Maurizio Peruzzini

List of Publications by Citations

409 papers	13,448 citations	57 h-index	87 g-index
431 ext. papers	14,448 ext. citations	5.7 avg, IF	6.39 L-index

#	Paper	IF	Citations
409	Coordination chemistry of 1,3,5-triaza-7-phosphaadamantane (PTA). *Coordination Chemistry Reviews*, **2004**, 248, 955-993	23.2	361
408	P4 activation by late-transition metal complexes. *Chemical Reviews*, **2010**, 110, 4178-235	68.1	336
407	Ammonia-Borane and Amine-Borane Dehydrogenation Mediated by Complex Metal Hydrides. *Chemical Reviews*, **2016**, 116, 8848-72	68.1	281
406	CO2 absorption by aqueous NH3 solutions: speciation of ammonium carbamate, bicarbonate and carbonate by a 13C NMR study. *Green Chemistry*, **2006**, 8, 995	10	219
405	Coordination chemistry of 1,3,5-triaza-7-phosphaadamantane (PTA) and derivatives. Part II. The quest for tailored ligands, complexes and related applications. *Coordination Chemistry Reviews*, **2010**, 254, 555-607	23.2	198
404	Coordination chemistry and functionalization of white phosphorus via transition metal complexes. *Chemical Society Reviews*, **2005**, 34, 1038-47	58.5	187
403	In Vitro Evaluation of Rhodium and Osmium RAPTA Analogues: The Case for Organometallic Anticancer Drugs Not Based on Ruthenium. *Organometallics*, **2006**, 25, 4090-4096	3.8	168
402	The Mechanism of the Ru-Assisted C□ Bond Cleavage of Terminal Alkynes by Water. *Journal of the American Chemical Society*, **1996**, 118, 4585-4594	16.4	153
401	A ruthenium(II) enynyl complex mediates the catalytic dimerization of 1-alkynes to Z-1,4-disubstituted enynes. *Journal of the American Chemical Society*, **1991**, 113, 5453-5454	16.4	146
400	Selective hydrogenation of 1-alkynes to alkenes catalyzed by an iron(II) cis-hydride .eta.2-dihydrogen complex. A case of intramolecular reaction between .eta.2-H2 and .sigma.-vinyl ligands. *Organometallics*, **1992**, 11, 138-145	3.8	135
399	Regio- and Stereoselective Dimerization of Phenylacetylene to (Z)-1,4-Diphenylbut-3-en-1-yne by Ruthenium(II) Catalysis. Reaction Mechanism Involving Intermolecular Protonation of .sigma.-Alkynyl by 1-Alkyne. *Organometallics*, **1994**, 13, 4616-4632	3.8	134
398	Synthesis, catalytic properties and biological activity of new water soluble ruthenium cyclopentadienyl PTA complexes [(C5R5)RuCl(PTA)2] (R = H, Me; PTA = 1,3,5-triaza-7-phosphaadamantane). *Chemical Communications*, **2003**, 264-5	5.8	133
397	Carbon dioxide hydrogenation catalysed by well-defined Mn(i) PNP pincer hydride complexes. *Chemical Science*, **2017**, 8, 5024-5029	9.4	129
396	Synthesis, characterization, and DNA binding of new water-soluble cyclopentadienyl ruthenium(II) complexes incorporating phosphines. *Inorganic Chemistry*, **2006**, 45, 1289-98	5.1	123
395	Efficient and Mild Carbon Dioxide Hydrogenation to Formate Catalyzed by Fe(II) Hydrido Carbonyl Complexes Bearing 2,6-(Diaminopyridyl)diphosphine Pincer Ligands. *ACS Catalysis*, **2016**, 6, 2889-2893	13.1	123
394	Efficient CO2 absorption and low temperature desorption with non-aqueous solvents based on 2-amino-2-methyl-1-propanol (AMP). *International Journal of Greenhouse Gas Control*, **2013**, 16, 217-223	4.2	115
393	Chemoselective hydrogen-transfer reduction of .alpha.,.beta.-unsaturated ketones catalyzed by isostructural iron(II), ruthenium(II), and osmium(II) cis-hydride (.eta.2-dihydrogen) complexes. *Organometallics*, **1993**, 12, 3753-3761	3.8	106

392	Tripodal polyphosphine ligands in homogeneous catalysis. 1. Hydrogenation and hydroformylation of alkynes and alkenes assisted by organorhodium complexes with MeC(CH2PPh2)3. *Organometallics*, **1990**, 9, 226-240	3.8	106
