

Andreas Gansäuer

List of Publications by Year in descending order

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118
papers

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34016

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138
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docs citations

138
times ranked

2221
citing authors

#	ARTICLE	IF	CITATIONS
1	Reagent-Controlled Transition-Metal-Catalyzed Radical Reactions. <i>Chemical Reviews</i> , 2000, 100, 2771-2788.	23.0	385
2	Emergence of a Novel Catalytic Radical Reaction: A Titanocene-Catalyzed Reductive Opening of Epoxides. <i>Journal of the American Chemical Society</i> , 1998, 120, 12849-12859.	6.6	323
3	Catalytic, Highly Regio- and Chemoselective Generation of Radicals from Epoxides: Titanocene Dichloride as an Electron Transfer Catalyst in Transition Metal Catalyzed Radical Reactions. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 101-103.	7.2	193
4	Strained Heterocycles in Radical Chemistry. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5556-5573.	7.2	168
5	A Catalytic Enantioselective Electron Transfer Reaction: Titanocene-Catalyzed Enantioselective Formation of Radicals from meso-Epoxides. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2909-2910.	7.2	141
6	Titanocene-Catalyzed Regiodivergent Epoxide Openings. <i>Journal of the American Chemical Society</i> , 2007, 129, 3484-3485.	6.6	140
7	Mechanism of Titanocene-Mediated Epoxide Opening through Homolytic Substitution. <i>Journal of the American Chemical Society</i> , 2007, 129, 1359-1371.	6.6	135
8	Anti-Markovnikov alcohols via epoxide hydrogenation through cooperative catalysis. <i>Science</i> , 2019, 364, 764-767.	6.0	130
9	Reductive C-C Bond Formation after Epoxide Opening via Electron Transfer. , 2007, , 25-52.		127
10	Catalytic, Atom-Economical Radical Arylation of Epoxides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4739-4742.	7.2	124
11	Bioinspired terpene synthesis: a radical approach. <i>Chemical Society Reviews</i> , 2011, 40, 3525.	18.7	117
12	Metal-Catalyzed α -Functionalization of Michael Acceptors through Reductive Radical Addition Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14232-14242.	7.2	115
13	Catalysis via Homolytic Substitutions with C-O and Ti-O Bonds: Oxidative Additions and Reductive Eliminations in Single Electron Steps. <i>Journal of the American Chemical Society</i> , 2009, 131, 16989-16999.	6.6	113
14	A Radical Tandem Reaction with Homolytic Cleavage of a Ti-O Bond. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3687-3690.	7.2	110
15	Catalytic Enantioselective Radical Cyclization via Regiodivergent Epoxide Opening. <i>Journal of the American Chemical Society</i> , 2010, 132, 11858-11859.	6.6	110
16	Reagent-Controlled Stereoselectivity in Titanocene-Catalyzed Epoxide Openings: Reductions and Intermolecular Additions to α -Unsaturated Carbonyl Compounds. <i>Chemistry - A European Journal</i> , 2003, 9, 531-542.	1.7	109
17	Pinacol coupling of aromatic aldehydes catalysed by a titanocene complex: a transition metal catalysed radical reaction. <i>Chemical Communications</i> , 1997, , 457-458.	2.2	106
18	Novel Concept for Efficient Transition-Metal-Catalyzed Reactions: A Highly Diastereoselective Titanocene-Catalyzed Pinacol Coupling under Buffered Protic Conditions. <i>Journal of Organic Chemistry</i> , 1998, 63, 2070-2071.	1.7	105

