzed Michael addition to α,β-unsaturated aldehydes by redox activation. *Angewandte Chemie - International Edition*, **2010**, 49, 9266-9	16.4	293
444	6-Trifluoromethyl-phenanthridines through radical trifluoromethylation of isonitriles. *Angewandte Chemie - International Edition*, **2013**, 52, 10792-5	16.4	284
443	Biomimetic carbene-catalyzed oxidations of aldehydes using TEMPO. *Angewandte Chemie - International Edition*, **2008**, 47, 8727-30	16.4	282
442	Die Renaissance der radikalischen Trifluormethylierung. *Angewandte Chemie*, **2012**, 124, 9082-9090	3.6	268
441	Tin-free radical chemistry using the persistent radical effect: alkoxyamine isomerization, addition reactions and polymerizations. *Chemical Society Reviews*, **2004**, 33, 267-73	58.5	257
440	Katalyse von Radikalreaktionen: Konzepte aus Sicht der Radikalchemie. *Angewandte Chemie*, **2016**, 128, 58-106	3.6	256

439	Glaser coupling at metal surfaces. *Angewandte Chemie - International Edition*, **2013**, 52, 4024-8	16.4	250
438	Nitroxide-catalyzed transition-metal-free aerobic oxidation processes. *Green Chemistry*, **2013**, 15, 3116	10	239
437	The Persistent Radical Effect in Organic Synthesis. *Angewandte Chemie - International Edition*, **2020**, 59, 74-108	16.4	237
436	Iodine(III) Reagents in Radical Chemistry. *Accounts of Chemical Research*, **2017**, 50, 1712-1724	24.3	236
435	Radical cascade cyclization of 1,n-enynes and diynes for the synthesis of carbocycles and heterocycles. *Chemical Society Reviews*, **2017**, 46, 4329-4346	58.5	232
434	Oxidative amidation and azidation of aldehydes by NHC catalysis. *Organic Letters*, **2010**, 12, 1992-5	6.2	232
433	Radical aryl migration reactions. *Tetrahedron*, **2001**, 57, 9649-9667	2.4	219
432	6-Phosphorylated phenanthridines from 2-isocyanobiphenyls via radical C-P and C-C bond formation. *Organic Letters*, **2014**, 16, 250-3	6.2	205
431	Oxidative biaryl coupling of thiophenes and thiazoles with arylboronic acids through palladium catalysis: otherwise difficult C4-selective C-H arylation enabled by boronic acids. *Angewandte Chemie - International Edition*, **2011**, 50, 2387-91	16.4	204
430	Fluorous Synthesis: Fluorous Protocols for the Ugi and Biginelli Multicomponent Condensations. *Journal of Organic Chemistry*, **1997**, 62, 2917-2924	4.2	199
429	Tin Hydride Substitutes in Reductive Radical Chain Reactions. *Synthesis*, **2002**, 2002, 835-849	2.9	195
428	Nitroxide-mediated radical processes. *Chemical Record*, **2005**, 5, 27-35	6.6	189
427	Hindered biaryls by CH coupling: bisoxazoline-Pd catalysis leading to enantioselective CH coupling. *Chemical Science*, **2012**, 3, 2165	9.4	187
426	Radical-polar crossover reactions of vinylboron ate complexes. *Science*, **2017**, 355, 936-938	33.3	169
425	Stereoselective radical azidooxygenation of alkenes. *Organic Letters*, **2013**, 15, 4548-51	6.2	167
424	N-aminopyridinium salts as precursors for N-centered radicals--direct amidation of arenes and heteroarenes. *Organic Letters*, **2015**, 17, 254-7	6.2	164
423	Nitroxide: Anwendungen in der Synthese und in der Polymerchemie. *Angewandte Chemie*, **2011**, 123, 5138-5174	3.6	164
422	Oxidative coupling of arylboronic acids with arenes via Rh-catalyzed direct C-H arylation. *Organic Letters*, **2008**, 10, 129-31	6.2	163

421	Stereoselective palladium-catalyzed carboaminoxylations of indoles with arylboronic acids and TEMPO. *Angewandte Chemie - International Edition*, **2009**, 48, 4235-8	16.4	161