391	Tripodal polyphosphine ligands control selectivity of organometallic reactions. *Coordination Chemistry Reviews*, **1992**, 120, 193-208	23.2	103
390	Opening, desulfurization, and hydrogenation of thiophene at iridium. An experimental study in a homogeneous phase. *Journal of the American Chemical Society*, **1993**, 115, 2731-2742	16.4	101
389	Iron(II) Complexes of the Linear rac-Tetraphos-1 Ligand as Efficient Homogeneous Catalysts for Sodium Bicarbonate Hydrogenation and Formic Acid Dehydrogenation. *ACS Catalysis*, **2015**, 5, 1254-1265	13.1	98
388	Stable, water-soluble Pta-based Ru-Ag organometallic polymers. *Angewandte Chemie - International Edition*, **2005**, 44, 2568-72	16.4	96
387	HDS Model Systems. Coordination, Opening, and Hydrogenation of Benzo[b]thiophene at Iridium. *Journal of the American Chemical Society*, **1994**, 116, 4370-4381	16.4	96
386	A 13C NMR study of the carbon dioxide absorption and desorption equilibria by aqueous 2-aminoethanol and N-methyl-substituted 2-aminoethanol. *Energy and Environmental Science*, **2009**, 2, 322	35.4	94
385	C Bond Formation between Vinylidene and Alkynyl Ligands at Ruthenium(II) Leading to either Enynyl or Dienynyl Complexes *Organometallics*, **1996**, 15, 272-285	3.8	92
384	Metal-hydride alkynyl .fwdarw. metal-vinylidene rearrangements occurring in both solid state and solution. Role of the 1-alkyne substituent in determining the relative stability of .pi.-alkyne, hydride alkynyl, and vinylidene forms at cobalt. *Organometallics*, **1991**, 10, 3697-3707	3.8	88
383	Classical and nonclassical polyhydride ruthenium(II) complexes stabilized by the tetraphosphine P(CH2CH2PPh2)3. *Inorganic Chemistry*, **1991**, 30, 279-287	5.1	88
382	Synthesis and characterization of terminal [Re(XCO)(CO)2(triphos)] (X=N, P): isocyanate versus phosphaethynolate complexes. *Chemistry - A European Journal*, **2012**, 18, 14805-11	4.8	87
381	Polyhedron report number 19: Naked phosphorus atoms and units in transition-metal compounds. *Polyhedron*, **1987**, 6, 351-382	2.7	87
380	From greenhouse gas to feedstock: formation of ammonium carbamate from CO2 and NH3 in organic solvents and its catalytic conversion into urea under mild conditions. *Green Chemistry*, **2011**, 13, 1267	10	86
379	Water-Soluble Ruthenium Vinylidene and Allenylidene Complexes: Potential Catalysts for Ring-Opening Metathesis. *Organometallics*, **2000**, 19, 4005-4007	3.8	82
378	Formic acid dehydrogenation catalysed by ruthenium complexes bearing the tripodal ligands triphos and NP3. *Dalton Transactions*, **2013**, 42, 2495-501	4.3	79
377	Functionalization of white phosphorus in the coordination sphere of transition metal complexes. *Journal of Organometallic Chemistry*, **2004**, 689, 4319-4331	2.3	79
376	A deceptively simple case of selective hydrogenation of phenylacetylene to styrene catalyzed by a cis-hydrido(.eta.2-dihydrogen)ruthenium(II) complex. *Organometallics*, **1992**, 11, 3837-3844	3.8	78
375	Continuous cycles of CO2 absorption and amine regeneration with aqueous alkanolamines: a comparison of the efficiency between pure and blended DEA, MDEA and AMP solutions by 13C NMR spectroscopy. *Energy and Environmental Science*, **2010**, 3, 772	35.4	75

374	Rationalization of the inhibition activity of structurally related organometallic compounds against the drug target cathepsin B by DFT. *Dalton Transactions*, **2010**, 39, 5556-63	4.3	74
373	Selective Formic Acid Dehydrogenation Catalyzed by Fe-PNP Pincer Complexes Based on the 2,6-Diaminopyridine Scaffold. *Organometallics*, **2016**, 35, 3344-3349	3.8	74