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19	Sustainable Radical Reduction through Catalytic Hydrogen Atom Transfer. <i>Journal of the American Chemical Society</i> , 2008, 130, 6916-6917.	6.6	99
20	Regiodivergent Catalysis: A Powerful Tool for Selective Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 19-32.	1.7	98
21	Catalytic Hydrogen Atom Transfer (HAT) for Sustainable and Diastereoselective Radical Reduction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8891-8894.	7.2	95
22	Ti ^{IV} -Catalyzed Barbier-Type Allylations and Related Reactions. <i>Chemistry - A European Journal</i> , 2009, 15, 2774-2791.	1.7	93
23	Elucidation of the Mechanism of Titanocene-Mediated Epoxide Opening by a Combined Experimental and Theoretical Approach. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2041-2044.	7.2	89
24	Cationic Titanocene(III) Complexes for Catalysis in Single-Electron Steps. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7003-7006.	7.2	85
25	Regiodivergent Epoxide Opening: A Concept in Stereoselective Catalysis beyond Classical Kinetic Resolutions and Desymmetrizations. <i>Chemistry - A European Journal</i> , 2007, 13, 8084-8090.	1.7	81
26	Substituent Effects and Supramolecular Interactions of Titanocene(III) Chloride: Implications for Catalysis in Single Electron Steps. <i>Journal of the American Chemical Society</i> , 2014, 136, 1663-1671.	6.6	78
27	Titanocene-Catalysed Electron Transfer-Mediated Opening of Epoxides. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 465.	2.1	75
28	A Combined Theoretical and Experimental Study of Efficient and Fast Titanocene-Catalyzed 3-exoCyclizations. <i>Journal of the American Chemical Society</i> , 2005, 127, 7071-7077.	6.6	73
29	A tailored organometallic gelator with enhanced amphiphilic character and structural diversity of gelation. <i>Chemical Communications</i> , 2007, , 1894-1895.	2.2	73
30	Titanocene Catalyzed 4-exoCyclizations: A Mechanism, Experiment, Catalyst Design. <i>Journal of the American Chemical Society</i> , 2008, 130, 1788-1796.	6.6	72
31	H ₂ O Activation for Hydrogen-Atom Transfer: Correct Structures and Revised Mechanisms. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3266-3270.	7.2	72
32	Mechanistic Study of the Titanocene(III)-Catalyzed Radical Arylation of Epoxides. <i>Chemistry - A European Journal</i> , 2015, 21, 280-289.	1.7	71
33	Stereoselective Synthesis of Tri- and Tetrasubstituted Olefins by Tandem Cyclization Addition Reactions Featuring Vinyl Radicals. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3206-3208.	7.2	70
34	Radical Cyclizations Terminated by Ir-Catalyzed Hydrogen Atom Transfer. <i>Journal of the American Chemical Society</i> , 2011, 133, 416-417.	6.6	67
35	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12654-12657.	7.2	67
36	Dramatic rate acceleration in titanocene catalyzed epoxide openings: cofactors and Lewis acid cocatalysis. <i>Chemical Communications</i> , 1998, , 2143-2144.	2.2	65

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37	4- <i>exo</i> Cyclizations by Template Catalysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8882-8885.	7.2	65
38	Merging Catalysis in Single Electron Steps with Photoredox Catalysis – Efficient and Sustainable Radical Chemistry. <i>ACS Catalysis</i> , 2019, 9, 3208-3212.	5.5	65
39	Highly Diastereoselective Titanocene Catalysed Pinacol Couplings. <i>Synlett</i> , 1997, 1997, 363-364.	1.0	63
40	Titanocene-Catalysed Enantioselective Opening of <i>meso</i> -Epoxides. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 785-787.	2.1	63
41	Stereocontrolled Coupling between Aldehydes and Conjugated Alkenals Mediated by Ti(III)/H ₂ O. <i>Organic Letters</i> , 2006, 8, 5433-5436.	2.4	63
42	Transition-Metal-Catalyzed Allylic Substitution and Titanocene-Catalyzed Epoxypolyene Cyclization as a Powerful Tool for the Preparation of Terpenoids. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4115-4127.	1.2	62
43	Titanocenes as Photoredox Catalysts Using Green Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9355-9359.	7.2	62
44	A Radical Roundabout for an Unprecedented Tandem Reaction Including a Homolytic Substitution with a Titanium-Oxygen Bond. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 2337-2351.	1.2	61
45	Unprecedented Barbier-type reactions catalysed by titanocene(III). <i>Chemical Communications</i> , 2004, , 2628-2629.	2.2	61
46	Titanocene-Catalyzed Pinacol Couplings: Reagent-Controlled Transition-Metal-Catalyzed Radical Reactions. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 1923-1927.	1.2	60
47	Polarity Matching of Radical Trapping: High Yielding 3- <i>exo</i> and 4- <i>exo</i> Cyclizations. <i>Chemistry - A European Journal</i> , 2004, 10, 4983-4990.	1.7	60
48	Titanocenes as Electron Transfer Catalysts: Reagent Controlled Catalytic Radical Reactions. <i>Synlett</i> , 1998, 1998, 801-809.	1.0	58
49	A Modular and Efficient Synthesis of Functional Titanocenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 11622-11623.	6.6	58
50	Highly Active Titanocene Catalysts for Epoxide Hydrosilylation: Synthesis, Theory, Kinetics, EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7671-7675.	7.2	57
51	A comparison of electron transfer reagents in the reductive opening of epoxides: reasons for the superiority of titanocene based complexes. <i>Tetrahedron</i> , 2002, 58, 7017-7026.	1.0	55
52	A Novel Concept for Transition-Metal-Catalyzed Reactions: Electron Transfer under Buffered Protic Conditions. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 2673-2676.	1.2	50
53	General, Highly Selective Synthesis of 1,3- and 1,4-Difunctionalized Building Blocks by Regiodivergent Epoxide Opening. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12030-12034.	7.2	50
54	Merging Regiodivergent Catalysis with Atom-Economical Radical Arylation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14208-14212.	7.2	48

