

Maurizio Peruzzini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Understanding the potential benefits of blended ternary amine systems for CO ₂ capture processes through ¹³ C NMR speciation study and energy cost analysis. <i>Separation and Purification Technology</i> , 2022 , 291, 120939	8.3	4
408	Direct CO ₂ capture from air with aqueous and nonaqueous diamine solutions: a comparative investigation based on ¹³ C NMR analysis. <i>Carbon Capture Science & Technology</i> , 2022 , 100049		2
407	Unraveling the Role of Metal Oxide Catalysts in the CO ₂ Desorption Process from Nonaqueous Sorbents: An Experimental Study Carried out with ¹³ C NMR. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 15419-15426	8.3	5
406	Incorporation of 2D black phosphorus (2D-bP) in P3HT/PMMA mixtures for novel materials with tuned spectroscopic, morphological and electric features. <i>FlatChem</i> , 2021 , 30, 100314	5.1	2
405	Large-Area Oxidized Phosphorene Nanoflakes Obtained by Electrospray for Energy-Harvesting Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3476-3485	5.6	3
404	Carbon Dioxide Hydrogenation to Formate Catalyzed by a Bench-Stable, Non-Pincer-Type Mn(II) Alkylcarbonyl Complex. <i>Organometallics</i> , 2021 , 40, 1213-1220	3.8	12
403	Interlayer Coordination of Pd-Pd Units in Exfoliated Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10088-10098	16.4	2
402	Black Phosphorus n-Type Doping by Cu: A Microscopic Surface Investigation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13477-13484	3.8	1
401	Interfacial chemistry and electroactivity of black phosphorus decorated with transition metals. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 684-692	6.8	3
400	Recent Advances in Metal Catalyst Design for CO ₂ Hydroboration to C1 Derivatives. <i>Catalysts</i> , 2021 , 11, 58	4	8
399	2D exfoliated black phosphorus influences healthy and cancer prostate cell behaviors. <i>Scientific Reports</i> , 2021 , 11, 5856	4.9	0
398	Dispersion of Few-Layer Black Phosphorus in Binary Polymer Blend and Block Copolymer Matrices. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
397	Air Stable Nickel-Decorated Black Phosphorus and Its Room-Temperature Chemiresistive Gas Sensor Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44711-44722	9.5	10
396	Bifunctional activation of amine-boranes by the W/Pd bimetallic analogs of "frustrated Lewis pairs". <i>Chemical Science</i> , 2021 , 12, 3682-3692	9.4	7
395	Easy and fast in situ functionalization of exfoliated 2D black phosphorus with gold nanoparticles. <i>Dalton Transactions</i> , 2021 , 50, 11610-11618	4.3	1
394	Mild and Selective Carbon Dioxide Hydroboration to Methoxyboranes Catalyzed by Mn(II) PNP Pincer Complexes. <i>ChemCatChem</i> , 2020 , 12, 4625-4631	5.2	15
393	High-Pressure Synthesis of Cyclic Phosphazenes by Near-UV Photoinduced Reactivity of NH ₃ and Elemental Phosphorus. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4308-4319	3.8	0

392	Catalysis Mediated by 2D Black Phosphorus Either Pristine or Decorated with Transition Metals Species. <i>Surfaces</i> , 2020 , 3, 132-167	2.9	5
391	Enhanced ambient stability of exfoliated black phosphorus by passivation with nickel nanoparticles. <i>Nanotechnology</i> , 2020 , 31, 275708	3.4	15
390	On the comparison of oxygen and sulfur transfer reactivities in phosphine and phosphorene: the case of RSb(X) carriers (X = O or S). <i>Dalton Transactions</i> , 2020 , 49, 15072-15080	4.3	4
389	Anisotropic thermal expansion of black phosphorus from nanoscale dynamics of phosphorene layers. <i>Nanoscale</i> , 2020 , 12, 4491-4497	7.7	5
388	Diffusion NMR Studies on the Self-Aggregation of Ru-Arene CAP Complexes: Evidence for the Formation of H-Bonded Dicationic Species in Acetonitrile. <i>Organometallics</i> , 2020 , 39, 941-948	3.8	4
387	High pressure synthesis of phosphine from the elements and the discovery of the missing (PH)H tile. <i>Nature Communications</i> , 2020 , 11, 6125	17.4	2