372	Influence of Structural Variation on the Anticancer Activity of RAPTA-Type Complexes: ptn versus pta. *Organometallics*, **2009**, 28, 1165-1172	3.8	73
371	Grafting of water-soluble phosphines to dendrimers and their use in catalysis: positive dendritic effects in aqueous media. *Dalton Transactions*, **2009**, 4432-4	4.3	71
370	Metal-Mediated Degradation and Reaggregation of White Phosphorus. *Topics in Current Chemistry*, **2002**, 107-140		68
369	A homogeneous iron(II) system capable of selectivity catalyzing the reduction of terminal alkynes to alkenes and buta-1,3-dienes. *Organometallics*, **1989**, 8, 2080-2082	3.8	68
368	Ruthenium-Promoted Z-Selective Head-to-Head Dimerization of Terminal Alkynes in Organic and Aqueous Media. *Organometallics*, **2005**, 24, 4330-4332	3.8	67
367	Amine-templated polymeric lanthanide formates: synthesis, characterization, and applications in luminescence and magnetism. *Inorganic Chemistry*, **2012**, 51, 6962-8	5.1	66
366	Ligand and Solvent Effects in the Alternating Copolymerization of Carbon Monoxide and Olefins by Palladium□Diphosphine Catalysis. *Organometallics*, **2002**, 21, 16-33	3.8	66
365	Rhodium complexes with tripodal polyphosphines as excellent precursors to systems for the activation of H-H and C-H bonds. *Journal of the American Chemical Society*, **1988**, 110, 6411-6423	16.4	66
364	An .eta.4-benzene species mediates acetylene cyclotrimerization. *Journal of the American Chemical Society*, **1991**, 113, 5127-5129	16.4	65
363	Water soluble ruthenium cyclopentadienyl and aminocyclopentadienyl PTA complexes as catalysts for selective hydrogenation of □unsaturated substrates (PTA=1,3,5-triaza-7-phosphaadamantane). *Journal of Molecular Catalysis A*, **2004**, 224, 61-70		64
362	A stable .eta.2-dihydrogen complex of cobalt. Role of the hydrogen-hydrogen interaction in hydrogen transfer from metal to alkene. *Journal of the American Chemical Society*, **1988**, 110, 8725-8726	16.4	64
361	Activation and functionalization of white phosphorus at rhodium: experimental and computational analysis of the [(triphos)Rh (eta1:eta2-P4RR'□]Y complexes (triphos=MeC(CH2PPh2)3; R=H, Alkyl, Aryl; R'□2 electrons, H, Me). *Chemistry - A European Journal*, **2003**, 9, 5196-210	4.8	60
360	Phase Transitions and CO2 Adsorption Properties of Polymeric Magnesium Formate. *Crystal Growth and Design*, **2008**, 8, 3302-3308	3.5	59
359	Asymmetric Hydroformylation of Olefins with Rh Catalysts Modified with Chiral Phosphine□Phosphite Ligands. *Organometallics*, **2007**, 26, 6428-6436	3.8	59
358	Hydrolysis of dinuclear ruthenium complexes [{CpRu(PPh3)2}2(micro,eta(1:1)-L)][CF3SO3]2 (L=P4, P4S3): simple access to metal complexes of P2H4 and PH2SH. *Chemistry - A European Journal*, **2007**, 13, 6682-90	4.8	58
357	Regio- and stereoselective dimerization of 1-alkynes catalyzed by an Os(II) complex. *Inorganica Chimica Acta*, **1994**, 220, 5-19	2.7	58

356	Hydrogen Production by Selective Dehydrogenation of HCOOH Catalyzed by Ru-Biaryl Sulfonated Phosphines in Aqueous Solution. *ACS Catalysis*, **2014**, 4, 3002-3012	13.1	57
355	Organic dyes with intense light absorption especially suitable for application in thin-layer dye-sensitized solar cells. *Chemical Communications*, **2014**, 50, 13952-5	5.8	57
354	Water-Assisted HH Bond Splitting Mediated by [CpRu(PTA)2Cl] (PTA=1,3,5-triaza-7-phosphaadamantane). A DFT Analysis. *Organometallics*, **2007**, 26, 3289-3296	3.8	57