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55	Catalytic Epoxypolyene Cyclization via Radicals: Highly Diastereoselective Formal Synthesis of Puupehedione and 8-epi-Puupehedione. <i>Synlett</i> , 2006, 2006, 927-929.	1.0	46
56	Amide-Substituted Titanocenes in Hydrogen-Atom Transfer Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1523-1526.	7.2	42
57	Cp ₂ TiX Complexes for Sustainable Catalysis in Single-Electron Steps. <i>Chemistry - A European Journal</i> , 2018, 24, 6371-6379.	1.7	42
58	Titanocene catalyzed opening of oxetanes. <i>Tetrahedron</i> , 2008, 64, 11839-11845.	1.0	41
59	Synthesis of Dihydropyrrolizine and Tetrahydroindolizine Scaffolds from Pyrroles by Titanocene(III) Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9719-9722.	7.2	40
60	Mechanism-Based Condition Screening for Sustainable Catalysis in Single-Electron Steps by Cyclic Voltammetry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5006-5010.	7.2	40
61	Titanocene Catalysed 5-exoCyclisations of Unsaturated Epoxides- Reagent Control in Radical Chemistry. <i>Synthesis</i> , 2001, 2001, 2500.	1.2	38
62	S _N 2 Reactions at Tertiary Carbon Centers in Epoxides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9719-9722.	7.2	37
63	Modular Synthesis of Functional Titanocenes. <i>Organometallics</i> , 2008, 27, 5699-5707.	1.1	36
64	Novel Organometallic Gelators with Enhanced Amphiphilic Character: Structure-Property Correlations, Principles for Design, and Diversity of Gelation. <i>Organometallics</i> , 2009, 28, 1377-1382.	1.1	36
65	Kationische Titanocen(III)-Komplexe für die Katalyse in Ein-Elektronen-Schritten. <i>Angewandte Chemie</i> , 2015, 127, 7109-7112.	1.6	35
66	Conformational Preferences of Titanocene Dichlorides with Ligands Derived from Menthol: A Comparison of Structures in Solution and in the Crystal. <i>Organometallics</i> , 2001, 20, 914-919.	1.1	33
67	Hydrogen Atom Donors: Recent Developments. <i>Topics in Current Chemistry</i> , 2011, 320, 93-120.	4.0	33
68	Carbonyl-Substituted Titanocenes: A Novel Class of Cytostatic Compounds with High Antitumor and Antileukemic Activity. <i>Chemistry - A European Journal</i> , 2008, 14, 4160-4163.	1.7	32
69	Demystifying Cp ₂ Ti(H)Cl and Its Enigmatic Role in the Reactions of Epoxides with Cp ₂ TiCl. <i>Organometallics</i> , 2018, 37, 4801-4809.	1.1	32
70	Hydroxy-Directed, Fluoride-Catalyzed Epoxide Hydrosilylation for the Synthesis of 1,4-Diols. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6931-6934.	7.2	30
71	Combining the Power of Ti ^{III} -Mediated Processes for Easy Access to Hydroxylated Polycyclic Terpenoids: Synthesis of Sesterstatin...1 and C-D Rings of Aspergilloxide. <i>Chemistry - A European Journal</i> , 2012, 18, 12825-12833.	1.7	29
72	Titanocene-catalysed, selective reduction of ketones in aqueous media. A safe, mild, inexpensive procedure for the synthesis of secondary alcohols via radical chemistry. <i>Tetrahedron Letters</i> , 2003, 44, 1079-1082.	0.7	28

