

# Andreas Orthaber

## List of Publications by Year in descending order

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110  
papers

2,627  
citations

279798

23  
h-index

223800

46  
g-index

129  
all docs

129  
docs citations

129  
times ranked

3784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Photochemical Hydrogen Production by a Molecular Diiron Catalyst Incorporated into a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 16997-17003.	13.7	501
2	Organophosphorus Compounds in Organic Electronics. <i>Chemistry - A European Journal</i> , 2016, 22, 10718-10735.	3.3	195
3	Accelerating proton-coupled electron transfer of metal hydrides in catalyst model reactions. <i>Nature Chemistry</i> , 2018, 10, 881-887.	13.6	78
4	Mechanochemical Solvent-Free Catalytic C-H Methylation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6660-6666.	13.8	78
5	Ru-Catalysed C-H Arylation of Indoles and Pyrroles with Boronic Acids: Scope and Mechanistic Studies. <i>Chemistry - A European Journal</i> , 2015, 21, 5380-5386.	3.3	77
6	Isomerization and Aggregation of the Solar Cell Dye D149. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26144-26153.	3.1	74
7	Halogen Bonding Helicates Encompassing Iodonium Cations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9012-9016.	13.8	66
8	Simultaneous iridium catalysed oxidation and enzymatic reduction employing orthogonal reagents. <i>Chemical Communications</i> , 2010, 46, 8046.	4.1	65
9	Alkynyl Coinage Metal Clusters and Complexes—Syntheses, Structures, and Strategies. <i>Chemistry - A European Journal</i> , 2018, 24, 7536-7559.	3.3	63
10	Water oxidation catalysed by a mononuclear Co <sup>II</sup> polypyridine complex; possible reaction intermediates and the role of the chloride ligand. <i>Chemical Communications</i> , 2015, 51, 13074-13077.	4.1	62
11	Brønsted Acid-Catalyzed Intramolecular Nucleophilic Substitution of the Hydroxyl Group in Stereogenic Alcohols with Chirality Transfer. <i>Journal of the American Chemical Society</i> , 2015, 137, 4646-4649.	13.7	58
12	Iron Pentapyridyl Complexes as Molecular Water Oxidation Catalysts: Strong Influence of a Chloride Ligand and pH in Altering the Mechanism. <i>ChemSusChem</i> , 2016, 9, 1178-1186.	6.8	57
13	Boryl (Hetero)aryne Precursors as Versatile Arylation Reagents: Synthesis through C-H Activation and Orthogonal Reactivity. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11765-11769.	13.8	51
14	The homologous series of 1,1'-ferrocenylenebis(dihalophosphanes) (C <sub>5</sub> H <sub>4</sub> PX <sub>2</sub> ) <sub>2</sub> Fe (X = F, Cl, Br, I): precursors for the first metallocene bridged bisphosphaalkene. <i>Dalton Transactions</i> , 2006, , 3879-3885.	3.3	47
15	Efficient identification of flavones, flavanones and their glycosides in routine analysis via off-line combination of sensitive NMR and HPLC experiments. <i>Food Chemistry</i> , 2017, 218, 600-609.	8.2	47
16	Coordination and conformational isomers in mononuclear iron complexes with pertinence to the [FeFe] hydrogenase active site. <i>Dalton Transactions</i> , 2014, 43, 4537-4549.	3.3	43
17	Functional small-molecules & polymers containing P-C and As-C bonds as hybrid $\pi$ -conjugated materials. <i>Chemical Communications</i> , 2017, 53, 1120-1123.	4.1	39
18	Impact of Excited-State Antiaromaticity Relief in a Fundamental Benzene Photoreaction Leading to Substituted Bicyclo[3.1.0]hexenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 10942-10954.	13.7	37