353	Classical, nonclassical, and mixed-metal osmium(II) polyhydrides stabilized by the tetraphosphine P(CH2CH2PPh2)3. Hydrogen/deuterium isotope exchange reactions promoted by a strongly bound dihydrogen ligand. *Inorganic Chemistry*, **1993**, 32, 2366-2376	5.1	57
352	Reversible carbon dioxide capture by aqueous and non-aqueous amine-based absorbents: A comparative analysis carried out by 13C NMR spectroscopy. *Applied Energy*, **2018**, 220, 208-219	10.7	56
351	Reactivity of the [ReNR]3+ and [ReN]2+ cores toward bis(diphenylphosphino)amine and its derivatives. Synthesis and crystal structures. *Journal of the Chemical Society Dalton Transactions*, **1993**, 723-729		56
350	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. *Advanced Materials Interfaces*, **2016**, 3, 1500441	4.6	56
349	Activation of molecular hydrogen over a binuclear complex with Rh2S2 core: DFT calculations and NMR mechanistic studies. *Journal of the American Chemical Society*, **2004**, 126, 11954-65	16.4	55
348	An exceptionally stable cis-(hydride)(□2-dihydrogen) complex of iron. *Journal of Organometallic Chemistry*, **1988**, 354, C19-C22	2.3	55
347	(Pentamethylcyclopentadienyl)iridium-PTA (PTA = 1,3,5-Triaza-7-phosphaadamantane) Complexes and Their Application in Catalytic Water Phase Carbon Dioxide Hydrogenation. *European Journal of Inorganic Chemistry*, **2008**, 2008, 620-627	2.3	54
346	DNA Interactions Mediated by Cyclopentadienidoruthenium(II) Complexes Containing Water-Soluble Phosphanes. *European Journal of Inorganic Chemistry*, **2007**, 2007, 2803-2812	2.3	53
345	Synthesis of Exceptionally Stable Iron and Ruthenium □-tetrahedro-Tetraphosphorus Complexes: Evidence for a Strong Temperature Dependence of M-P □Back Donation. *Angewandte Chemie - International Edition*, **2001**, 40, 3910-3912	16.4	53
344	Carbon Dioxide Reduction to Methanol Catalyzed by Mn(I) PNP Pincer Complexes under Mild Reaction Conditions. *ACS Catalysis*, **2019**, 9, 632-639	13.1	53
343	Highly Efficient Asymmetric Hydrogenation of Alkyl Aryl Ketones Catalyzed by Iridium Complexes with Chiral Planar Ferrocenyl Phosphino-Thioether Ligands. *Advanced Synthesis and Catalysis*, **2007**, 349, 309-313	5.6	52
342	Evidence for a molecular hydrogen complex of rhodium. Some factors affecting cis-dihydride .tautm. .eta.2-dihydrogen exchange. *Journal of the American Chemical Society*, **1987**, 109, 5548-5549	16.4	52
341	Novel water-free biphasic absorbents for efficient CO2 capture. *International Journal of Greenhouse Gas Control*, **2017**, 60, 100-109	4.2	51
340	Easy hydrolysis of white phosphorus coordinated to ruthenium. *Dalton Transactions*, **2005**, 2234-6	4.3	51
339	Synthesis and Characterisation of tetrahedro-Tetraphosphorus Complexes of Rhenium □Evidence for the First Bridging Complex of White Phosphorus. *European Journal of Inorganic Chemistry*, **1999**, 1999, 931-933	2.3	51

338	Reactions of the Rhenium(I) Fragment [{MeC(CH2PPh2)3}Re(CO)2]+. Synthesis and Characterization of a Stable Cationic .eta.2-H2 Complex of Rhenium. *Organometallics*, **1995**, 14, 3203-3215	3.8	51
337	A Comparative Study of the CO2 Absorption in Some Solvent-Free Alkanolamines and in Aqueous Monoethanolamine (MEA). *Environmental Science & Technology*, **2016**, 50, 7239-46	10.3	50
336	A Ruthenium-Based Catalytic System for a Mild Borrowing-Hydrogen Process. *European Journal of Organic Chemistry*, **2015**, 2015, 1829-1833	3.2	50
335	Ab Initio and Experimental Studies on the Structure and Relative Stability of the cis-Hydride-eta(2)-Dihydrogen Complexes [{P(CH(2)CH(2)PPh(2))(3)}M(H)(eta(2)-H(2))](+) (M = Fe, Ru). *Inorganic Chemistry*, **1997**, 36, 1061-1069	5.1	50
