

Burgert Blom

List of Publications by Year in descending order

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49
papers

2,151
citations

257357

24
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all docs

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docs citations

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times ranked

1465
citing authors

#	ARTICLE	IF	CITATIONS
1	New Vistas in N-Heterocyclic Silylene (NHSi) Transition-Metal Coordination Chemistry: Syntheses, Structures and Reactivity towards Activation of Small Molecules. <i>Chemistry - A European Journal</i> , 2013, 19, 40-62.	1.7	263
2	N-heterocyclic silylene complexes in catalysis: new frontiers in an emerging field. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 134-148.	3.0	191
3	Highly Electron-Rich Pincer-Type Iron Complexes Bearing Innocent Bis(metallylene)pyridine Ligands: Syntheses, Structures, and Catalytic Activity. <i>Organometallics</i> , 2014, 33, 6885-6897.	1.1	159
4	Stable N-Heterocyclic Carbene Adducts of Arylchlorosilylenes and Their Germanium Homologues. <i>Chemistry - A European Journal</i> , 2010, 16, 2866-2872.	1.7	143
5	Electron-Rich N-Heterocyclic Silylene (NHSi)-Iron Complexes: Synthesis, Structures, and Catalytic Ability of an Isolable Hydridosilylene-Iron Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 6703-6713.	6.6	131
6	A Fragile Zwitterionic Phosphasilene as a Transfer Agent of the Elusive Parent Phosphinidene (:PH). <i>Journal of the American Chemical Society</i> , 2013, 135, 11795-11798.	6.6	120
7	Bis-N-Heterocyclic Carbene (NHC) Stabilized η^6 -Arene Iron(0) Complexes: Synthesis, Structure, Reactivity, and Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 18108-18120.	6.6	98
8	Synthesis of Mixed Silylene-Carbene Chelate Ligands from N-Heterocyclic Silylcarbenes Mediated by Nickel. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2214-2218.	7.2	78
9	A Donor-Stabilized Zwitterionic σ -Half-Parent-Phosphasilene and Its Unusual Reactivity towards Small Molecules. <i>Chemistry - A European Journal</i> , 2014, 20, 1947-1956.	1.7	65
10	An Elusive Hydridoaluminum(I) Complex for Facile C-H and C-O Bond Activation of Ethers and Access to Its Isolable Hydridogallium(I) Analogue: Syntheses, Structures, and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2014, 136, 9732-9742.	6.6	64
11	N-Heterocyclic Silylene (NHSi) Rhodium and Iridium Complexes: Synthesis, Structure, Reactivity, and Catalytic Ability. <i>Australian Journal of Chemistry</i> , 2013, 66, 1163.	0.5	55
12	Mechanistic studies of CO ₂ reduction to methanol mediated by an N-heterocyclic germylene hydride. <i>Dalton Transactions</i> , 2014, 43, 6006-6011.	1.6	49
13	Recent Advances in Silylene Chemistry: Small Molecule Activation En-Route Towards Metal-Free Catalysis. <i>Structure and Bonding</i> , 2013, , 85-123.	1.0	47
14	Facile Access to Mono- and Dinuclear Heteroleptic N-Heterocyclic Silylene Copper Complexes. <i>Organometallics</i> , 2014, 33, 363-369.	1.1	45
15	Facile Access to Silicon-Functionalized Bis-Silylene Titanium(II) Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 13355-13360.	1.7	44
16	From Unsymmetrically Substituted Benzamidinato and Guanidinato Dichlorohydridosilanes to Novel Hydrido N-Heterocyclic Silylene Iron Complexes. <i>Organometallics</i> , 2014, 33, 5272-5282.	1.1	35
17	Biomimetic [2Fe μ -S] Clusters with Extensively Delocalized Mixed-Valence Iron Centers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12506-12510.	7.2	35
18	From an Isolable Acyclic Phosphinosilylene Adduct to Donor-Stabilized σ -E Compounds (E=O, S, Se). <i>Chemistry - A European Journal</i> , 2015, 21, 18930-18933.	1.7	32