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73	The Effect of Open and Closed Structures of Titanocenes on the Control of Diastereoselectivity of Radical Reactions. <i>Organometallics</i> , 2004, 23, 1168-1171.	1.1	28
74	Computational study of the rate constants and free energies of intramolecular radical addition to substituted anilines. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1620-1629.	1.3	27
75	Hochaktive Titanocen-Katalysatoren für Epoxid-Hydrosilylierungen – Synthese, Theorie, Kinetik, EPR-Spektroskopie. <i>Angewandte Chemie</i> , 2016, 128, 7801-7805.	1.6	27
76	Radical 4-exo Cyclizations via Template Catalysis. <i>Chemistry - A European Journal</i> , 2012, 18, 2591-2599.	1.7	25
77	An improved synthesis of Kagan's menthyl substituted titanocene and zirconocene dichloride, comparison of their crystal structures, and preliminary catalyst evaluation. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 2327-2331.	0.8	24
78	General, Highly Selective Synthesis of 1,3- and 1,4-Difunctionalized Building Blocks by Regiodivergent Epoxide Opening. <i>Angewandte Chemie</i> , 2016, 128, 12209-12213.	1.6	23
79	The Mechanism of Epoxide Opening through Electron Transfer: Experiment and Theory in Concert. , 0, , 39-69.		22
80	Menthyl-Substituted Group 4 Metallocene Dihalides. <i>Organometallics</i> , 2008, 27, 5846-5851.	1.1	22
81	Titanocene-Catalyzed Radical Opening of N-Acylated Aziridines. <i>Angewandte Chemie</i> , 2017, 129, 12828-12831.	1.6	22
82	Titanocenes as Photoredox Catalysts Using Green-Light Irradiation. <i>Angewandte Chemie</i> , 2020, 132, 9441-9445.	1.6	21
83	Titanocene(III)-Catalyzed Precision Deuteration of Epoxides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114198.	7.2	21
84	Radical-Based Epoxide Opening by Titanocenes. <i>Inorganic Chemistry</i> , 2013, 52, 11859-11866.	1.9	20
85	Selective Reduction of Aromatic Ketones in Aqueous Medium Mediated by Ti(III)/Mn: A Revised Mechanism. <i>Journal of Organic Chemistry</i> , 2014, 79, 7672-7676.	1.7	20
86	Oxidation Under Reductive Conditions: From Benzylic Ethers to Acetals with Perfect Atom-Economy by Titanocene(III) Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5482-5488.	7.2	20
87	Sustainable radical reduction through catalyzed hydrogen atom transfer reactions (CHAT-reactions). <i>Tetrahedron</i> , 2009, 65, 4984-4991.	1.0	19
88	Synthetic and Computational Evaluation of Regiodivergent Epoxide Opening for Diol and Polyol Synthesis. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2289-2294.	1.7	19
89	Synthesis of 1,3-Amino Alcohols by Hydroxy-Directed Aziridination and Aziridine Hydrosilylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13528-13532.	7.2	19
90	Formal total synthesis of (±)-fragranol via template catalyzed 4-exo cyclization. <i>Tetrahedron</i> , 2009, 65, 10791-10796.	1.0	18

