

Joost N H Reek

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372
papers

22,096
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77
h-index

134
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438
ext. papers

24,002
ext. citations

8.5
avg, IF

7.18
L-index

#	Paper	IF	Citations
372	Frontiers, opportunities, and challenges in biochemical and chemical catalysis of CO ₂ fixation. <i>Chemical Reviews</i> , 2013 , 113, 6621-58	68.1	1415
371	Ligand Bite Angle Effects in Metal-catalyzed C-C Bond Formation. <i>Chemical Reviews</i> , 2000 , 100, 2741-70	68.1	815
370	Dendrimers as support for recoverable catalysts and reagents. <i>Chemical Reviews</i> , 2002 , 102, 3717-56	68.1	560
369	Reactivity within a confined self-assembled nanospace. <i>Chemical Society Reviews</i> , 2008 , 37, 247-62	58.5	526
368	Supramolecular catalysis beyond enzyme mimics. <i>Nature Chemistry</i> , 2010 , 2, 615-21	17.6	498
367	Transition Metal Catalysis Using Functionalized Dendrimers. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1828-1849	16.4	480
366	Transition metal catalysis in confined spaces. <i>Chemical Society Reviews</i> , 2015 , 44, 433-48	58.5	447
365	Wide bite angle diphosphines: xantphos ligands in transition metal complexes and catalysis. <i>Accounts of Chemical Research</i> , 2001 , 34, 895-904	24.3	434
364	Neutral tridentate PNP ligands and their hybrid analogues: versatile non-innocent scaffolds for homogeneous catalysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8832-46	16.4	368
363	Co@NH ₂ -MIL-125(Ti): cobaloxime-derived metal-organic framework-based composite for light-driven H ₂ production. <i>Energy and Environmental Science</i> , 2015 , 8, 364-375	35.4	304
362	Origin of the Bite Angle Effect on Rhodium Diphosphine Catalyzed Hydroformylation. <i>Organometallics</i> , 2000 , 19, 872-883	3.8	295
361	Synthesis of functional 'polyolefins': state of the art and remaining challenges. <i>Chemical Society Reviews</i> , 2013 , 42, 5809-32	58.5	284
360	'Carbene radicals' in Co(II)(por)-catalyzed olefin cyclopropanation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10891-902	16.4	262
359	Ligands that store and release electrons during catalysis. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3356-8	16.4	220
358	Click-chemistry as an efficient synthetic tool for the preparation of novel conjugated polymers. <i>Chemical Communications</i> , 2005 , 4333-5	5.8	208
357	Self-assembled nanospheres with multiple endohedral binding sites pre-organize catalysts and substrates for highly efficient reactions. <i>Nature Chemistry</i> , 2016 , 8, 225-30	17.6	205
356	Molecular recognition and self-assembly special feature: Self-assembled biomimetic [2Fe ₂ S]-hydrogenase-based photocatalyst for molecular hydrogen evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10460-5	11.5	204

355	Complexes with nitrogen-centered radical ligands: classification, spectroscopic features, reactivity, and catalytic applications. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12510-29	16.4	197
354	High-precision catalysts: regioselective hydroformylation of internal alkenes by encapsulated rhodium complexes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11344-5	16.4	183
353	Supramolecular control on chemo- and regioselectivity via encapsulation of (NHC)-Au catalyst within a hexameric self-assembled host. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2848-51	16.4	172
352	Screening of a supramolecular catalyst library in the search for selective catalysts for the asymmetric hydrogenation of a difficult enamide substrate. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1223-7	16.4	172
351	Zn(II)-salphen complexes as versatile building blocks for the construction of supramolecular box assemblies. <i>Chemistry - A European Journal</i> , 2005 , 11, 4743-50	4.8	172
350	IPr* an easily accessible highly hindered N-heterocyclic carbene. <i>Dalton Transactions</i> , 2010 , 39, 1444-6	4.3	170
349	New directions in supramolecular transition metal catalysis. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2371-83	3.9	169
348	Encapsulation of transition metal catalysts by ligand-template directed assembly. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1526-36	16.4	169
347	Mononuclear water oxidation catalysts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9740-7	16.4	159
346	Accelerated Biphasic Hydroformylation by Vesicle Formation of Amphiphilic Diphosphines. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1650-1657	16.4	156
345	Supramolecular control of selectivity in transition-metal catalysis through substrate preorganization. <i>Chemical Science</i> , 2014 , 5, 2135-2145	9.4	153
344	Chiral induction effects in ruthenium(II) amino alcohol catalysed asymmetric transfer hydrogenation of ketones: an experimental and theoretical approach. <i>Chemistry - A European Journal</i> , 2000 , 6, 2818-29	4.8	153
343	A silica-supported, switchable, and recyclable hydroformylation-hydrogenation catalyst. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8468-76	16.4	153
342	Me ₂ -NHC based robust Ir catalyst for efficient water oxidation. <i>Chemical Communications</i> , 2011 , 47, 2713-4	16.4	146
341	"Clickphine": a novel and highly versatile P,N ligand class via click chemistry. <i>Organic Letters</i> , 2006 , 8, 3227-30	6.2	142
340	Supraphos: a supramolecular strategy to prepare bidentate ligands. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4056-7	16.4	139
339	Assembly of Encapsulated Transition Metal Catalysts. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4271-4274	16.4	138
338	Intramolecular redox-active ligand-to-substrate single-electron transfer: radical reactivity with a palladium(II) complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11574-7	16.4	134