386	Screening Study of Different Amine-Based Solutions as Sorbents for Direct CO ₂ Capture from Air. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14013-14021	8.3	22
385	Nonclassical Longitudinal Magnetoresistance in Anisotropic Black Phosphorus. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900347	2.5	4
384	Ruthenium mediated halogenation of white phosphorus: synthesis and reactivity of the unprecedented PCl moiety. <i>Dalton Transactions</i> , 2019 , 48, 3593-3600	4.3	13
383	Noncovalent Functionalization of 2D Black Phosphorus with Fluorescent Boronic Derivatives of Pyrene for Probing and Modulating the Interaction with Molecular Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22637-22647	9.5	31
382	Ammonia borane and hydrazine bis(borane) dehydrogenation mediated by an unsymmetrical (PNN) ruthenium pincer hydride: metal-ligand cooperation for hydrogen production. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2583-2596	5.8	9
381	Metal-Assisted Opening of Intact P Tetrahedra. <i>Chemistry - A European Journal</i> , 2019 , 25, 6300-6305	4.8	12
380	Comparative Study of CO ₂ Capture by Aqueous and Nonaqueous 2-Amino-2-methyl-1-propanol Based Absorbents Carried Out by ¹³ C NMR and Enthalpy Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4364-4373	3.9	33
379	Phosphorene and Black Phosphorus: The P NMR View. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5122-5127	6.4	14
378	Epitaxial multilayers of alkanes on two-dimensional black phosphorus as passivating and electrically insulating nanostructures. <i>Nanoscale</i> , 2019 , 11, 17252-17261	7.7	11
377	Recent advances in transition metal-mediated transformations of white phosphorus. <i>Advances in Organometallic Chemistry</i> , 2019 , 173-222	3.8	10
376	Metal-free carbon-based materials for electrocatalytic and photo-electrocatalytic CO ₂ reduction. <i>Rendiconti Lincei</i> , 2019 , 30, 497-513	1.7	5
375	Black Phosphorus/Palladium Nanohybrid: Unraveling the Nature of P-Pd Interaction and Application in Selective Hydrogenation. <i>Chemistry of Materials</i> , 2019 , 31, 5075-5080	9.6	29

374	H ₂ production from lightweight inorganic hydrides catalyzed by 3d transition metals. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 25746-25776	6.7	18
373	Exfoliated Black Phosphorus Promotes in Vitro Bone Regeneration and Suppresses Osteosarcoma Progression through Cancer-Related Inflammation Inhibition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9333-9342	9.5	42
372	STM study of exfoliated few layer black phosphorus annealed in ultrahigh vacuum. <i>2D Materials</i> , 2019 , 6, 015005	5.9	13
371	Carbon Dioxide Reduction to Methanol Catalyzed by Mn(II) PNP Pincer Complexes under Mild Reaction Conditions. <i>ACS Catalysis</i> , 2019 , 9, 632-639	13.1	53
370	A Perspective on Recent Advances in Phosphorene Functionalization and Its Applications in Devices. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1476-1494	2.3	26
369	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. <i>Chemistry of Materials</i> , 2018 , 30, 2036-2048	9.6	46
368	Phosphorus oxide gate dielectric for black phosphorus field effect transistors. <i>Applied Physics Letters</i> , 2018 , 112, 173101	3.4	14
367	Hybrid nanocomposites of 2D black phosphorus nanosheets encapsulated in PMMA polymer material: new platforms for advanced device fabrication. <i>Nanotechnology</i> , 2018 , 29, 295601	3.4	20
366	Reversible carbon dioxide capture by aqueous and non-aqueous amine-based absorbents: A comparative analysis carried out by ¹³ C NMR spectroscopy. <i>Applied Energy</i> , 2018 , 220, 208-219	10.7	56
365	Influence of highly basic phosphine ligand on the reactivity and hydrolysis of P ₄ and P ₄ S ₃ supported by ruthenium fragments. <i>Journal of Organometallic Chemistry</i> , 2018 , 859, 68-74	2.3	7
364	The atomic level mechanism of white phosphorous demolition by di-iodine. <i>Dalton Transactions</i> , 2018 , 47, 394-408	4.3	14