334	In-depth NMR and IR study of the proton transfer equilibrium between [{(MeC(CH2PPh2)3}Ru(CO)H2] and hexafluoroisopropanol. *Canadian Journal of Chemistry*, **2001**, 79, 479-489	0.9	50
333	The Mechanism of Acetylene Cyclotrimerization Catalyzed by the fac-IrP3+ Fragment: The Relationship between Fluxionality and Catalysis. *Organometallics*, **1994**, 13, 2010-2023	3.8	50
332	Coordination chemistry of 1,3,5-triaza-7-phosphatricyclo[3.3.1.1]decane (PTA) and derivatives. Part III. Variations on a theme: Novel architectures, materials and applications. *Coordination Chemistry Reviews*, **2018**, 355, 328-361	23.2	49
331	First Examples of Rhenium-Assisted Activation of Propargyl Alcohols: Allenylidene, Carbene, and Vinylidene Rhenium(I) Complexes. *Organometallics*, **1999**, 18, 4501-4508	3.8	49
330	Electrochemistry as a diagnostic tool to discriminate between classical M-(H)2 and nonclassical M-(H2) structures within a family of dihydride and dihydrogen metal complexes. *Inorganic Chemistry* , **1990**, 29, 3394-3402	5.1	49
329	Improved solvent formulations for efficient CO absorption and low-temperature desorption. *ChemSusChem*, **2012**, 5, 1724-31	8.3	47
328	Stabilization of the tautomers HP(OH)2 and P(OH)3 of hypophosphorous and phosphorous acids as ligands. *Dalton Transactions*, **2006**, 389-95	4.3	47
327	Multiple Re Bonds at the [{MeC(CH2PPh2)3}Re(CO)2]+Auxiliary. *Organometallics*, **1996**, 15, 3804-3816	3.8	47
326	Activation of 1-alkynes at tripodal (polyphosphine)rhodium systems. Regioselective synthesis of enol esters from 1-alkynes and carboxylic acids catalyzed by rhodium(I) monohydrides. *Organometallics*, **1990**, 9, 1155-1160	3.8	47
325	Phosphorus chalcogenides as ligands in d10 metal complexes. *Inorganic Chemistry*, **1983**, 22, 2196-2198	5.1	47
324	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. *Chemistry of Materials*, **2018**, 30, 2036-2048	9.6	46
323	Decoration of exfoliated black phosphorus with nickel nanoparticles and its application in catalysis. *Chemical Communications*, **2017**, 53, 10946-10949	5.8	46
322	A family of stable iron(I) .sigma.-alkynyl complexes. Synthesis, characterization, structure, and electron-transfer chemistry. *Journal of the American Chemical Society*, **1993**, 115, 2723-2730	16.4	46
321	Photochemistry of M(PP3)H2 (M = Ru, Os; PP3 = P(CH2CH2PPh2)3): Preparative, NMR, and Time-Resolved Studies. *Journal of the American Chemical Society*, **1997**, 119, 8459-8473	16.4	45

320	Synthesis of Dendrimers Terminated by Bis(diphenylphosphinomethyl)amino Ligands and Use of Their Palladium Complexes for Catalyzing C□C Cross-Coupling Reactions. *Organometallics*, **2008**, 27, 2066-2073	3.8	45
319	Low-temperature IR and NMR studies of the interaction of group 8 metal dihydrides with alcohols. *Chemistry - A European Journal*, **2003**, 9, 2219-28	4.8	45
318	Selective B□H versus N□H Bond Activation in Ammonia Borane by [Ir(dppm)2]OTf. *European Journal of Inorganic Chemistry*, **2009**, 2009, 3055-3059	2.3	44
317	Synthesis and Reactivity of the Labile Dihydrogen Complex [{MeC(CH(2)PPh(2))(3)}Ir(H(2))(H)(2)]BPh(4). *Inorganic Chemistry*, **1997**, 36, 5818-5825	5.1	44
316	Amino-phosphanes in RhI-Catalyzed Hydroformylation: Hemilabile Behavior of P,N Ligands under High CO Pressure and Catalytic Properties. *European Journal of Inorganic Chemistry*, **2006**, 2006, 51-61	2.3	44
315	New Class of Half-Sandwich Ruthenium(II) Arene Complexes Bearing the Water-Soluble CAP Ligand as an in Vitro Anticancer Agent. *Inorganic Chemistry*, **2017**, 56, 5514-5518	5.1	43