337	Enantioselective hydroformylation by a Rh-catalyst entrapped in a supramolecular metallocage. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2680-7	16.4	134
336	C1 polymerisation and related C-C bond forming 'carbene insertion' reactions. <i>Chemical Society Reviews</i> , 2010 , 39, 1706-23	58.5	130
335	Remote supramolecular control of catalyst selectivity in the hydroformylation of alkenes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 396-400	16.4	126
334	Multicomponent porphyrin assemblies as functional bidentate phosphite ligands for regioselective rhodium-catalyzed hydroformylation. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5619-23	16.4	125
333	The coordination behaviour of large natural bite angle diphosphine ligands towards methyl and 4-cyanophenylpalladium(II) complexes. <i>Dalton Transactions RSC</i> , 2002 , 2308		123
332	The future of solar fuels: when could they become competitive?. <i>Energy and Environmental Science</i> , 2018 , 11, 1653-1669	35.4	121
331	Ligand-template directed assembly: an efficient approach for the supramolecular encapsulation of transition-metal catalysts. <i>Chemistry - A European Journal</i> , 2006 , 12, 4218-27	4.8	117
330	Noncovalently functionalized dendrimers as recyclable catalysts. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8453-8	16.4	114
329	Binding Features of Molecular Clips. Separation of the Effects of Hydrogen Bonding and π Interactions. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9956-9964	16.4	112
328	Bidentate ligands by supramolecular chemistry--the future for catalysis?. <i>Dalton Transactions</i> , 2006 , 3385-91	4.3	111
327	UREAphos: supramolecular bidentate ligands for asymmetric hydrogenation. <i>Chemical Communications</i> , 2007 , 864-6	5.8	110
326	Template-induced formation of heterobidentate ligands and their application in the asymmetric hydroformylation of styrene. <i>Chemical Communications</i> , 2006 , 4679-81	5.8	110
325	A Robust, Environmentally Benign Catalyst for Highly Selective Hydroformylation. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3231-3235	16.4	110
324	Tunable Hemilabile Ligands for Adaptive Transition Metal Complexes. <i>Organometallics</i> , 2011 , 30, 499-510	9.8	109
323	Singly hydrogen bonded supramolecular ligands for highly selective rhodium-catalyzed hydrogenation reactions. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2162-5	16.4	108
322	An X-ray study of the effect of the bite angle of chelating ligands on the geometry of palladium(allyl) complexes: implications for the regioselectivity in the allylic alkylation. <i>Inorganic Chemistry</i> , 2001 , 40, 3363-72	5.1	108
321	"Cofactor"-controlled enantioselective catalysis. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17176-9	16.4	106
320	Continuous, selective hydroformylation in supercritical carbon dioxide using an immobilised homogeneous catalyst. <i>Chemical Communications</i> , 2000 , 1497-1498	5.8	106