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19	Synthesis, structure and anti-cancer activity of osmium complexes bearing η^6 -bound arene substituents and phosphane Co-Ligands: A review. <i>European Journal of Medicinal Chemistry</i> , 2020, 201, 112483.	2.6	30
20	A Persistent 1,2-Dihydrophoshasilene Adduct. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15060-15063.	7.2	29
21	Improving the Catalytic Activity in the Rhodium-Mediated Hydroformylation of Styrene by a Bis(N-heterocyclic silylene) Ligand. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1284-1291.	1.0	29
22	Open-Shell Lanthanide(II+) or -(III+) Complexes Bearing η^5 -Silyl and Silylene Ligands: Synthesis, Structure, and Bonding Analysis. <i>Inorganic Chemistry</i> , 2015, 54, 3306-3315.	1.9	26
23	Computational investigation of ethene trimerisation catalysed by cyclopentadienyl chromium complexes. <i>Inorganica Chimica Acta</i> , 2007, 360, 2890-2896.	1.2	24
24	Alkaline-Earth-Metal-Induced Liberation of Rare Allotropes of Elemental Silicon and Germanium from N-Heterocyclic Metallylenes. <i>Inorganic Chemistry</i> , 2015, 54, 8840-8848.	1.9	24
25	Unprecedented silicon(η^5)-calcium complexes with N-heterocyclic silylenes. <i>Dalton Transactions</i> , 2015, 44, 639-644.	1.6	23
26	Elucidating the Effect of the Nucleophilicity of the Silyl Group in the Reduction of CO_2 to CO Mediated by Silyl-Copper(I) Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 9400-9408.	1.7	18
27	A review on 1,1-bis(diphenylphosphino)methane bridged homo- and heterobimetallic complexes for anticancer applications: Synthesis, structure, and cytotoxicity. <i>European Journal of Medicinal Chemistry</i> , 2020, 204, 112613.	2.6	18
28	Synthesis of Disentangled Ultra-High Molecular Weight Polyethylene using Vanadium(V)-Based Catalysts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 993-998.	0.6	17
29	An Amplified Ylidic η^5 -Parent-Iminosilane LSi^+NH . <i>Journal of the American Chemical Society</i> , 2014, 136, 14207-14214.	6.6	16
30	From elusive thio- and selenosilanoic acids to copper(i) complexes with intermolecular $\text{Si}^{\delta-} \cdots \text{Cu}^{\delta+} \cdots \text{O}^{\delta-} \cdots \text{Si}$ coordination modes (E = S, Se). <i>Chemical Communications</i> , 2013, 49, 5595.	2.2	15
31	Synthesis and Catalytic Application of Knorr-Type Iron Complexes with a Novel Asymmetric Cyclopentadienone Ligand Design. <i>Catalysts</i> , 2019, 9, 790.	1.6	15
32	Heterobimetallic $\text{Ru}(\eta^5\text{-dppm})\text{Fe}$ and homobimetallic $\text{Ru}(\eta^5\text{-dppm})\text{Ru}$ complexes as potential anti-cancer agents. <i>Journal of Organometallic Chemistry</i> , 2019, 901, 120934.	0.8	15
33	Developments in vanadium-catalysed polymerisation reactions: A review. <i>Inorganica Chimica Acta</i> , 2021, 515, 120047.	1.2	14
34	New palladium η^2 -diimine complexes containing dendritic wedges for ethene oligomerisation. <i>Inorganica Chimica Acta</i> , 2005, 358, 3491-3496.	1.2	13
35	Synthesis, characterisation and cytotoxicity studies of ruthenium arene complexes bearing trichlorogermyl ligands. <i>Inorganica Chimica Acta</i> , 2019, 484, 513-520.	1.2	13
36	Transition Metal Complexes of a η^5 -Parent-Phoshasilene Adduct Representing Silylene-Phosphinidene-Metal Complexes. <i>Organometallics</i> , 2015, 34, 5703-5708.	1.1	12

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37	Synthesis and In Vitro (Anticancer) Evaluation of $\hat{\nu}$ -6-Arene Ruthenium Complexes Bearing Stannyl Ligands. <i>Inorganics</i> , 2017, 5, 44.	1.2	12
38	Structural modification of phenoxyimine titanium complexes and activation studies with alkylaluminum compounds. <i>ChemCatChem</i> , 2020, 12, 5209-5220.	1.8	9
39	Substitution reactions of tetrahydrofuran in $[\text{Cr}(\text{thf})_3\text{Cl}_3]$ with mono and bidentate N-donor ligands: X-ray crystal structures of $[\text{Cr}(\text{bipy})(\text{OH}_2)\text{Cl}_3]$ and $[\text{HpyNH}_2][\text{Cr}(\text{bipy})\text{Cl}_4]$. <i>Inorganica Chimica Acta</i> , 2008, 361, 3042-3052.	1.2	8
40	Modulation of the solubility properties of arene ruthenium complexes bearing stannyl ligands as potential anti-cancer agents. <i>Journal of Organometallic Chemistry</i> , 2019, 891, 12-19.	0.8	8
41	Ionic Ruthenium and Iron Based Complexes Bearing Silver Containing Anions as a Potent New Class of Anticancer Agents. <i>Journal of Organometallic Chemistry</i> , 2021, 934, 121659.	0.8	8
42	Facile synthesis of heterobimetallic $[\text{Fe}(\mu\text{-diphosphine})\text{Ru}(\text{I})]$ and homobimetallic $[\text{Fe}(\mu\text{-diphosphine})\text{Fe}(\text{I})]$ complexes and their in vitro cytotoxic activity on cisplatin-resistant cancer cells. <i>Inorganica Chimica Acta</i> , 2020, 510, 119731.	1.2	7
43	Immobilization of $[\text{VCl}_3(\text{N-2,6-Me}_2\text{C}_6\text{H}_3)_3]$ Complex on Silica Supports: Synthesis and Catalytic Testing for Ethylene Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12710-12718.	1.8	7
44	Facile entry to germanate and stannate complexes $[(\hat{\nu}\text{-6-arene})\text{RuCl}(\hat{\nu}\text{-2-dppm})]^+[\text{ECl}_3]^-$ ($\hat{\nu}\text{E} = \text{Ge, Sn}$) as potent anti-cancer agents. <i>Journal of Organometallic Chemistry</i> , 2020, 916, 121214.	0.8	7
45	Homo and heterobimetallic palladium and platinum complexes bearing $\hat{\nu}\text{-4}$ -diphosphane bridges involved in biological studies. <i>European Journal of Medicinal Chemistry</i> , 2021, 223, 113651.	2.6	6
46	Residual Energy Harvesting from Light Transients Using Hematite as an Intrinsic Photocapacitor in a Symmetrical Cell. <i>ACS Applied Energy Materials</i> , 2018, 1, 38-42.	2.5	5
47	Osmium Arene Germyl, Stannyl, Germanate, and Stannate Complexes as Anticancer Agents. <i>ACS Omega</i> , 2021, 6, 19252-19268.	1.6	5
48	Synthesis, Reactivity, and Electronic Structure of a Bioinspired Heterobimetallic $[\text{Ni}(\hat{\nu}\text{-4-S}_2\text{Fe})]$ Complex with Disulfur Monoradical character. <i>Organometallics</i> , 2014, 33, 3154-3162.	1.1	3
49	25th Anniversary of Molecules – Recent Advances in Inorganic Chemistry. <i>Molecules</i> , 2021, 26, 2589.	1.7	0