314	Organic Chromophores Based on a Fused Bis-Thiazole Core and Their Application in Dye-Sensitized Solar Cells. *European Journal of Organic Chemistry*, **2013**, 2013, 1916-1928	3.2	43
313	Aqueous rhodium-catalyzed hydroformylation of 1-decene in the presence of randomly methylated □-cyclodextrin and 1,3,5-triaza-7-phosphaadamantane derivatives. *Applied Catalysis A: General*, **2009**, 362, 62-66	5.1	43
312	Acid-base interaction between transition-metal hydrides: dihydrogen bonding and dihydrogen evolution. *Angewandte Chemie - International Edition*, **2011**, 50, 1367-70	16.4	42
311	Experimental evidence of phosphine oxide generation in solution and trapping by ruthenium complexes. *Angewandte Chemie - International Edition*, **2011**, 50, 5370-3	16.4	42
310	Controlling the activation of white phosphorus: formation of phosphorous acid and ruthenium-coordinated 1-hydroxytriphosphane by hydrolysis of doubly metalated P4. *Angewandte Chemie - International Edition*, **2008**, 47, 4425-7	16.4	42
309	Aminocarbene Complexes as Intermediates in the Ruthenium-Assisted Aminolysis of Phenylacetylene to Isonitriles and Toluene. *Organometallics*, **1999**, 18, 2376-2386	3.8	42
308	Solid-state organometallic chemistry of tripodal (polyphosphine)metal complexes. Carbon-hydrogen activation reactions at cobalt(I) encapsulated into the tetraphosphine P(CH2CH2PPh2)3. *Organometallics*, **1991**, 10, 3415-3417	3.8	42
307	Exfoliated Black Phosphorus Promotes in Vitro Bone Regeneration and Suppresses Osteosarcoma Progression through Cancer-Related Inflammation Inhibition. *ACS Applied Materials & Interfaces*, **2019**, 11, 9333-9342	9.5	42
306	Amine-templated polymeric Mg formates: crystalline scaffolds exhibiting extensive hydrogen bonding. *CrystEngComm*, **2012**, 14, 4454	3.3	41
305	Nickel(II) hydride and fluoride pincer complexes and their reactivity with Lewis acids BX3□L (X = H, L = thf; X = F, L = Et2O). *Dalton Transactions*, **2011**, 40, 4447-52	4.3	41
304	A snapshot of P4 tetrahedron opening: Rh- and Ir-mediated activation of white phosphorus. *Angewandte Chemie - International Edition*, **2006**, 45, 4182-5	16.4	41
303	Addition of E□H Bonds (E = S, N) across the C□B Bond of the Allenylidene Ligand in [Re{CCCPh2}(CO)2(triphos)](OSO2CF3) (Triphos = MeC(CH2PPh2)3). *Organometallics*, **2002**, 21, 2382-2394	3.8	41

302	Synthesis of the New Chiral Aminodiphosphine Ligands (R)- and (S)-(.alpha.-Methylbenzyl)bis(2-(diphenylphosphino)ethyl)amine and Their Use in the Enantioselective Reduction of .alpha.,.beta.-Unsaturated Ketones to Allylic Alcohols by Iridium Catalysis. *Organometallics*, **1995**, 14, 1489-1502	3.8	41
301	Hydrodesulfurization model systems. Homogeneous and heterogeneous (solid-gas) hydrogenation of benzothiophene at iridium. *Journal of the American Chemical Society*, **1993**, 115, 7505-7506	16.4	39
300	The P4Se3 cage molecule as a ligand. Crystal structure of [(N(CH2CH2PPh2)3) Ni(P4Se3]□2C6H6. *Journal of Organometallic Chemistry*, **1983**, 258, 373-381	2.3	39
299	A 13C NMR investigation of CO2 absorption and desorption in aqueous 2,2?-iminodiethanol and N-methyl-2,2?-iminodiethanol. *International Journal of Greenhouse Gas Control*, **2011**, 5, 448-456	4.2	38
298	Oxidation of Thiophene Derivatives with H2O2 in Acetonitrile Catalyzed by [Cp*2M2O5] (M = Mo, W): A Kinetic Study. *Organometallics*, **2008**, 27, 2281-2286	3.8	38
297	Synthesis, Characterization, and Electrochemical Behavior of Mono- and Bimetallic Ruthenium and Rhenium Allenylidenes Bearing Multiconjugated Organic Spacers. *Organometallics*, **2005**, 24, 405-418	3.8	38
