

Alois Frstner

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469
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46,460
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486
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49,359
ext. citations

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avg, IF

8.35
L-index

#	Paper	IF	Citations
469	Catalytic carbophilic activation: catalysis by platinum and gold pi acids. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3410-49	16.4	2048
468	Olefin Metathesis and Beyond. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3012-3043	16.4	1281
467	The promise and challenge of iron-catalyzed cross coupling. <i>Accounts of Chemical Research</i> , 2008 , 41, 1500-11	24.3	1081
466	Gold and platinum catalysis--a convenient tool for generating molecular complexity. <i>Chemical Society Reviews</i> , 2009 , 38, 3208-21	58.5	1058
465	Katalytische carbophile Aktivierung: Platin- und Gold- π -Alkine als Katalysatoren. <i>Angewandte Chemie</i> , 2007 , 119, 3478-3519	3.6	907
464	Chemistry and biology of roseophilin and the prodigiosin alkaloids: a survey of the last 2500 years. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3582-603	16.4	700
463	Iron-catalyzed cross-coupling reactions. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13856-63	16.4	651
462	Synthesis of phenanthrenes and polycyclic heteroarenes by transition-metal catalyzed cycloisomerization reactions. <i>Chemistry - A European Journal</i> , 2004 , 10, 4556-75	4.8	532
461	Ring-Closing Alkyne Metathesis: Application to the Stereoselective Total Synthesis of Prostaglandin E(2)-1,15-Lactone This work was supported by the Deutsche Forschungsgemeinschaft (Leibniz program) and the Fonds der Chemischen Industrie. K.G. thanks the Alexander von Humboldt Foundation for a fellowship. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1000-1004	16.4	529
460	Platinum- and gold-catalyzed cycloisomerization reactions of hydroxylated enynes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8654-5	16.4	507
459	Carbonminus signCarbon Bond Formations Involving Organochromium(III) Reagents. <i>Chemical Reviews</i> , 1999 , 99, 991-1046	68.1	504
458	Olefinmetathese und mehr. <i>Angewandte Chemie</i> , 2000 , 112, 3140-3172	3.6	498
457	Advances in Iron Catalyzed Cross Coupling Reactions. <i>Chemistry Letters</i> , 2005 , 34, 624-629	1.7	443
456	Iron Catalysis in Organic Synthesis: A Critical Assessment of What It Takes To Make This Base Metal a Multitasking Champion. <i>ACS Central Science</i> , 2016 , 2, 778-789	16.8	420
455	Preparation, structure, and reactivity of nonstabilized organoiron compounds. Implications for iron-catalyzed cross coupling reactions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8773-87	16.4	413
454	Ruthenium carbene complexes with N,N'-bis(mesityl)imidazol-2-ylidene ligands: RCM catalysts of extended scope. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2204-7	4.2	393
453	Comparative investigation of ruthenium-based metathesis catalysts bearing N-heterocyclic carbene (NHC) ligands. <i>Chemistry - A European Journal</i> , 2001 , 7, 3236-53	4.8	387

452	Total Syntheses of (+)-Ricinelaïdic Acid Lactone and of (±)-Gloeosporone Based on Transition-Metal-Catalyzed C≡C Bond Formations. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9130-9136	16.4	379
451	Coordination chemistry of ene-1,1-diamines and a prototype "carbodicarbene". <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3210-4	16.4	379
450	Platinum-catalyzed cycloisomerization reactions of enynes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11863-9	16.4	364
449	Heterocycles by PtCl ₂ -catalyzed intramolecular carboalkoxylation or carboamination of alkynes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15024-5	16.4	360
448	Ruthenium carbene complexes with imidazolin-2-ylidene ligands allow the formation of tetrasubstituted cycloalkenes by RCM. <i>Tetrahedron Letters</i> , 1999 , 40, 4787-4790	2	359
447	Cross-coupling of alkyl halides with aryl grignard reagents catalyzed by a low-valent iron complex. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3955-7	16.4	339
446	Iron-Catalyzed Cross-Coupling Reactions of Alkyl-Grignard Reagents with Aryl Chlorides, Tosylates, and Triflates. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 609-612	16.4	339
445	Alkyne metathesis. <i>Chemical Communications</i> , 2005 , 2307-20	5.8	337
444	Alkyne metathesis on the rise. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2794-819	16.4	329
443	Platinum- and Acid-Catalyzed Enyne Metathesis Reactions: Mechanistic Studies and Applications to the Syntheses of Streptorubin B and Metacycloprodigiosin. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8305-8314	16.4	321
442	Flexible synthesis of phenanthrenes by a PtCl(2)-catalyzed cycloisomerization reaction. <i>Journal of Organic Chemistry</i> , 2002 , 67, 6264-7	4.2	306
441	New Developments in the Chemistry of Low-Valent Titanium. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 2442-2469		299
440	Selective iron-catalyzed cross-coupling reactions of grignard reagents with enol triflates, acid chlorides, and dichloroarenes. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3943-9	4.2	296
439	From understanding to prediction: gold- and platinum-based acid catalysis for target oriented synthesis. <i>Accounts of Chemical Research</i> , 2014 , 47, 925-38	24.3	295
438	Nozaki-Hiyama-Kishi Reactions Catalytic in Chromium. <i>Journal of the American Chemical Society</i> , 1996 , 118, 12349-12357	16.4	291
437	Novel Rearrangements of Enynes Catalyzed by PtCl ₂ . <i>Journal of the American Chemical Society</i> , 2000 , 122, 6785-6786	16.4	274
436	Macrocycles by Ring-Closing Metathesis. <i>Synthesis</i> , 1997 , 1997, 792-803	2.9	270
435	A cheap metal for a "noble" task: preparative and mechanistic aspects of cycloisomerization and cycloaddition reactions catalyzed by low-valent iron complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1992-2004	16.4	265