363	Dual properties of water-soluble Ru-PTA complexes of dendrimers: Catalysis and interaction with DNA. <i>Inorganica Chimica Acta</i> , 2018 , 470, 106-112	2.7	15
362	More about the redox behavior of late transition metal triple-decker complexes with cyclo-triphosphorus. <i>Inorganica Chimica Acta</i> , 2018 , 470, 428-432	2.7	3
361	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. <i>Coordination Chemistry Reviews</i> , 2018 , 355, 328-361	23.2	49
360	Spray-loading: A cryogenic deposition method for diamond anvil cell. <i>Review of Scientific Instruments</i> , 2018 , 89, 053903	1.7	3
359	Ruthenium(II)-Arene Complexes of the Water-Soluble Ligand CAP as Catalysts for Homogeneous Transfer Hydrogenations in Aqueous Phase. <i>Catalysts</i> , 2018 , 8, 88	4	8
358	The p-sc structure in phosphorus: bringing order to the high pressure phases of group 15 elements. <i>Chemical Communications</i> , 2018 , 54, 10554-10557	5.8	9
357	Mechanistic Studies on NaHCO Hydrogenation and HCOOH Dehydrogenation Reactions Catalysed by a Fe Linear Tetrphosphine Complex. <i>Chemistry - A European Journal</i> , 2018 , 24, 5366-5372	4.8	7

356	Modelling strategies for the covalent functionalization of 2D phosphorene. <i>Dalton Transactions</i> , 2018 , 47, 17243-17256	4.3	23
355	Amine Boranes Dehydrogenation Mediated by an Unsymmetrical Iridium Pincer Hydride: (PCN) vs (PCP) Improved Catalytic Performance. <i>Organometallics</i> , 2018 , 37, 3142-3153	3.8	25
354	Water-Soluble Silver(I) Complexes Featuring the Hemilabile 3,7-Dimethyl-1,3,5-triaza-7-phospha-bicyclo[3.3.1]nonane Ligand: Synthesis, Characterization, and Antimicrobial Activity. <i>Inorganic Chemistry</i> , 2018 , 57, 6309-6323	5.1	8
353	Carbon dioxide hydrogenation catalysed by well-defined Mn(II) PNP pincer hydride complexes. <i>Chemical Science</i> , 2017 , 8, 5024-5029	9.4	129
352	New Class of Half-Sandwich Ruthenium(II) Arene Complexes Bearing the Water-Soluble CAP Ligand as an in Vitro Anticancer Agent. <i>Inorganic Chemistry</i> , 2017 , 56, 5514-5518	5.1	43
351	Novel water-free biphasic absorbents for efficient CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 60, 100-109	4.2	51
350	Ammonia Borane Dehydrogenation Catalyzed by (E)Co(H) [EP = E(CHCHPPh); E = N, P] and H Evolution from Their Interaction with NH Acids. <i>Inorganic Chemistry</i> , 2017 , 56, 4296-4307	5.1	26
349	Interlayer Bond Formation in Black Phosphorus at High Pressure. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14135-14140	16.4	21
348	Decoration of exfoliated black phosphorus with nickel nanoparticles and its application in catalysis. <i>Chemical Communications</i> , 2017 , 53, 10946-10949	5.8	46
347	Competition between the Hydride Ligands of Two Types in Proton Transfer to [β-P-CH ₃ C(CH ₂ CH ₂ PPh ₂) ₃ RuH(η ⁻ BH ₄)]. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 4673-4682 ^{2,3}	2.3	11
346	CO ₂ capture by aqueous Na ₂ CO ₃ integrated with high-quality CaCO ₃ formation and pure CO ₂ release at room conditions. <i>Journal of CO₂ Utilization</i> , 2017 , 22, 346-354	7.6	22
345	Interlayer Bond Formation in Black Phosphorus at High Pressure. <i>Angewandte Chemie</i> , 2017 , 129, 14323-14328 ³	14.3	25
344	Binuclear Copper(I) Borohydride Complex Containing Bridging Bis(diphenylphosphino) Methane Ligands: Polymorphic Structures of [(η ⁻ 2-dppm) ₂ Cu ₂ (η ⁻ BH ₄) ₂] Dichloromethane Solvate. <i>Crystals</i> , 2017 , 7, 318	2.3	10
343	Benign Chlorine-Free Approaches to Organophosphorus Compounds 2016 , 97-136		6
342	A Comparative Study of the CO ₂ Absorption in Some Solvent-Free Alkanolamines and in Aqueous Monoethanolamine (MEA). <i>Environmental Science & Technology</i> , 2016 , 50, 7239-46	10.3	50
341	Novel polystyrene-based nanocomposites by phosphorene dispersion. <i>RSC Advances</i> , 2016 , 6, 53777-53783 ³	3.7	18
340	An active, stable and recyclable Ru(II) tetrakisphosphine-based catalytic system for hydrogen production by selective formic acid dehydrogenation. <i>Catalysis Science and Technology</i> , 2016 , 6, 6504-6512 ⁵	5.2	29