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19	Tsuji's Trost Reaction of Non-derivatized Allylic Alcohols. <i>Chemistry - A European Journal</i> , 2018, 24, 3488-3498.	3.3	36
20	Optimized Synthesis of Tetrafluoroterephthalic Acid: A Versatile Linking Ligand for the Construction of New Coordination Polymers and Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2010, 49, 9350-9357.	4.0	31
21	Mechanochemical synthesis of (hetero)aryl Au complexes. <i>Green Chemistry</i> , 2020, 22, 5648-5655.	9.0	31
22	Phosphorus Centers of Different Hybridization in Phosphaalkene-Substituted Phospholes. <i>Chemistry - A European Journal</i> , 2014, 20, 8421-8432.	3.3	28
23	Highly luminescent lanthanide complexes sensitised by tertiary amide-linked carbostyryl antennae. <i>Dalton Transactions</i> , 2018, 47, 10702-10714.	3.3	25
24	Catalytic Activity of <i>trans</i> -Bis(pyridine)gold Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 6439-6446.	13.7	25
25	Synthesis, structure and $\pi$ -delocalization of a phosphaalkenyl based neutral PNP-pincer. <i>Inorganica Chimica Acta</i> , 2011, 374, 211-215.	2.4	24
26	Mechanistic Insights into the Pd-Catalyzed Direct Amination of Allyl Alcohols: Evidence for an Outer-Sphere Mechanism Involving a Palladium Hydride Intermediate. <i>Chemistry - A European Journal</i> , 2014, 20, 1520-1524.	3.3	24
27	Mechanism of the Phospha-Wittig-Horner Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6484-6487.	13.8	23
28	One-Pot Synthesis of Keto Thioethers by Palladium/Gold-Catalyzed Click and Pinacol Reactions. <i>Organic Letters</i> , 2014, 16, 5556-5559.	4.6	21
29	Asymmetric Synthesis of $\beta$ -Substituted $\alpha$ -Methylbutyrolactones <i>via</i> TRIP-Catalyzed Allylation: Mechanistic Studies and Application to the Synthesis of <i>S</i> -Hydroxymatairesinol. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 2499-2505.	4.3	20
30	Synthesis of the first metal-free phosphanylphosphonate and its use in the $\alpha$ -phospha-Wittig-Horner reaction. <i>Dalton Transactions</i> , 2016, 45, 2201-2207.	3.3	20
31	Alternative Synthesis and Structures of <i>C</i> -monoacetylenic Phosphaalkenes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2219-2224.	1.2	19
32	Oxaphospholes and Bisphospholes from Phosphinophosphonates and $\alpha,\beta$ -Unsaturated Ketones. <i>Chemistry - A European Journal</i> , 2013, 19, 13692-13704.	3.3	19
33	Perfluorophenylene-bridged bisphospholes: synthesis and unexpected photophysical properties. <i>Dalton Transactions</i> , 2013, 42, 5314.	3.3	19
34	Eu(III) and Tb(III) Complexes of Octa- and Nonadentate Macrocyclic Ligands Carrying Azide, Alkyne, and Ester Reactive Groups. <i>Inorganic Chemistry</i> , 2020, 59, 106-117.	4.0	19
35	Mechanochemical Solvent-Free Catalytic C-H Methylation. <i>Angewandte Chemie</i> , 2021, 133, 6734-6740.	2.0	19
36	Coordination Behaviour of a Hexadentate 1,1'-Ferrocenylene-Bridged Bisphosphole towards Coinage Metal Centres. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1751-1759.	2.0	18