420	Copper-catalyzed intermolecular aminoazidation of alkenes. *Organic Letters*, **2014**, 16, 1790-3	6.2	157
419	Transition-metal-free oxyarylation of alkenes with aryl diazonium salts and TEMPONa. *Journal of the American Chemical Society*, **2012**, 134, 16516-9	16.4	153
418	Cross dehydrogenative coupling via base-promoted homolytic aromatic substitution (BHAS): synthesis of fluorenones and xanthones. *Organic Letters*, **2013**, 15, 928-31	6.2	149
417	Iminyl-Radicals by Oxidation of Amino-oxy Acids: Photoredox-Neutral Alkene Carboimination for the Synthesis of Pyrrolines. *Angewandte Chemie - International Edition*, **2017**, 56, 12273-12276	16.4	147
416	N,N-addition of frustrated Lewis pairs to nitric oxide: an easy entry to a unique family of aminoxyl radicals. *Journal of the American Chemical Society*, **2012**, 134, 10156-68	16.4	147
415	6-Aroylated phenanthridines via base promoted homolytic aromatic substitution (BHAS). *Organic Letters*, **2013**, 15, 6286-9	6.2	145
414	Factors influencing the C-O bond homolysis of alkoxyamines: effects of H-bonding and polar substituents. *Journal of Organic Chemistry*, **2001**, 66, 1146-56	4.2	144
413	Radical transfer hydroamination with aminated cyclohexadienes using polarity reversal catalysis: scope and limitations. *Journal of the American Chemical Society*, **2007**, 129, 4498-503	16.4	139
412	Oxidative homocoupling of aryl, alkenyl, and alkynyl Grignard reagents with TEMPO and dioxygen. *Angewandte Chemie - International Edition*, **2008**, 47, 9547-50	16.4	139
411	Asymmetric synthesis of highly substituted lactones through oxidative carbene catalysis with LiCl as cooperative Lewis acid. *Angewandte Chemie - International Edition*, **2014**, 53, 9622-6	16.4	135
410	Stereospecific formal [3+2] dipolar cycloaddition of cyclopropanes with nitrosoarenes: an approach to isoxazolidines. *Angewandte Chemie - International Edition*, **2014**, 53, 5964-8	16.4	122
409	Chemistry With N-Centered Radicals Generated by Single-Electron Transfer-Oxidation Using Photoredox Catalysis. *CCS Chemistry*,38-49	7.2	121
408	Alkene 1,2-Difunctionalization by Radical Alkenyl Migration. *Angewandte Chemie - International Edition*, **2018**, 57, 814-817	16.4	121
407	Transition Metal-Free 1,2-Carboboration of Unactivated Alkenes. *Journal of the American Chemical Society*, **2018**, 140, 6221-6225	16.4	118
406	6-Perfluoroalkylated phenanthridines via radical perfluoroalkylation of isonitriles. *Organic Letters*, **2014**, 16, 3990-3	6.2	118
405	Divergent reactions for racemates: catalytic, enantioselective, and regiodivergent nitroso diels-alder reactions. *Angewandte Chemie - International Edition*, **2007**, 46, 6542-4	16.4	118
404	Intermolecular radical carboamination of alkenes. *Chemical Society Reviews*, **2020**, 49, 1790-1811	58.5	117

403	□Aminoxy-Acid-Auxiliary-Enabled Intermolecular Radical □C(sp)-H Functionalization of Ketones. *Angewandte Chemie - International Edition*, **2018**, 57, 1692-1696	16.4	114
402	Organokatalyse und C-H-Aktivierung treffen auf Radikal- und Elektronentransferreaktionen. *Angewandte Chemie*, **2011**, 123, 5122-5127	3.6	114
401	One-pot homolytic aromatic substitutions/HWE olefinations under microwave conditions for the formation of a small oxindole library. *Organic Letters*, **2004**, 6, 3477-80	6.2	112