339	Carbon dioxide uptake as ammonia and amine carbamates and their efficient conversion into urea and 1,3-disubstituted ureas. <i>Journal of CO₂ Utilization</i> , 2016 , 13, 81-89	7.6	26

- 338 A straightforward access to ruthenium-coordinated fluorophosphines from phosphorous oxyacids. *Dalton Transactions*, **2016**, 45, 2284-93 4.3 3
- 337 o-Eugenol: A Versatile Molecule for Production of Polyfunctional Alkenes via Organometallic Catalysis. *Asian Journal of Chemistry*, **2016**, 28, 960-964 0.4 2
- 336 Metal-Free Reduction of Phosphine Oxides Using Polymethylhydrosiloxane. *Inorganics*, **2016**, 4, 34 2.9 7
- 335 Dihydrogen Bonding and Proton Transfer from MH and OH Acids to Group 10 Metal Hydrides [(tBuPCP)MH] [tBuPCP = B-2,6-(tBu₂PCH₂)₂C₆H₃; M = Ni, Pd]. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1415-1424 2.3 14
- 334 Zinc Coordination Polymers Containing the m-(2-thiazolyl)benzoic Acid Spacer: Synthesis, Characterization and Luminescent Properties in Aqueous Solutions. *ChemistrySelect*, **2016**, 1, 1123-1131 1.8 6
- 333 Dephasing in strongly anisotropic black phosphorus. *Physical Review B*, **2016**, 94, 3.3 13
- 332 Reactions of the Lithiated Diphosphine tBu₂PB(SiMe₃)Li with [(tBu-C₆H₆)RuCl₂]₂ in the Presence of Tertiary Phosphines. *European Journal of Inorganic Chemistry*, **2016**, 2016, 4241-4249 2.3 4
- 331 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
- 330 Ammonia-Borane and Amine-Borane Dehydrogenation Mediated by Complex Metal Hydrides. *Chemical Reviews*, **2016**, 116, 8848-72 68.1 281
- 329 Two pathways of proton transfer reaction to (triphos)Cu([1]-BH₄) via a dihydrogen bond [triphos = 1,1,1-tris(diphenylphosphinomethyl)ethane]. *Dalton Transactions*, **2016**, 45, 9127-35 4.3 14
- 328 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
- 327 The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. *Advanced Materials Interfaces*, **2016**, 3, 1500441 4.6 56
- 326 Cooperative effects of ruthenium micellar catalysts and added surfactants in transfer hydrogenation of ketones in water. *Catalysis Science and Technology*, **2015**, 5, 4458-4465 5.5 4
- 325 New Wind in Old Sails: Novel Applications of Triphos-based Transition Metal Complexes as Homogeneous Catalysts for Small Molecules and Renewables Activation. *Chimia*, **2015**, 69, 331-8 1.3 9
- 324 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
- 323 Two New Dyes with Carboxypyridinium Regioisomers as Anchoring Groups for Dye-Sensitized Solar Cells. *Synlett*, **2015**, 26, 2389-2394 2.2 2
- 322 Homogenous catalytic hydrogenation of bicarbonate with water soluble aryl phosphine ligands. *Inorganica Chimica Acta*, **2015**, 431, 132-138 2.7 6
- 321 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

320	A Ruthenium-Based Catalytic System for a Mild Borrowing-Hydrogen Process. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 1829-1833	3.2	50
319	Cyclodextrins as first and second sphere ligands for Rh(I) complexes of lower-rim PTA derivatives for use as catalysts in aqueous phase hydrogenation. <i>Catalysis Communications</i> , 2015 , 63, 74-78	3.2	9
318	Cross-coupling reactions: Some applications to the synthesis of thiazolothiazole- and benzobisthiazole-based dyes for new generation solar cells (DSSC). <i>Journal of Organometallic Chemistry</i> , 2014 , 771, 117-123	2.3	8
317	1D and 2D Thiazole-Based Copper(II) Coordination Polymers: Synthesis and Applications in Carbon Dioxide Capture. <i>ChemPlusChem</i> , 2014 , 79, 406-412	2.8	14
316	Transfer hydrogenation of ketones catalyzed by surface-active ruthenium and rhodium complexes in water. <i>Chemistry - A European Journal</i> , 2014 , 20, 846-54	4.8	19
315	Chemical curing in alkyd paints: an evaluation via FT-IR and NMR spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 118, 520-5	4.4	21
314	Dihydrogen bonding in complex (PP3)RuH(1-BH4) featuring two proton-accepting hydride sites: experimental and theoretical studies. <i>Inorganic Chemistry</i> , 2014 , 53, 1080-90	5.1	21