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37	Tuning the Electronic Properties of Acetylenic Fluorenes by Phosphaalkene Incorporation. <i>Chemistry - A European Journal</i> , 2016, 22, 4247-4255.	3.3	18
38	Heavier pnictogens as treasures for optical electronic and reactivity tuning. <i>Dalton Transactions</i> , 2019, 48, 4460-4466.	3.3	18
39	Bis(diethylamino)(pentafluorophenyl)phosphane - a Push-Pull Phosphane Available for Coordination. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2588-2596.	2.0	17
40	Arynes and Their Precursors from Arylboronic Acids via Catalytic C-H Silylation. <i>Journal of Organic Chemistry</i> , 2019, 84, 5863-5871.	3.2	17
41	Rich Coordination Chemistry of $\pi$ -Acceptor Dibenzoazole Ligands. <i>Inorganic Chemistry</i> , 2017, 56, 4504-4511.	4.0	16
42	Halogen Bonding Helicates Encompassing Iodonium Cations. <i>Angewandte Chemie</i> , 2019, 131, 9110-9114.	2.0	16
43	Oxygenated Cyclohexene Derivatives and Other Constituents from the Roots of <i>Monanthes trichocarpa</i> . <i>Journal of Natural Products</i> , 2020, 83, 210-215.	3.0	16
44	Pedrolane, a Polycyclic Diterpene Scaffold Containing a Bicyclo[2.2.1]heptane System, from <i>Euphorbia pedroi</i> . <i>Organic Letters</i> , 2021, 23, 274-278.	4.6	16
45	Phosphaalkenylidene bridged ferrocenes. <i>Journal of Organometallic Chemistry</i> , 2012, 719, 36-40.	1.8	15
46	Toward Metathesis Reactions on Vinylphosphaalkenes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 152-158.	1.6	15
47	Cooperative Gold Nanoparticle Stabilization by Acetylenic Phosphaalkenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10634-10638.	13.8	15
48	Directly linked hydroporphyrin dimers. <i>Chemical Communications</i> , 2016, 52, 9056-9058.	4.1	15
49	Equilibrium Study of Pd(dba) <sub>2</sub> and P(OPh) <sub>3</sub> in the Pd-Catalyzed Allylation of Aniline by Allyl Alcohol. <i>Organometallics</i> , 2014, 33, 249-253.	2.3	13
50	Turn-on fluorescence sensors based on dynamic intramolecular N <sup>+</sup> B <sup>-</sup> coordination. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1437-1452.	4.5	13
51	Structural and spectroscopic characterization of tetranuclear iron complexes containing a bridge. <i>Journal of Coordination Chemistry</i> , 2012, 65, 2713-2723.	2.2	12
52	Direct, Sequential, and Stereoselective Alkynylation of <i>C,C</i> -Dibromophosphaalkenes. <i>Chemistry - A European Journal</i> , 2016, 22, 10614-10619.	3.3	12
53	A sub 20 nm metal-conjugated molecule junction acting as a nitrogen dioxide sensor. <i>Nanoscale</i> , 2019, 11, 6571-6575.	5.6	12
54	New Class of Molecular Conductance Switches Based on the [1,3]-Silyl Migration from Silanes to Silenes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10909-10918.	3.1	11

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55	Mechanism of the Phospha-Wittig-Horner Reaction. <i>Angewandte Chemie</i> , 2013, 125, 6612-6615.	2.0	11
56	Tuning the Optical Properties of 1,1-Biphospholes by Chemical Alterations of the P-P Bridge. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1760-1766.	2.0	11
57	Self-Assembly of Square-Planar Halide Complexes of Trimethylphosphine-Stabilized Diphenyl-Arsenium, -Stibonium, and -Bismuthonium Hexafluorophosphates. <i>Australian Journal of Chemistry</i> , 2016, 69, 524.	0.9	11
58	Studies on gold(I) and gold(III) alcohol functionalised NHC complexes. <i>Dalton Transactions</i> , 2021, 50, 5128-5138.	3.3	11
59	Carbene chemistry of arsenic, antimony, and bismuth: origin, evolution and future prospects. <i>Dalton Transactions</i> , 2022, 51, 8540-8556.	3.3	11
60	2,3,5,6-Tetrafluorophenylenebis(phosphanes) - Preparation and Structure of an Electron-Poor P-R-F-P Linker. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 34-37.	2.0	10
61	A fluoroaryl substituent with spectator function: Reactivity and structures of cyclic and acyclic HF4C6-substituted phosphanes. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 974-980.	1.8	10
62	Computational and experimental approaches to the molecular structure of the HCl adduct of Me3PO. <i>Comptes Rendus Chimie</i> , 2010, 13, 923-928.	0.5	10
63	P-N-Chelated Gold(III) Complexes: Structure and Reactivity. <i>Inorganic Chemistry</i> , 2021, 60, 2847-2855.	4.0	10
64	The Relative Stabilities of 1,3-Diphospha-2-silaallene and Some of Its Isomers. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4570-4576.	2.0	9
65	Synthesis and Characterization of Cyclopentadithiophene Heterofulvenes: Design Tools for Light-Activated Processes. <i>Chemistry - A European Journal</i> , 2017, 23, 5673-5677.	3.3	9
66	Solvent and Counter-Ion Induced Coordination Environment Changes Towards AgI Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3740-3744.	2.0	9
67	Effect of Arsenic Coordination State on the Structure, Aromaticity, and Optical Properties of Dithieno[3,2-b:2',3'-d]arsoles. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1539-1543.	2.0	9
68	Designing sterically demanding thiolate coated AuNPs for electrical characterization of BPDT in a NP-molecule-nanoelectrode platform. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 133-139.	3.4	8
69	Mild and Efficient Synthesis of Diverse Organo-Au I L Complexes in Green Solvents. <i>ChemSusChem</i> , 2020, 13, 2032-2037.	6.8	8
70	P-C bond formation via P-H addition of a fluoroaryl phosphinic acid to ketones. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1025-1031.	1.7	7
71	Oxygen versus sulfur: Structure and reactivity of substituted arsine oxides and arsine sulfides. <i>Journal of Computational Chemistry</i> , 2012, 33, 112-117.	3.3	7
72	Synthesis of 2,6-Dimesitylphenyl-C,C-Dibromophosphaalkene. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015, 190, 816-820.	1.6	7