296	Synthesis, redox properties, and reactivity of a novel family of electron-rich vinylidene and vinylphosphonium complexes of rhodium(I). *Organometallics*, **1990**, 9, 241-250	3.8	38
295	Synthesis and characterization of gold adducts of [M(tppme)(P3)][M = Co, Rh, or Ir; tppme = 1,1,1-tris(diphenylphosphinomethyl)ethane]. X-Ray crystal structures of [Au{M(tppme)(P3)}2]PF6(M = Co, Rh, or Ir). *Journal of the Chemical Society Dalton Transactions*, **1990**, 109		38
294	Crystal structure of the cis hydride acetyl complex [{N(CH2CH2PPh2)3}Rh(H)(COMe)]BPh4. One-pot synthesis of (.sigma.-acyl)metal complexes from aldehydes. *Organometallics*, **1991**, 10, 820-823	3.8	38
293	Catalytic amine-borane dehydrogenation by a PCP-pincer palladium complex: a combined experimental and DFT analysis of the reaction mechanism. *Dalton Transactions*, **2013**, 42, 3533-41	4.3	37
292	The role of zinc(II) in the absorption-desorption of CO2 by aqueous NH3, a potentially cost-effective method for CO2 capture and recycling. *ChemSusChem*, **2008**, 1, 228-35	8.3	37
291	Metal-Assisted P□H Bond Formation: A Step towards the Hydrogenation of White Phosphorus. *European Journal of Inorganic Chemistry*, **2001**, 2001, 593-608	2.3	37
290	Selective C□H bond cleavage by water in allenylidene and alkenylvinylidene ruthenium complexes. *Chemical Communications*, **1999**, 443-444	5.8	37
289	Oxidative addition/reductive elimination of aldehydes and ketones at rhodium. *Organometallics*, **1989**, 8, 337-345	3.8	37
288	Reactions of the trigonal-bipyramidal cobalt(I) hydride [{P(CH2CH2PPh2)3}CoH] with 1-alkynes. Synthesis and reactivity of acetylide, alkenyl, and vinylidene complexes. *Organometallics*, **1990**, 9, 2514-2522	3.8	37
287	Thermal and photochemical carbon-hydrogen bond activation reactions at iridium. .pi.-Coordination vs. C-H cleavage of ethene, styrene, and phenylacetylene. *Organometallics*, **1993**, 12, 2505-2514	3.8	36
286	Coupling of two ethyne molecules at rhodium versus coupling of two rhodium atoms at ethyne. 2. Implications for the reactivity. Catalytic and stoichiometric functionalization reactions of ethyne. *Organometallics*, **1991**, 10, 645-651	3.8	36
285	High-pressure chemistry of red phosphorus and water under near-UV irradiation. *Angewandte Chemie - International Edition*, **2013**, 52, 2313-7	16.4	34

284	In situ IR and NMR study of the interactions between proton donors and the Re(I) hydride complex [{MeC(CH2PPh2)3}Re (CO)2H]. ReHH bonding and proton-transfer pathways. *Inorganica Chimica Acta*, **1998**, 280, 302-307	2.7	34
283	Electrophilic attack on unsubstituted phosphorus units in transition metal compounds: synthesis and characterization of the methyltriphosphirene unit stabilized by transition metal ligand fragments. *Journal of the Chemical Society Chemical Communications*, **1986**, 1799-1800		34
282	Comparative Study of CO2 Capture by Aqueous and Nonaqueous 2-Amino-2-methyl-1-propanol Based Absorbents Carried Out by 13C NMR and Enthalpy Analysis. *Industrial & Engineering Chemistry Research*, **2019**, 58, 4364-4373	3.9	33
281	Thiazolo[5,4-d]thiazole-based organic sensitizers with strong visible light absorption for transparent, efficient and stable dye-sensitized solar cells. *RSC Advances*, **2015**, 5, 32657-32668	3.7	33
280	Novel synthetic pathways for bis(acyl)phosphine oxide photoinitiators. *Angewandte Chemie - International Edition*, **2012**, 51, 7895-7	16.4	33
279	HDS model systems. 2,3-Dihydrothiophene as an intermediate in the homogeneous hydrogenation of thiophene to tetrahydrothiophene at iridium. *Organometallics*, **1994**, 13, 721-730	3.8	33
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