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91	Mechanism-Based Condition Screening for Sustainable Catalysis in Single-Electron Steps by Cyclic Voltammetry. <i>Angewandte Chemie</i> , 2018, 130, 5100-5104.	1.6	18
92	Amid-substituierte Titanocene für die Atom-Transfer-Katalyse. <i>Angewandte Chemie</i> , 2016, 128, 1546-1550.	1.5	17
93	Merging Regiodivergent Catalysis with Atom-Economical Radical Arylation. <i>Angewandte Chemie</i> , 2019, 131, 14346-14350.	1.6	16
94	Design Platform for Sustainable Catalysis with Radicals: Electrochemical Activation of Cp ₂ TiCl ₂ for Catalysis Unveiled. <i>Chemistry - A European Journal</i> , 2021, 27, 4903-4912.	1.7	16
95	Efficient and Stereoselective Synthesis of Precursors for Epoxypolyene Cyclizations via Allylic Substitutions. <i>Synlett</i> , 2005, 2005, 1954-1956.	1.0	15
96	The reaction of β -epoxy alcohols with titanium(III) reagents. A proposed role for intramolecular hydrogen bonding. <i>Tetrahedron</i> , 2019, 75, 130662.	1.0	15
97	Condition Screening for Sustainable Catalysis in Single-Electron Steps by Cyclic Voltammetry: Additives and Solvents. <i>ChemSusChem</i> , 2019, 12, 3166-3171.	3.6	15
98	A Guide to Low-Valent Titanocene Complexes as Tunable Single-Electron Transfer Catalysts for Applications in Organic Chemistry. <i>ChemCatChem</i> , 2022, 14, .	1.8	15
99	Titanocene-Catalyzed [2+2] Cycloaddition of Bisenones and Comparison with Photoredox Catalysis and Established Methods. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14339-14344.	7.2	14
100	Highly regioselective and chemoselective titanocene mediated Barbier-type allylation reactions. <i>Chemical Communications</i> , 2014, 50, 2211-2213.	2.2	13
101	Synthesis of Chiral Butyrolactones by Highly Stereoselective Radical Transfer or Sequential Asymmetric Alkylations: Concise Preparation of Leupyrrin Moieties. <i>Chemistry - A European Journal</i> , 2015, 21, 16266-16271.	1.7	13
102	S _N 2 Reactions at Tertiary Carbon Centers in Epoxides. <i>Angewandte Chemie</i> , 2017, 129, 9851-9854.	1.6	13
103	Synthesis of Dihydropyrrolizine and Tetrahydroindolizine Scaffolds from Pyrroles by Titanocene(III) Catalysis. <i>Angewandte Chemie</i> , 2016, 128, 9871-9874.	1.6	12
104	Regiodivergent epoxide opening (REO) via electron transfer: control elements. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1361-1369.	1.8	11
105	A Divergent Duo: Palladium Catalyzed Carboamination in Enantioselective Desymmetrization and Regiodivergent Catalysis. <i>ChemCatChem</i> , 2019, 11, 5421-5424.	1.8	10
106	Oxidation Under Reductive Conditions: From Benzylic Ethers to Acetals with Perfect Atom-Economy by Titanocene(III) Catalysis. <i>Angewandte Chemie</i> , 2021, 133, 5542-5548.	1.6	10
107	Chemistry Dissolved in Ionic Liquids. A Theoretical Perspective. <i>Journal of Physical Chemistry B</i> , 2022, 126, 766-777.	1.2	9
108	Titanocene(III)-Catalyzed Precision Deuteration of Epoxides. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7

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109	Synthesis of 1,3-Amino Alcohols by Hydroxy-Directed Aziridination and Aziridine Hydrosilylation. <i>Angewandte Chemie</i> , 2018, 130, 13716-13720.	1.6	4
110	Titanocene-Catalyzed [2+2] Cycloaddition of Bisenones and Comparison with Photoredox Catalysis and Established Methods. <i>Angewandte Chemie</i> , 2021, 133, 14460-14465.	1.6	4
111	Organische Chemie 2002. <i>Nachrichten Aus Der Chemie</i> , 2003, 51, 286-315.	0.0	3
112	Reductive Cleavage of 2,2,2-Trichloroethyl Esters by Titanocene Catalysis. <i>Chimia</i> , 2012, 66, 433-434.	0.3	3
113	Triazol-substituted titanocenes by strain-driven 1,3-dipolar cycloadditions. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1630-1637.	1.3	3
114	Titanocene-Catalyzed Regiodivergent Epoxide Opening – From Desymmetrizing meso-Epoxides to Regiodivergent Arylation of Epoxides. <i>Synthesis</i> , 0, 52, .	1.2	3
115	Reductive Electron Transfer in the Synthesis of Heterocycles. <i>Topics in Heterocyclic Chemistry</i> , 2017, , 253-283.	0.2	2
116	Titelbild: Amid-substituierte Titanocene für die H-Atom-Transfer-Katalyse (<i>Angew. Chem.</i> 4/2016). <i>Angewandte Chemie</i> , 2016, 128, 1233-1233.	1.6	0
117	Frontispiece: Regiodivergent Catalysis: A Powerful Tool for Selective Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
118	Cp ₂ TiX Complexes for Sustainable Catalysis in Single-Electron Steps. <i>Chemistry - A European Journal</i> , 2018, 24, 6286-6286.	1.7	0