400	Tin-Free Radical Cyclization Reactions Using the Persistent Radical Effect I am grateful to Prof. Dieter Seebach for generous financial support and to Prof. Hanns Fischer for helpful discussions. Dr. Sylvain Marque is acknowledged for conducting the ESR experiments, and Dr. Volker Gramlich for carrying out the X-ray analysis. I also thank Christian Wetter and Elisabeth Baier for conducting	16.4	110
399	2-Trifluoromethylated indoles via radical trifluoromethylation of isonitriles. *Organic Letters*, **2014**, 16, 1216-9	6.2	109
398	Metal-Free Radical Borylation of Alkyl and Aryl Iodides. *Angewandte Chemie - International Edition*, **2018**, 57, 16832-16836	16.4	109
397	Biomimetische Carben-katalysierte Oxidation von Aldehyden mit TEMPO. *Angewandte Chemie*, **2008**, 120, 8855-8858	3.6	108
396	□ergangsmetallfreie Trifluormethylaminoxylierung von Alkenen. *Angewandte Chemie*, **2012**, 124, 8345-8348	3.6	107
395	Highly stereoselective synthesis of 1,2,3-trisubstituted indanes via oxidative N-heterocyclic carbene-catalyzed cascades. *Organic Letters*, **2011**, 13, 4966-9	6.2	106
394	9-Silafluorenes via base-promoted homolytic aromatic substitution (BHAS)--the electron as a catalyst. *Organic Letters*, **2015**, 17, 386-9	6.2	104
393	On-surface azide-alkyne cycloaddition on Au(111). *ACS Nano*, **2013**, 7, 8509-15	16.7	103
392	Polymer brushes by nitroxide-mediated polymerization. *Macromolecular Rapid Communications*, **2009**, 30, 1043-57	4.8	103
391	Hydroxy- and silyloxy-substituted TEMPO derivatives for the living free-radical polymerization of styrene and n-butyl acrylate: synthesis, kinetics, and mechanistic studies. *Journal of the American Chemical Society*, **2003**, 125, 16327-33	16.4	103
390	Site-Selective Remote Radical C-H Functionalization of Unactivated C-H Bonds in Amides Using Sulfone Reagents. *Angewandte Chemie - International Edition*, **2018**, 57, 12940-12944	16.4	102
389	Cooperative N-Heterocyclic Carbene (NHC) and Ruthenium Redox Catalysis: Oxidative Esterification of Aldehydes with Air as the Terminal Oxidant. *Advanced Synthesis and Catalysis*, **2013** , 355, 1098-1106	5.6	102
388	NHC-katalysierte Michael-Additionen an □ungesä□tigte Aldehyde unter Redoxaktivierung. *Angewandte Chemie*, **2010**, 122, 9452-9455	3.6	102
387	Evolution of functional cyclohexadiene-based synthetic reagents: the importance of becoming aromatic. *Accounts of Chemical Research*, **2005**, 38, 794-802	24.3	102
386	Oxidative Heck arylation for the stereoselective synthesis of tetrasubstituted olefins using nitroxides as oxidants. *Angewandte Chemie - International Edition*, **2012**, 51, 3699-702	16.4	100

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384	Covalent-Bond Formation via On-Surface Chemistry. *Chemistry - A European Journal*, **2017**, 23, 5874-5892	4.8	98
383	Thiol-catalyzed stereoselective transfer hydroamination of olefins with N-aminated dihydropyridines. *Angewandte Chemie - International Edition*, **2008**, 47, 779-82	16.4	95
382	Phenyl hydrazine as initiator for direct arene C-H arylation via base promoted homolytic aromatic substitution. *Organic Letters*, **2013**, 15, 6102-5	6.2	94
381	Stable reagents for the generation of N-centered radicals: hydroamination of norbornene. *Angewandte Chemie - International Edition*, **2005**, 44, 4914-7	16.4	93
380	Enantioselective cyclopropanation of enals by oxidative N-heterocyclic carbene catalysis. *Chemical Communications*, **2012**, 48, 5190-2	5.8	92