313	Electronic aspects of the phosphine-oxide \rightleftharpoons phosphinous acid tautomerism and the assisting role of transition metal centers. <i>Journal of Organometallic Chemistry</i> , 2014 , 760, 177-185	2.3	30
312	The quest for hydrogen bond-based metal organic nanotubes (MONT). <i>Journal of Coordination Chemistry</i> , 2014 , 67, 3863-3872	1.6	8
311	Hydrogen Production by Selective Dehydrogenation of HCOOH Catalyzed by Ru-Biaryl Sulfonated Phosphines in Aqueous Solution. <i>ACS Catalysis</i> , 2014 , 4, 3002-3012	13.1	57
310	Chemical Hydrogen Storage: Ammonia Borane Dehydrogenation Catalyzed by NP3 Ruthenium Hydrides (NP3=N(CH2CH2PPh2)3). <i>ChemPlusChem</i> , 2014 , 79, 1316-1325	2.8	18
309	The Bimetallic Activation of White Phosphorus by trans-[RhCl(CO)(dppm)]2 Results in a Tetrahedro-Rh2P2 Moiety. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1652-1659	2.3	9
308	Organic dyes with intense light absorption especially suitable for application in thin-layer dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 13952-5	5.8	57
307	Bifunctional metallodendrimers based on AB5 derivatives of cyclotriphosphazene as core and P,N ligands as terminal functions. <i>Inorganica Chimica Acta</i> , 2014 , 409, 121-126	2.7	11
306	Reactivity of Diimido Complexes of Molybdenum and Tungsten towards Lithium Derivatives of Diphosphanes and Triphosphanes. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1811-1817	2.3	15
305	A comparison of carboxypyridine isomers as sensitizers for dye-sensitized solar cells: assessment of device efficiency and stability. <i>Tetrahedron</i> , 2014 , 70, 6285-6295	2.4	22
304	[IrCp*(NCMe)2(PPh2Me)][PF6]2 as Catalyst for the Meyer-Schuster Rearrangement of Arylpropargylic Alcohols under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 6268-6274	2.3	3
303	High pressure chemistry of red phosphorus by photo-activated simple molecules. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 022008	0.3	4

302	Synthesis, reactivity and catalytic properties of the allenylidene [Ru(CCCPh ₂)Cp(PTA)(PPh ₃)](CF ₃ SO ₃) (PTA = 1,3,5-triaza-7-phosphaadamantane). <i>Journal of Organometallic Chemistry</i> , 2014 , 751, 654-661	2.3	16
301	Catalytic amine-borane dehydrogenation by a PCP-pincer palladium complex: a combined experimental and DFT analysis of the reaction mechanism. <i>Dalton Transactions</i> , 2013 , 42, 3533-41	4.3	37
300	Interaction between a transition-metal fluoride and a transition-metal hydride: water-mediated hydrofluoric acid evolution following fluoride solvation. <i>Inorganic Chemistry</i> , 2013 , 52, 12616-23	5.1	11
299	Stabilization of the triphosphallyl ligand [B-P ₃ {P(O)H}] at iridium via alkaline activation of P ₄ . <i>Chemistry - an Asian Journal</i> , 2013 , 8, 3177-84	4.5	10
298	Assessment of new gem-silanediods as suitable sensitizers for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2013 , 723, 198-206	2.3	11
297	High-pressure chemistry of red phosphorus and water under near-UV irradiation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2313-7	16.4	34
296	Organic Chromophores Based on a Fused Bis-Thiazole Core and Their Application in Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 1916-1928	3.2	43
295	Water-Soluble, 1,3,5-Triaza-7-phosphaadamantane-Stabilized Palladium Nanoparticles and their Application in Biphasic Catalytic Hydrogenations at Room Temperature. <i>ChemCatChem</i> , 2013 , 5, 2517-2526	5.2	19
294	An unusual thiazolo[5,4-d]thiazole sensitizer for dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2013 , 54, 3944-3948	2	11
293	Efficient CO ₂ absorption and low temperature desorption with non-aqueous solvents based on 2-amino-2-methyl-1-propanol (AMP). <i>International Journal of Greenhouse Gas Control</i> , 2013 , 16, 217-223	4.2	115
292	Formic acid dehydrogenation catalysed by ruthenium complexes bearing the tripodal ligands triphos and NP3. <i>Dalton Transactions</i> , 2013 , 42, 2495-501	4.3	79