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73	The Heavier Analogues of Alkenes: A Theoretical Comparison of Unsaturated Group 15/14 Systems. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 709-717.	2.0	7
74	Catalytic Asymmetric $\beta$ -Oxygen Elimination**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	7
75	Synthesis and Characterization of Ferrocenyl Chlorins, 1,1- $\eta^2$ -Ferrocene-Linked Chlorin Dimers, and their BODIPY Analogues. <i>Inorganic Chemistry</i> , 2017, 56, 3044-3054.	4.0	6
76	Furan- and Thiophene-Based Auxochromes Red-shift Chlorin Absorptions and Enable Oxidative Chlorin Polymerizations. <i>Chemistry - A European Journal</i> , 2017, 23, 4089-4095.	3.3	6
77	Core and double bond functionalisation of cyclopentadithiophene-phosphaalkenes. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4052-4061.	6.0	6
78	Towards Heteronuclear Triple Bonds Involving Silicon or Germanium. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 1361-1363.	1.6	5
79	Hydrogen Bonded Phenol-Quinolines with Highly Controlled Proton-Transfer Coordinate. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3365-3372.	2.4	5
80	Isolation and Characterization of a Monoprotonated Hydroporphyrin. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 7051-7056.	2.4	5
81	Expansion of the scope of alkylboryl-bridged N- $\beta$ -ladder boranes: new substituents and alternative substrates. <i>Dalton Transactions</i> , 2019, 48, 10298-10312.	3.3	5
82	Studies towards Pyridine-Based N,N,O-Gold(III) Complexes: Synthesis, Characterization and Application. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 7062-7068.	2.4	5
83	Tuning the Homo-Lumo Gap in $\beta$ -Bridged Bis(Phosphaalkenes). <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 128-131.	1.6	4
84	The Self-Assembly of $[Ag_3(C_6H_5)_2(C_6H_5)_2]_2$ Building Units into a Template-Free Cuboctahedron and Anion-Encapsulating Silver Cages. <i>Inorganic Chemistry</i> , 2019, 58, 16236-16240.	4.0	4
85	Facile synthesis of silver alkynide cluster and coordination polymers using picolinic acid as a co-ligand. <i>Dalton Transactions</i> , 2019, 48, 16518-16524.	3.3	4
86	Preparation, photo- and electrochemical studies of a homoleptic imine-phosphaalkene Cu(I) complex. <i>Inorganica Chimica Acta</i> , 2020, 513, 119958.	2.4	4
87	Golden Age of Fluorenylidene Phosphaalkenes—Synthesis, Structures, and Optical Properties of Heteroaromatic Derivatives and Their Gold Complexes. <i>Journal of Organic Chemistry</i> , 2020, 85, 14619-14626.	3.2	4
88	Serendipitous and Targeted Synthesis of High Nuclearity Clusters—Carbonate and Oxalate Encapsulating Silver Alkynides. <i>Crystal Growth and Design</i> , 2020, 20, 4232-4237.	3.0	4
89	Antibacterial and cytotoxic prenylated dihydrochalcones from <i>Eriosema montanum</i> . <i>F3-toterap3</i> , 2021, 149, 104809.	2.2	4
90	Reactivity studies of an imine-functionalised phosphaalkene; unusual electrostatic and supramolecular stabilisation of a $\beta$ -3-phosphorus motif via hydrogen bonding. <i>Dalton Transactions</i> , 2018, 47, 10404-10409.	3.3	3