319	Reactivity of Dinitrogen Bound to Mid- and Late-Transition-Metal Centers. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 567-598	2.3	101
318	Cobalt-Porphyrin-Catalysed Intramolecular Ring-Closing C-H Amination of Aliphatic Azides: A Nitrene-Radical Approach to Saturated Heterocycles. <i>Chemistry - A European Journal</i> , 2017 , 23, 7945-7952	4.8	99
317	Co(III)-Carbene Radical Approach to Substituted 1H-Indenes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8968-75	16.4	99
316	Bidentate ligands formed by self-assembly. <i>Chemical Communications</i> , 2003 , 2474-5	5.8	99
315	Hybrid diphosphorus ligands in rhodium catalysed asymmetric hydroformylation. <i>Coordination Chemistry Reviews</i> , 2014 , 262, 1-15	23.2	94
314	Libraries of Bidentate Phosphorus Ligands; Synthesis Strategies and Application in Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 2939-2958	2.3	93
313	Site-isolation effects in a dendritic nickel catalyst for the oligomerization of ethylene. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14960-3	16.4	91
312	Self-assembly of a confined rhodium catalyst for asymmetric hydroformylation of unfunctionalized internal alkenes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2860-3	16.4	90
311	Palladium complexes of phosphine functionalised carbosilane dendrimers as catalysts in a continuous flow membrane reactor. <i>Chemical Communications</i> , 1999 , 1623-1624	5.8	90
310	SPANphos: a C ₂ -symmetric trans-coordinating diphosphane ligand. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1284-7	16.4	89
309	Iridium(I) versus Ruthenium(II). A Computational Study of the Transition Metal Catalyzed Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2003 , 22, 3150-3157	3.8	88
308	Sulfonamido-phosphoramidite ligands in cooperative dinuclear hydrogenation catalysis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6683-5	16.4	87
307	Base-free production of H ₂ by dehydrogenation of formic acid using an iridium-bisMETAMORPhos complex. <i>Chemistry - A European Journal</i> , 2013 , 19, 11507-11	4.8	86
306	Encapsulation of metalloporphyrins in a self-assembled cubic M ₈ L ₆ cage: a new molecular flask for cobalt-porphyrin-catalysed radical-type reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 10170-8	4.8	85
305	Highly selective asymmetric Rh-catalyzed hydroformylation of heterocyclic olefins. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6607-16	16.4	85
304	The bite angle makes the catalyst. <i>Pure and Applied Chemistry</i> , 1999 , 71, 1443-1452	2.1	84
303	Confinement Effects in Catalysis Using Well-Defined Materials and Cages. <i>Frontiers in Chemistry</i> , 2018 , 6, 623	5	84
302	Encapsulated transition metal catalysts comprising peripheral Zn(II)salen building blocks: template-controlled reactivity and selectivity in hydroformylation catalysis. <i>Chemical Communications</i> , 2005 , 3661-3	5.8	82

- 301 Ligand Template Strategies for Catalyst Encapsulation. *Accounts of Chemical Research*, **2018**, 51, 2115-2123 81
- 300 Rh-mediated polymerization of carbenes: mechanism and stereoregulation. *Journal of the American Chemical Society*, **2007**, 129, 11631-41 16.4 81
- 299 Bergangsmetallkatalyse mit funktionalisierten Dendrimeren. *Angewandte Chemie*, **2001**, 113, 1878-1901 13.6 80
- 298 Catalysis in the core of a carbosilane dendrimer. *Chemical Communications*, **1999**, 1119-1120 5.8 80
- 297 Encapsulated cobalt-porphyrin as a catalyst for size-selective radical-type cyclopropanation reactions. *Chemistry - A European Journal*, **2014**, 20, 4880-4 4.8 79
- 296 Supramolecular control of ligand coordination and implications in hydroformylation reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 7342-5 16.4 79
- 295 Rigid bis-zinc(II) salphen building blocks for the formation of template-assisted bidentate ligands and their application in catalysis. *Dalton Transactions*, **2007**, 2311-20 4.3 77
- 294 Redox-active ligand-induced homolytic bond activation. *Angewandte Chemie - International Edition*, **2015**, 54, 1516-20 16.4 75
- 293 Precise supramolecular control of selectivity in the Rh-catalyzed hydroformylation of terminal and internal alkenes. *Journal of the American Chemical Society*, **2013**, 135, 10817-28 16.4 74
- 292 Asymmetric Hydroformylation Using Taddol-Based Chiral PhosphinePhosphite Ligands. *Organometallics*, **2010**, 29, 478-483 3.8 74
- 291 Multiple recognition of barbiturate guests by Hamilton-receptor-functionalized dendrimers. *Chemistry - A European Journal*, **2004**, 10, 2036-47 4.8 74
- 290 Carbene insertion into transition metal-carbon bonds: a new tool for catalytic C-C bond formation. *Catalysis Science and Technology*, **2011**, 1, 153 5.5 73
- 289 Electrochemical and spectroelectrochemical characterization of an iridium-based molecular catalyst for water splitting: turnover frequencies, stability, and electrolyte effects. *Journal of the American Chemical Society*, **2014**, 136, 10432-9 16.4 72
- 288 METAMORPhos: adaptive supramolecular ligands and their mechanistic consequences for asymmetric hydrogenation. *Angewandte Chemie - International Edition*, **2008**, 47, 3180-3 16.4 72
- 287 Solid-phase synthesis of homogeneous ruthenium catalysts on silica for the continuous asymmetric transfer hydrogenation reaction. *Chemistry - A European Journal*, **2001**, 7, 1202-8 4.8 71
- 286 Gold(I) catalysis at extreme concentrations inside self-assembled nanospheres. *Angewandte Chemie - International Edition*, **2014**, 53, 13380-4 16.4 70
- 285 Catalyst selection based on intermediate stability measured by mass spectrometry. *Nature Chemistry*, **2010**, 2, 417-21 17.6 70
- 284 Hybrid bidentate phosphorus ligands in asymmetric catalysis: privileged ligand approach vs. combinatorial strategies. *Organic and Biomolecular Chemistry*, **2011**, 9, 1704-13 3.9 69