379	□Perfluoroalkyl-□alkynylation of alkenes radical alkynyl migration. *Chemical Science*, **2017**, 8, 6888-6892	9.4	91
378	Effect of Metal Surfaces in On-Surface Glaser Coupling. *Journal of Physical Chemistry C*, **2013**, 117, 18595-18602	3.8	91
377	Nucleophilic addition of enols and enamines to □unsaturated acyl azoliums: mechanistic studies. *Angewandte Chemie - International Edition*, **2012**, 51, 5234-8	16.4	90
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374	Photoinitiated Three-Component □Perfluoroalkyl-□heteroarylation of Unactivated Alkenes via Electron Catalysis. *Organic Letters*, **2019**, 21, 325-329	6.2	89
373	Amination of benzoxazoles and 1,3,4-oxadiazoles using 2,2,6,6-tetramethylpiperidine-N-oxoammonium tetrafluoroborate as an organic oxidant. *Angewandte Chemie - International Edition*, **2011**, 50, 11511-5	16.4	88
372	Lewis Acid Catalyzed Stereoselective Dearomative Coupling of Indolylboron Ate Complexes with Donor-Acceptor Cyclopropanes and Alkyl Halides. *Angewandte Chemie - International Edition*, **2018**, 57, 4053-4057	16.4	86
371	Intermolecular radical addition and addition/cyclization reactions of alkoxyamines onto nonactivated alkenes. *Organic Letters*, **2003**, 5, 2899-902	6.2	86
370	Stereospecific 1,3-Aminobromination of Donor-Acceptor Cyclopropanes. *Angewandte Chemie - International Edition*, **2017**, 56, 11554-11558	16.4	84
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368	Total synthesis of (+)-trans-dihydronarciclasine by a catalytic enantioselective regiodivergent nitroso Diels-Alder reaction. *Chemistry - A European Journal*, **2008**, 14, 6326-8	4.8	83

367	Nitroxide-Mediated Polymerization of N-Isopropylacrylamide: Electrospray Ionization Mass Spectrometry, Matrix-Assisted Laser Desorption Ionization Mass Spectrometry, and Multiple-Angle Laser Light Scattering Studies on Nitroxide-Terminated Poly-N-isopropylacrylamides. *Macromolecules*, **2005**, 38, 6833-6840	5.5	83
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364	Desymmetrization and Diastereotopic Group Selection in 1,4-Cyclohexadienes. *Synlett*, **2005**, 2005, 3033-3041	2.2	81
363	Radical addition of arylboronic acids to various olefins under oxidative conditions. *Organic Letters*, **2010**, 12, 3972-4	6.2	80
362	Silylated Cyclohexadienes: New Alternatives to Tributyltin Hydride in Free Radical Chemistry We are grateful to Prof. Dr. Dieter Seebach for generous financial support and to Prof. Dr. Erick M. Carreira for helpful discussions during the preparation of the manuscript. We also thank the Swiss Science National Foundation (2100-055280.98/1) for funding our work. *Angewandte Chemie* -	16.4	80
361	Steric and electronic effects in cyclic alkoxyamines--synthesis and applications as regulators for controlled/living radical polymerization. *Chemistry - A European Journal*, **2004**, 10, 1156-66	4.8	79
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358	Structural requirements for optimized delivery, inhibition of oxidative stress, and antiapoptotic activity of targeted nitroxides. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 320, 1050-60	4.7	75
357	Rhodium-Catalyzed Oxidative Homocoupling of Boronic Acids. *Advanced Synthesis and Catalysis*, **2008**, 350, 1963-1967	5.6	75
356	Sulfonium Ylides by (3+2) Cycloaddition of Arynes with Vinyl Sulfides: Stereoselective Synthesis of Highly Substituted Alkenes. *Angewandte Chemie - International Edition*, **2016**, 55, 14435-14438	16.4	73