291	Inner- versus Outer-Sphere Ru-Catalyzed Formic Acid Dehydrogenation: A Computational Study. <i>Organometallics</i> , 2013 , 32, 7053-7064	3.8	30
290	The role of metals and ligands in organic hydroformylation. <i>Topics in Current Chemistry</i> , 2013 , 342, 1-47		17
289	High-Pressure Chemistry of Red Phosphorus and Water under Near-UV Irradiation. <i>Angewandte Chemie</i> , 2013 , 125, 2369-2373	3.6	8
288	Number of terminal groups versus generation of the dendrimer, which criteria influence the catalytic properties?. <i>Tetrahedron Letters</i> , 2012 , 53, 3876-3879	2	19
287	Synthesis, characterization and CO ₂ uptake of a chiral Co(II) metal-organic framework containing a thiazolidine-based spacer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10335		32
286	Synthesis and characterization of terminal [Re(XCO)(CO) ₂ (triphos)] (X=N, P): isocyanate versus phosphaehtynolate complexes. <i>Chemistry - A European Journal</i> , 2012 , 18, 14805-11	4.8	87
285	Electron-Poor Rhenium Allenylidenes and Their Reactivity toward Phosphines: A Combined Experimental and Theoretical Study. <i>Organometallics</i> , 2012 , 31, 57-69	3.8	13

284	Amine-templated polymeric Mg formates: crystalline scaffolds exhibiting extensive hydrogen bonding. <i>CrystEngComm</i> , 2012 , 14, 4454	3.3	41
283	Dimerization mechanism of bis(triphenylphosphine)copper(I) tetrahydroborate: proton transfer via a dihydrogen bond. <i>Inorganic Chemistry</i> , 2012 , 51, 6486-97	5.1	28
282	The first water-soluble tetraphosphorus ruthenium complex. Synthesis, characterization and kinetic study of its hydrolysis. <i>Journal of Organometallic Chemistry</i> , 2012 , 714, 67-73	2.3	7
281	Amine-templated polymeric lanthanide formates: synthesis, characterization, and applications in luminescence and magnetism. <i>Inorganic Chemistry</i> , 2012 , 51, 6962-8	5.1	66
280	Iodine Activation of Coordinated White Phosphorus: Formation and Transformation of 1,3-Dihydride-2-iodidecyclotetraphosphane. <i>Angewandte Chemie</i> , 2012 , 124, 8756-8759	3.6	15
279	Novel synthetic pathways for bis(acyl)phosphine oxide photoinitiators. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7895-7	16.4	33
278	Iodine activation of coordinated white phosphorus: formation and transformation of 1,3-dihydride-2-iodidecyclotetraphosphane. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8628-31	16.4	29
277	Solution and solid-state dynamics of metal-coordinated white phosphorus. <i>Chemistry - A European Journal</i> , 2012 , 18, 11238-50	4.8	20
276	Improved solvent formulations for efficient CO ₂ absorption and low-temperature desorption. <i>ChemSusChem</i> , 2012 , 5, 1724-31	8.3	47
275	Lower- and upper-rim-modified derivatives of 1,3,5-triaza-7-phosphaadamantane: Coordination chemistry and applications in catalytic reactions in water. <i>Pure and Applied Chemistry</i> , 2012 , 85, 385-396	2.1	19
274	Aqueous Phase Reactions Catalysed by Transition Metal Complexes of 7-Phospha-1,3,5-triazaadamantane (PTA) and Derivatives. <i>Catalysis By Metal Complexes</i> , 2011 , 183-212		6
273	Hydrogen uptake by {H[Mg(HCOO) ₃] ₂ NHMe ₂] ₂ and determination of its H ₂ adsorption sites through Monte Carlo simulations. <i>Langmuir</i> , 2011 , 27, 10124-31	4	19
272	A ¹³ C NMR investigation of CO ₂ absorption and desorption in aqueous 2,2'-iminodiethanol and N-methyl-2,2'-iminodiethanol. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 448-456	4.2	38
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115	Ab Initio and Experimental Studies on the Structure and Relative Stability of the cis-Hydride- η^2 -Dihydrogen Complexes $[\{\text{P}(\text{CH}_2\text{CH}_2\text{PPh}_2)_3\}\text{M}(\text{H})(\eta^2\text{-H}_2)]^+$ (M = Fe, Ru). <i>Inorganic Chemistry</i> , 1997 , 36, 1061-1069	5.1	50
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45	Synthesis and structure of dirhodium compounds featuring an end-on-bridging ditellurium. <i>Inorganic Chemistry</i> , 1989 , 28, 4614-4619	5.1	7