283	Dynamic combinatorial chemistry: the unexpected choice of receptors by guest molecules. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2660-3	16.4	69
282	A Self-Assembled Molecular Cage for Substrate-Selective Epoxidation Reactions in Aqueous Media. <i>ACS Catalysis</i> , 2016 , 6, 3106-3112	13.1	66
281	Metal-directed self-assembly of a Zn(II)-salpyr complex into a supramolecular vase structure. <i>Inorganic Chemistry</i> , 2007 , 46, 5829-31	5.1	65
280	Templated encapsulation of pyridyl-bian palladium complexes: tunable catalysts for CO/4-tert-butylstyrene copolymerization. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8590-2	16.4	65
279	Screening of a Supramolecular Catalyst Library in the Search for Selective Catalysts for the Asymmetric Hydrogenation of a Difficult Enamide Substrate. <i>Angewandte Chemie</i> , 2006 , 118, 1245-1249	3.6	65
278	Supramolecular control of selectivity in hydroformylation of vinyl arenes: easy access to valuable aldehyde intermediates. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3878-82	16.4	64
277	Sulfonated Xantphos Ligand and Methylated Cyclodextrin: A Winning Combination for Rhodium-Catalyzed Hydroformylation of Higher Olefins in Aqueous Medium. <i>Organometallics</i> , 2005 , 24, 2070-2075	3.8	64
276	A Convenient Synthetic Route for the Preparation of Nonsymmetric Metallo-salphen Complexes. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 4626-4634	2.3	64
275	Photosystem I-based Biophotovoltaics on Nanostructured Hematite. <i>Advanced Functional Materials</i> , 2014 , 24, 7467-7477	15.6	63
274	Application of a supramolecular-ligand library for the automated search for catalysts for the asymmetric hydrogenation of industrially relevant substrates. <i>Chemistry - A European Journal</i> , 2009 , 15, 10272-9	4.8	63
273	Capsule-controlled selectivity of a rhodium hydroformylation catalyst. <i>Nature Communications</i> , 2013 , 4, 2670	17.4	62
272	Komplexe mit Stickstoffradikalliganden: Einteilung, spektroskopische Eigenschaften, Reaktivität und katalytische Anwendungen. <i>Angewandte Chemie</i> , 2013 , 125, 12740-12760	3.6	62
271	Water splitting by cooperative catalysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8178-81	16.4	62
270	SUPRAphos-based palladium catalysts for the kinetic resolution of racemic cyclohexenyl acetate. <i>Chemical Communications</i> , 2007 , 2287-9	5.8	62
269	Dehydrogenation of formic acid by Ir-bisMETAMORPhos complexes: experimental and computational insight into the role of a cooperative ligand. <i>Chemical Science</i> , 2015 , 6, 1027-1034	9.4	61
268	Liganden, die während der Katalyse Elektronen speichern und freisetzen. <i>Angewandte Chemie</i> , 2011 , 123, 3416-3418	3.6	61
267	Highly enantioselective hydroformylation of dihydrofurans catalyzed by hybrid phosphine-phosphonite rhodium complexes. <i>Chemical Communications</i> , 2010 , 46, 1244-6	5.8	60
266	Templated assembly of a molecular capsule. <i>Chemical Communications</i> , 1998 , 11-12	5.8	60