- 434 On the nature of the reactive intermediates in gold-catalyzed cycloisomerization reactions. *Angewandte Chemie - International Edition*, **2008**, 47, 5030-3 16.4 264
- 433 Platinum- and gold-catalyzed rearrangement reactions of propargyl acetates: total syntheses of (-)-alpha-cubebene, (-)-cubebol, sesquicarene and related terpenes. *Chemistry - A European Journal*, **2006**, 12, 3006-19 4.8 264
- 432 Coordination chemistry at carbon. *Nature Chemistry*, **2009**, 1, 295-301 17.6 258
- 431 Elementary steps of gold catalysis: NMR spectroscopy reveals the highly cationic character of a "gold carbenoid". *Angewandte Chemie - International Edition*, **2009**, 48, 2510-3 16.4 253
- 430 Steering the surprisingly modular pi-acceptor properties of N-heterocyclic carbenes: implications for gold catalysis. *Angewandte Chemie - International Edition*, **2010**, 49, 2542-6 16.4 249
- 429 Effective modulation of the donor properties of N-heterocyclic carbene ligands by "through-space" communication within a planar chiral scaffold. *Journal of the American Chemical Society*, **2007**, 129, 12676-74 16.4 248
- 428 Practical new silyloxy-based alkyne metathesis catalysts with optimized activity and selectivity profiles. *Journal of the American Chemical Society*, **2010**, 132, 11045-57 16.4 244
- 427 Indenylidene complexes of ruthenium: optimized synthesis, structure elucidation, and performance as catalysts for olefin metathesis—application to the synthesis of the ADE-ring system of nakadomarin A. *Chemistry - A European Journal*, **2001**, 7, 4811-20 4.8 232
- 426 Cationic ruthenium allenylidene complexes as catalysts for ring closing olefin metathesis. *Chemistry - A European Journal*, **2000**, 6, 1847-57 4.8 230
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- 423 Enantioselective gold catalysis: opportunities provided by monodentate phosphoramidite ligands with an acyclic TADDOL backbone. *Angewandte Chemie - International Edition*, **2010**, 49, 1949-53 16.4 225
- 422 Ring Closing Alkyne Metathesis. Comparative Investigation of Two Different Catalyst Systems and Application to the Stereoselective Synthesis of Olfactory Lactones, Azamacrolides, and the Macrocyclic Perimeter of the Marine Alkaloid Nakadomarin A. *Journal of the American Chemical Society*, **1999**, 121, 11108-11113 16.4 218
- 421 Alkyne metathesis: development of a novel molybdenum-based catalyst system and its application to the total synthesis of epothilone A and C. *Chemistry - A European Journal*, **2001**, 7, 5299-317 4.8 210
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- 417 Diaminocarbene- and Fischer-carbene complexes of palladium and nickel by oxidative insertion: preparation, structure, and catalytic activity. *Chemistry - A European Journal*, **2005**, 11, 1833-53 4.8 197