355	Bis(phosphoryl)-bridged biphenyls by radical phosphanylation: synthesis and photophysical and electrochemical properties. *Angewandte Chemie - International Edition*, **2011**, 50, 12094-8	16.4	72
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348	Isonitrile trapping reactions under thermolysis of alkoxyamines for the synthesis of quinolines. *Organic Letters*, **2006**, 8, 1875-8	6.2	67
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346	Asymmetric Synthesis of Heterocyclic α-Amino-Acid and Diamine Derivatives by Three-Component Radical Cascade Reactions. *Angewandte Chemie - International Edition*, **2019**, 58, 15803-15807	16.4	66
345	Stereoselektive Pd-katalysierte Carboaminoxylierung von Indolen mit Arylborons□uren und TEMPO. *Angewandte Chemie*, **2009**, 121, 4299-4302	3.6	66
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342	Photochemical Glaser Coupling at Metal Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 6272-6277	3.8	64
341	New Sterically Hindered Nitroxides for the Living Free Radical Polymerization: X-ray Structure of an α-H-Bearing Nitroxide. *Macromolecules*, **2004**, 37, 27-34	5.5	64
340	Radical transfer hydrosilylation/cyclization using silylated cyclohexadienes. *Organic Letters*, **2001**, 3, 2357-60	6.2	63
339	Cooperative NHC and Photoredox Catalysis for the Synthesis of β-Trifluoromethylated Alkyl Aryl Ketones. *Angewandte Chemie - International Edition*, **2020**, 59, 19956-19960	16.4	61
338	Amidyl Radicals by Oxidation of α-Amido-oxy Acids: Transition-Metal-Free Amidofluorination of Unactivated Alkenes. *Angewandte Chemie - International Edition*, **2018**, 57, 10707-10711	16.4	60
337	Radical aminooxygenation of alkenes with N-fluoro-benzenesulfonimide (NFSI) and TEMPONa. *Chemical Communications*, **2015**, 51, 5706-9	5.8	58
336	Bifunctional mesoporous silica nanoparticles as cooperative catalysts for the Tsuji-Trost reaction--tuning the reactivity of silica nanoparticles. *Chemical Communications*, **2013**, 49, 2195-7	5.8	58
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325	Glaser-Kupplungen auf Metalloberflächen. *Angewandte Chemie*, **2013**, 125, 4116-4120	3.6	52
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322	Preparation of bifunctional mesoporous silica nanoparticles by orthogonal click reactions and their application in cooperative catalysis. *Chemistry - A European Journal*, **2012**, 18, 16689-97	4.8	51
321	Palladiumkatalysierte oxidative Kupplung von Thiophenen und Thiazolen mit Arylborons□ren: ungew□nliche C4-selektive C-H-Arylierung durch den Einsatz von Borons□ren. *Angewandte Chemie*, **2011**, 123, 2435-2439	3.6	51
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319	Cooperative Palladium/Lewis Acid-Catalyzed Transfer Hydrocyanation of Alkenes and Alkynes Using 1-Methylcyclohexa-2,5-diene-1-carbonitrile. *Journal of the American Chemical Society*, **2018**, 140, 16353-16359	16.4	51
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315	Stereospecific Formal [3+2] Dipolar Cycloaddition of Cyclopropanes with Nitrosoarenes: An Approach to Isoxazolidines. *Angewandte Chemie*, **2014**, 126, 6074-6078	3.6	48
314	Iminyl-Radicals by Oxidation of mino-oxy Acids: Photoredox-Neutral Alkene Carboimination for the Synthesis of Pyrrolines. *Angewandte Chemie*, **2017**, 129, 12441-12444	3.6	48

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