44	A homogeneous iron(II) system capable of selectivity catalyzing the reduction of terminal alkynes to alkenes and buta-1,3-dienes. <i>Organometallics</i> , 1989 , 8, 2080-2082	3.8	68
43	Oxidative addition/reductive elimination of aldehydes and ketones at rhodium. <i>Organometallics</i> , 1989 , 8, 337-345	3.8	37
42	Nucleophilic properties and electrochemistry of five-coordinate rhodium(I) σ -cyanide complexes. Synthesis and characterization of stable cis hydride cyanide complexes of rhodium(III). <i>Organometallics</i> , 1989 , 8, 893-899	3.8	17
41	Homogeneous decarbonylation of ethyl formate at rhodium. Evidence for the formation of a cis-hydride(ethoxycarbonyl) intermediate through C-H bond cleavage. <i>Journal of Organometallic Chemistry</i> , 1988 , 348, C9-C11	2.3	12
40	Activation of C-H bonds in acetylene and terminal alkynes by rhodium(I) species. Crystal structure of cis-(ethynyl)hydride $[(NP_3)Rh(H)(C\equiv CH)]BPh_4 \cdot 0.5C_4H_8O$ ($NP_3 = N(CH_2CH_2PPh_2)_3$). <i>Journal of Organometallic Chemistry</i> , 1988 , 346, C53-C57	2.3	14
39	An exceptionally stable cis-(hydride)(η^2 -dihydrogen) complex of iron. <i>Journal of Organometallic Chemistry</i> , 1988 , 354, C19-C22	2.3	55
38	Reactivity of tetraphosphorus trichalcogenides with rhodium(I)- and iridium(I)-triphosphane fragments. Synthesis and characterization of mixed-metal and unsubstituted-main-group-element cluster compounds. Crystal and molecular structures of $[(triphos)M(P_3X_3)] \cdot C_6H_6$ ($M = Rh, X = S, Se$; $M = Ir, X = S$). <i>Inorganic Chemistry</i> , 1988 , 27, 3725-3729	5.1	11
37	Rhodium complexes with tripodal polyphosphines as excellent precursors to systems for the activation of H-H and C-H bonds. <i>Journal of the American Chemical Society</i> , 1988 , 110, 6411-6423	16.4	66
36	Unprecedented transformation of a vinylidene ligand. Synthesis and ESR characterization of a paramagnetic σ -acetylide complex of rhodium(II). <i>Organometallics</i> , 1988 , 7, 1660-1661	3.8	16
35	Redox-induced reversible migration of hydrogen from metal to alkene. <i>Organometallics</i> , 1988 , 7, 2575-2577	3.8	17
34	A stable η^2 -dihydrogen complex of cobalt. Role of the hydrogen-hydrogen interaction in hydrogen transfer from metal to alkene. <i>Journal of the American Chemical Society</i> , 1988 , 110, 8725-8726	16.4	64
33	Rhodium complexes with the tripodal triphosphine $MeC(CH_2PPh_2)_3$ as highly reactive systems for hydrogenation and hydroformylation of alkenes. <i>Journal of the Chemical Society Chemical Communications</i> , 1988 , 299		25

32	Evidence for a molecular hydrogen complex of rhodium. Some factors affecting cis-dihydride .tautm. .eta.2-dihydrogen exchange. <i>Journal of the American Chemical Society</i> , 1987 , 109, 5548-5549	16.4	52
31	Intramolecular, reversible C≡N oxidative addition/reductive elimination at rhodium. Reaction of the intermediate with different types of C≡N bonds and dihydrogen. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 971-973		3
30	Oxidative addition/reductive elimination of aldehydes and ketones at rhodium. Synthesis and characterization of cis-hydrido acyl complexes of rhodium(III). <i>Organometallics</i> , 1987 , 6, 2453-2455	3.8	24
29	Polyhedron report number 19: Naked phosphorus atoms and units in transition-metal compounds. <i>Polyhedron</i> , 1987 , 6, 351-382	2.7	87
28	Hydrochalcogenide and hydride-hydrochalcogenide complexes of rhodium with the tripodal tetraphosphine pp3. <i>Journal of Organometallic Chemistry</i> , 1987 , 333, C53-C56	2.3	4
27	Synthesis and Structure of Compounds Containing Ditellurium Side-on Bonded to Nickel Complex Fragments. <i>Angewandte Chemie International Edition in English</i> , 1987 , 26, 916-917		18
26	Fragmentation of realgar, As ₄ S ₄ , controlled by transition metal/ligand systems. <i>Inorganica Chimica Acta</i> , 1987 , 132, 37-39	2.7	11
25	Alkyl, aryl and cis-dihydride complexes of iridium with the tripodal phosphine P(CH ₂ CH ₂ PPh ₂) ₃ as excellent precursors of active systems for the activation of hydrocarbon C-H bonds. <i>Journal of Organometallic Chemistry</i> , 1987 , 326, C79-C82	2.3	18