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4 ¹⁵	Cyclobutenes by platinum-catalyzed cycloisomerization reactions of enynes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8244-5	16.4	194
4 ¹⁴	Coordination Chemistry of Ene-1,1-diamines and a Prototype σ -Carbodicarbene <i>Angewandte Chemie</i> , 2008 , 120, 3254-3258	3.6	184
4 ¹³	PtCl ₂ -catalyzed rearrangement of methylenecyclopropanes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6306-7	16.4	183
4 ¹²	Mo[N(t-Bu)(Ar)] ₃ Complexes As Catalyst Precursors: In Situ Activation and Application to Metathesis Reactions of Alkynes and Diynes. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9453-9454	16.4	180
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4 ¹⁰	Metathesis in total synthesis. <i>Chemical Communications</i> , 2011 , 47, 6505-11	5.8	176
4 ⁰⁹	A functional-group-tolerant catalytic trans hydrogenation of alkynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 355-60	16.4	173
4 ⁰⁸	Teaching metathesis "simple" stereochemistry. <i>Science</i> , 2013 , 341, 1229713	33.3	169
4 ⁰⁷	One-point binding ligands for asymmetric gold catalysis: phosphoramidites with a TADDOL-related but acyclic backbone. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15331-42	16.4	169
4 ⁰⁶	Ring-Closing Metathesis of Functionalized Acetylene Derivatives: A New Entry into Cycloalkynes. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 1734-1736	16.4	168
4 ⁰⁵	Chemie und Biologie des Roseophilins und der Prodigiosin-Alkaloide: 2500 Jahre im Überblick. <i>Angewandte Chemie</i> , 2003 , 115, 3706-3728	3.6	166
4 ⁰⁴	Optimized synthesis, structural investigations, ligand tuning and synthetic evaluation of silyloxy-based alkyne metathesis catalysts. <i>Chemistry - A European Journal</i> , 2012 , 18, 10281-99	4.8	161
4 ⁰³	Chemistry of and with Highly Reactive Metals. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 164-189		159
4 ⁰²	Recent advancements in ring closing olefin metathesis. <i>Topics in Catalysis</i> , 1997 , 4, 285-299	2.3	155
4 ⁰¹	Elementary steps in gold catalysis: the significance of gem-diauration. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8466-70	16.4	153
4 ⁰⁰	Total syntheses of amphidinolide X and Y. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9194-204	16.4	152
399	Total syntheses of the tylophora alkaloids cryptopleurine, (-)-antofine, (-)-tylophorine, and (-)-ficuseptine C. <i>Chemistry - A European Journal</i> , 2006 , 12, 7398-410	4.8	151

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396	Carene terpenoids by gold-catalyzed cycloisomerization reactions. <i>Chemical Communications</i> , 2004 , 2546-8	5.8	146
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393	Total syntheses of amphidinolide T1, T3, T4, and T5. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15512-20	16.4	144
392	A trans-selective hydroboration of internal alkynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14050-4	16.4	142
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389	Total synthesis of amphidinolide X. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15970-1	16.4	139
388	Iron-catalyzed cross-coupling reactions. A scalable synthesis of the immunosuppressive agent FTY720. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3950-2	4.2	138
387	Catalysis-based total synthesis of latrunculin B. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5358-60	16.4	137
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- 350 Structure and bonding in neutral and cationic 14-electron gold alkyne π complexes. *Chemistry - A European Journal*, **2009**, 15, 8558-65 4.8 103
- 349 Structure assignment, total synthesis, and antiviral evaluation of cycloviracin B1. *Journal of the American Chemical Society*, **2003**, 125, 13132-42 16.4 103
- 348 Exploiting the reversibility of olefin metathesis. Syntheses of macrocyclic trisubstituted alkenes and (R,R)-(-)-pyrenophorin. *Organic Letters*, **2001**, 3, 449-51 6.2 103
- 347 Molybdenum nitride complexes with Ph₃SiO ligands are exceedingly practical and tolerant precatalysts for alkyne metathesis and efficient nitrogen transfer agents. *Journal of the American Chemical Society*, **2009**, 131, 9468-70 16.4 102
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342	Total syntheses of amphidinolides B1, B4, G1, H1 and structure revision of amphidinolide H2. <i>Chemistry - A European Journal</i> , 2009 , 15, 3983-4010	4.8	100
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333	Total synthesis of the antibiotic erypoegin H and cognates by a PtCl ₂ -catalyzed cycloisomerization reaction. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4760-3	16.4	97
332	Macrocyclics by ring-closing-metathesis, XI: Syntheses of (R)-(+)-lasiodiplodin, zeranol and truncated salicylihalamides. <i>Tetrahedron</i> , 1999 , 55, 8215-8230	2.4	97
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330	Enantioselective Gold Catalysis: Opportunities Provided by Monodentate Phosphoramidite Ligands with an Acyclic TADDOL Backbone. <i>Angewandte Chemie</i> , 2010 , 122, 1993-1997	3.6	96
329	Two manifolds for metal-catalyzed intramolecular diels-alder reactions of unactivated alkynes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8845-9	16.4	95
328	Gold Catalysis for Heterocyclic Chemistry: A Representative Case Study on Pyrone Natural Products. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4215-4233	16.4	94
327	Catalysis-based total synthesis of putative mandelalide A. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4217-21	16.4	94

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1 Discussion Addendum for: 4-Nonylbenzoic Acid1-15