265	Supramolecular Approaches To Control Activity and Selectivity in Hydroformylation Catalysis. <i>ACS Catalysis</i> , 2018 , 8, 3469-3488	13.1	59
264	Picosecond Electron Injection Dynamics in Dye-Sensitized Oxides in the Presence of Electrolyte. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2578-2584	3.8	58
263	INDOLPhos: novel hybrid phosphine-phosphoramidite ligands for asymmetric hydrogenation and hydroformylation. <i>Dalton Transactions</i> , 2007 , 3750-3	4.3	58
262	Supramoleculartrans-Coordinating Phosphine Ligands. <i>Organometallics</i> , 2006 , 25, 954-960	3.8	58
261	Binuclear [(cod)(Cl)Ir(bpi)Ir(cod)] ⁺ for Catalytic Water Oxidation. <i>Organometallics</i> , 2011 , 30, 372-374	3.8	57
260	Rhodium-Catalyzed Asymmetric Hydroformylation with Taddol-Based IndolPhos Ligands. <i>Organometallics</i> , 2010 , 29, 2767-2776	3.8	55
259	A Switchable Gold Catalyst by Encapsulation in a Self-Assembled Cage. <i>Chemistry - A European Journal</i> , 2016 , 22, 14836-14839	4.8	54
258	A highly selective water-soluble dicationic palladium catalyst for the biphasic hydroxycarbonylation of alkenes. <i>Chemical Communications</i> , 1998 , 2431-2432	5.8	54
257	. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 1237-1241	2.3	54
256	Control over Electrochemical Water Oxidation Catalysis by Preorganization of Molecular Ruthenium Catalysts in Self-Assembled Nanospheres. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11247-11251	16.4	54
255	INDOLPhosphole and INDOLPhos PalladiumAllyl Complexes in Asymmetric Allylic Alkylations. <i>Organometallics</i> , 2009 , 28, 2724-2734	3.8	53
254	Palladium-catalyzed amination of aryl bromides and aryl triflates using diphosphane ligands: a kinetic study. <i>Chemistry - A European Journal</i> , 2001 , 7, 475-82	4.8	53
253	SIAPhos: Phosphorylated Sulfonimidamides and their Use in Iridium-Catalyzed Asymmetric Hydrogenations of Sterically Hindered Cyclic Enamides. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 59-64	5.6	52
252	Beyond classical reactivity patterns: hydroformylation of vinyl and allyl arenes to valuable aldehyde intermediates using supramolecular catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8418-29	16.4	51
251	Multicomponent Porphyrin Assemblies as Functional Bidentate Phosphite Ligands for Regioselective Rhodium-Catalyzed Hydroformylation. <i>Angewandte Chemie</i> , 2003 , 115, 5777-5781	3.6	51
250	Pincer ligands with an all-phosphorus donor set: subtle differences between rhodium and palladium. <i>Dalton Transactions</i> , 2011 , 40, 8822-9	4.3	50
249	Assembly of Encapsulated Transition Metal Catalysts. <i>Angewandte Chemie</i> , 2001 , 113, 4401-4404	3.6	50
248	C-H Activation of Benzene by a Photoactivated Ni(II)(azide): Formation of a Transient Nickel Nitrido Complex. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7055-9	16.4	49