24	Fast atom bombardment mass spectrometry of cationic complexes containing homo- and hetero-atomic cyclic units trihapto-bonded to the metal atom. <i>Polyhedron</i> , 1987 , 6, 1491-1495	2.7	5
23	Reactivity of arsenic selenides and telluride: Cobalt complexes containing the seleno- or telluro-diarsirene cyclic units trihapto-bonded to the metal atom-crystal and molecular structures of [(triphos)Co(As ₂ Se)](BF ₄)(C ₂ H ₅ OH) and [(triphos)Co(As ₂ Te)](BF ₄ (C ₆ H ₆) _{0.5} . <i>Polyhedron</i> , 1986 , 5, 945-950	2.7	20
22	Ditellurium as a bridging unit between metal/ligand systems. X-Ray crystal structure of [{MeC(CH ₂ PPh ₂) ₃ Ni(Te ₂)Ni{MeC(CH ₂ PPh ₂) ₃ }] ₂ C ₄ H ₈ O. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 374-375		19
21	Electrophilic attack on unsubstituted phosphorus units in transition metal compounds: synthesis and characterization of the methyltriposphirene unit stabilized by transition metal/ligand fragments. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 1799-1800		34
20	Intra- and intermolecular activation of sp ² carbon-hydrogen bonds at rhodium(I) and iridium(I) metal centers. X-ray structure of the cis .sigma.-cyclooctadienyl hydride [{N(CH ₂ CH ₂ PPh ₂) ₃ IrH(.sigma.-C ₈ H ₁₁)]BPh ₄ . <i>Organometallics</i> , 1986 , 5, 2557-2559	3.8	20
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18	Reaction of cobalt and nickel moieties with the silylphosphane P ₇ (SiMe ₃) ₃ . <i>Journal of Organometallic Chemistry</i> , 1985 , 288, c44-c46	2.3	12
17	Phosphorus-phosphorus bond cleavage in the cage molecule P ₄ S ₃ : synthesis and crystal structure of the trinuclear platinum complex [{Pt(μ-P ₄ S ₃)(PPh ₃) ₃ }] ₃ Cl ₆ H ₆ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1985 , 291-295		26
16	Synthesis and characterization of dinuclear metal complexes with the P ₂ S and As ₂ S heteroatomic inorganic rings as bridging units. Crystal and molecular structure of [(triphos)Rh(As ₂ S)Rh(triphos)](BPh ₄) ₂ . <i>Inorganic Chemistry</i> , 1985 , 24, 2230-2236	5.1	21
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14	Synthesis and structural study of a cobalt complex with the diarsenic-sulfur cyclic unit as a trihapto ligand. <i>Inorganica Chimica Acta</i> , 1984 , 83, 161-165	2.7	25
13	Insertion of the Pt(PPh ₃) ₂ unit into inorganic triatomic rings coordinated to metal-ligand moieties. <i>Journal of Organometallic Chemistry</i> , 1984 , 266, c8-c10	2.3	16
12	Cleavage of tetraarsenic trisulfide by nickel moieties. <i>Journal of Organometallic Chemistry</i> , 1984 , 262, c5-c6	2.3	13
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8	Phosphorus chalcogenides as ligands in d ¹⁰ metal complexes. <i>Inorganic Chemistry</i> , 1983 , 22, 2196-2198	5.1	47
7	Phosphorus and Arsenic Chalcogenides as Reagents Toward Transition Metal-Ligand Systems. <i>Phosphorous and Sulfur and the Related Elements</i> , 1983 , 18, 295-298		5
6	Rhodium(III) and rhodium(I) complexes with tripod tetradentate ligands. <i>Inorganica Chimica Acta</i> , 1983 , 69, 37-43	2.7	7
5	A cobalt complex containing the new trihapto-cyclic diphosphorus-sulphur ligand: synthesis and X-ray crystal structure of [{MeC(CH ₂ PPh ₂) ₃ }CoP ₂ S]BF ₄ ·C ₆ H ₆ . <i>Journal of the Chemical Society Chemical Communications</i> , 1982 , 894-895		10
4	Octahedral nickel(II) complexes with the tripod ligand tris(2-dimethylarsionethyl)amine. <i>Inorganica Chimica Acta</i> , 1981 , 47, 213-216	2.7	0
3	Synthesis and reactivity of novel cationic organonickel(II) complexes. X-ray structure of [bis(2-diphenylphosphinoethyl)phenylphosphinenickel-O-methylsulfinat]tetraphenylborate. <i>Journal of Organometallic Chemistry</i> , 1980 , 192, 437-446	2.3	10
2	Iridium-Catalyzed C≡O Hydrogenation	55-106	
1	Single-Bonded Cubic AsN from High-Pressure and High-Temperature Chemical Reactivity of Arsenic and Nitrogen. <i>Angewandte Chemie</i> , 2021, 14191	3.6	0