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91	Gold(I) Complexes of Fulvenyl-Functionalized Arylisocyanides. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 42-50.	2.0	3
92	Nanomolecular electronic devices based on AuNP molecule nanoelectrodes using molecular place-exchange process. <i>Nanotechnology</i> , 2020, 31, 225207.	2.6	3
93	Z-selective alkene formation from reductive aldehyde homo-couplings. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	3
94	Asymmetric chain-growth synthesis of polyisocyanide with chiral nickel precatalysts. <i>Journal of Polymer Science</i> , 2020, 58, 2221-2233.	3.8	2
95	C-glycosylated pyrroles and their application in dipyrromethane and porphyrin synthesis. <i>Journal of Porphyrins and Phthalocyanines</i> , 2021, 25, 741-755.	0.8	2
96	Crystal structure of acetonitrile [1-(1-methyl-4-(1-methylethyl)benzene)][1-(pyrimidin-2-yl)-3H-indol-1-ium-2-yl] <sup>2+</sup> <sub>2</sub> N <sup>+</sup> , bis(hexafluoroantimonate). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, 1190-1192.	0.5	2
97	Preparation of Structurally and Electronically Diverse N-B-Ladder Boranes by [2 + 2 + 2] Cycloaddition. <i>Journal of Organic Chemistry</i> , 2021, 86, 14767-14776.	3.2	2
98	Analysis of molecular ligand functionalization process in nano-molecular electronic devices containing densely packed nano-particle functionalization shells. <i>Nanotechnology</i> , 2022, 33, 255706.	2.6	2
99	Tuning the photophysical properties of luminescent lanthanide complexes through regioselective antenna fluorination. <i>Chemical Communications</i> , 2022, 58, 6853-6856.	4.1	2
100	Organophosphorus and Related Group 15 Polymers. , 2021, , .		1
101	Catalytic Asymmetric Oxygen Elimination**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
102	Neue Bausteine für die organische Elektronik. <i>Nachrichten Aus Der Chemie</i> , 2016, 64, 855-858.	0.0	0
103	Frontispiece: Alkynyl Coinage Metal Clusters and Complexes-Syntheses, Structures, and Strategies. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
104	Frontispiz: Halogen Bonding Helicates Encompassing Iodonium Cations. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0
105	Frontispiece: Halogen Bonding Helicates Encompassing Iodonium Cations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	0
106	Rearrangement and redistribution reaction of Ph <sub>2</sub> PCH <sub>2</sub> TMS with PhAsCl <sub>2</sub> or AsCl <sub>3</sub> . <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 967-971.	1.6	0
107	Phosphorus Special Issue in Honor of Koop Lammertsma and Edgar Niecke. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1437-1439.	2.0	0
108	Effect of Arsenic Coordination State on the Structure, Aromaticity, and Optical Properties of Dithieno[3,2-b:6,5-d']arsoles. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1706-1706.	2.0	0

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109	Electronic Properties and Solid-State Packing of Isocyanofulvenes and Their Gold(I) Chloride Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 17171-17183.	4.0	0
110	Analysis of Anion Binding Effects on the Sensitized Luminescence of Macrocyclic Europium(III) Complexes. <i>Analysis &amp; Sensing</i> , 0, , .	2.0	0