247	Substrate selectivity in the alkyne hydration mediated by NHCAu(I) controlled by encapsulation of the catalyst within a hydrogen bonded hexameric host. <i>Catalysis Science and Technology</i> , 2013 , 3, 2898	5.5	49
246	N-H bond activation by palladium(II) and copper(I) complexes featuring a reactive bidentate PN-ligand. <i>Dalton Transactions</i> , 2012 , 41, 11276-83	4.3	49
245	Rhodium-Mediated Stereospecific Carbene Polymerization: From Homopolymers to Random and Block Copolymers. <i>Macromolecules</i> , 2010 , 43, 8892-8903	5.5	49
244	Template-assisted ligand encapsulation; the impact of an unusual coordination geometry on a supramolecular pyridylphosphine-Zn(II)porphyrin assembly. <i>Inorganic Chemistry</i> , 2005 , 44, 7696-8	5.1	48
243	Ruthenium PNN(O) Complexes: Cooperative Reactivity and Application as Catalysts for Acceptorless Dehydrogenative Coupling Reactions. <i>Organometallics</i> , 2017 , 36, 1541-1549	3.8	47
242	A stable and recyclable supported aqueous phase catalyst for highly selective hydroformylation of higher olefins. <i>Chemical Communications</i> , 1999 , 1633-1634	5.8	47
241	Enantioselective Intramolecular Reductive Heck Reaction with a Palladium/Monodentate Phosphoramidite Catalyst. <i>ChemCatChem</i> , 2017 , 9, 551-554	5.2	46
240	Supramolecular bidentate phosphorus ligands based on bis-zinc(II) and bis-tin(IV) porphyrin building blocks. <i>Dalton Transactions</i> , 2007 , 2302-10	4.3	46
239	Remote Supramolecular Control of Catalyst Selectivity in the Hydroformylation of Alkenes. <i>Angewandte Chemie</i> , 2011 , 123, 416-420	3.6	45
238	Noncovalent anchoring of homogeneous catalysts to silica supports with well-defined binding sites. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14557-66	16.4	45
237	Photoinduced energy and electron transfer in bis-porphyrins with quinoxaline Tröger's base and biquinoxalanyl spacers. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4281-4291	3.6	45
236	An iron-iron hydrogenase mimic with appended electron reservoir for efficient proton reduction in aqueous media. <i>Science Advances</i> , 2016 , 2, e1501014	14.3	44
235	Synthesis, Conformational Analysis, and Binding Properties of Molecular Clips with Two Different Side Walls. <i>Journal of Organic Chemistry</i> , 1997 , 62, 2234-2243	4.2	44
234	Rational Design Rules for Molecular Water Oxidation Catalysts based on Scaling Relationships. <i>Chemistry - A European Journal</i> , 2017 , 23, 16413-16418	4.8	43
233	Selective C-C coupling of Ir-ethene and Ir-carbenoid radicals. <i>Chemistry - A European Journal</i> , 2008 , 14, 7594-9	4.8	43
232	Asymmetric hydrogenation of enamides, alpha-enol and alpha-enamido ester phosphonates catalyzed by IndolPhos-Rh complexes. <i>Journal of Organic Chemistry</i> , 2009 , 74, 8403-6	4.2	42
231	Synthesis of Building Blocks for the Development of the SUPRAPHos Ligand Library and Examples of Their Application in Catalysis. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 6079-6092	3.2	42
230	Gold Catalysis in (Supra)Molecular Cages to Control Reactivity and Selectivity. <i>ChemCatChem</i> , 2019 , 11, 287-297	5.2	42

229	Periodate as an Oxidant for Catalytic Water Oxidation: Oxidation via Electron Transfer or O-Atom Transfer?. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 742-749	2.3	41
228	Ligand Design in Rh(diene)-Mediated Carbene Polymerization; Efficient Synthesis of High-Mass, Highly Stereoregular, and Fully Functionalized Carbon-Chain Polymers. <i>Organometallics</i> , 2010 , 29, 2823-2826	3.8	41
227	Direct probing of photoinduced electron transfer in a self-assembled biomimetic [2Fe2S]-hydrogenase complex using ultrafast vibrational spectroscopy. <i>Inorganic Chemistry</i> , 2014 , 53, 5373-83	5.1	40
226	Isostructural PhosphinePhosphite Ligands in Rhodium-Catalyzed Asymmetric Hydroformylation. <i>Organometallics</i> , 2010 , 29, 4440-4447	3.8	40
225	Bisphosphine based hetero-capsules for the encapsulation of transition metals. <i>Chemical Communications</i> , 2006 , 1700-2	5.8	40
224	Palladium(0)/NHC-Catalyzed Reductive Heck Reaction of Enones: A Detailed Mechanistic Study. <i>Chemistry - A European Journal</i> , 2015 , 21, 18811-20	4.8	39
223	Binuclear Cooperative Catalysts for the Hydrogenation and Hydroformylation of Olefins. <i>ChemCatChem</i> , 2013 , 5, 2785-2793	5.2	39
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