

JÃ¼rgen Heck

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/702661/publications.pdf>

Version: 2024-02-01

75
papers

1,340
citations

394421

19
h-index

395702

33
g-index

81
all docs

81
docs citations

81
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Mono- and dinuclear sesquifulvalene complexes, organometallic materials with large nonlinear optical properties. <i>Coordination Chemistry Reviews</i> , 1999, 190-192, 1217-1254.	18.8	155
2	Bimetallic Sesquifulvalene Complexes – Compounds with Unusually Large Hyperpolarizability χ^2 . <i>Chemistry - A European Journal</i> , 1996, 2, 98-103.	3.3	100
3	(1-Ferrocenyl- η^6 -borabenzene)(η^5 -cyclopentadienyl)cobalt(1+): A New Heterobimetallic Basic NLO Chromophore. <i>Inorganic Chemistry</i> , 1996, 35, 7863-7866.	4.0	63
4	Azulenyl and guaiazulenyl cations as novel accepting moieties in extended sesquifulvalene type D π -A NLO chromophores. <i>Dalton Transactions RSC</i> , 2001, , 29-36.	2.3	62
5	Synthesis and Nonlinear Optical Properties of New Heptapentaenylidene Complexes: A Study on the Second Harmonic Generation Efficiencies of Amino-Substituted Group 6 Cumulenylidenes. <i>Organometallics</i> , 1998, 17, 1511-1516.	2.3	57
6	Second Harmonic Generation and Two-Photon Fluorescence as Nonlinear Optical Properties of Dipolar Mononuclear Sesquifulvalene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 631-646.	2.0	54
7	Intermetallic Communication through Carbon Wires in Heterobinuclear Cationic Allenylidene Complexes of Chromium. <i>Organometallics</i> , 2006, 25, 5774-5787.	2.3	41
8	Diaminohexopyranosides as Ligands in Half-Sandwich Ruthenium(II), Rhodium(III), and Iridium(III) Complexes. <i>Organometallics</i> , 2015, 34, 1507-1521.	2.3	35
9	Vinyllogous Mono- and Bimetallic Cationic Sesquifulvalene and Monohydro Sesquifulvalene Complexes for Second Harmonic Generation. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 936-946.	2.0	29
10	Structure-Property Dependence of the First Hyperpolarizabilities of Organometallic Merocyanines Based on the η^5 -Vinylcarbynediiron Acceptor and Ferrocene Donor. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 2365-2375.	2.0	26
11	Linear and Nonlinear Optical Properties of Diiron η^5 -Vinylcarbyne Acceptor and Stilbenyl Donor Based Chromophores. <i>Organometallics</i> , 2000, 19, 3410-3419.	2.3	25
12	Synthesis and Properties of a Novel Series of Organometallic Merocyanines Combining the Potent Electron-Donating [(CpFeCO) $_2$ (η^5 -CO)(η^5 -C=CH $^+$)] Fragment with Tropylium-Type Acceptors. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1677-1686.	2.0	23
13	Kooperative Wirkung in π -Ligand-verbrückten Zweikernkomplexen, IX. Einfluß der Cp * -X $_i$ -Cp * -Brücke in CpM(CO) $_3$ -Zweikernkomplexen (M $\eta^3/4$ Mo, W) auf die Reaktion mit Alkinen $>C\equiv C<$. <i>Chemische Berichte</i> , 1990, 123, 1767-1778.	0.2	22
14	Stacked Nickelocenes: Synthesis, Structural Characterization, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2010, 49, 1667-1673.	4.0	22
15	Organometallic Supramolecular Chemistry with Monosaccharides: Triethylammonium η^5 -Chloro-bis{chloro(η^5 -cyclopentadienyl)(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (4,6-O-benzyl) 3791-3797.	3.3	21
16	First Hyperpolarizabilities of Manganese(I)-Chromium(0) Sesquifulvalene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 1161-1169.	2.0	21
17	Donor-Acceptor Interaction in Cationic Archetype Mono- and Dinuclear Sesquifulvalene Complexes [(η^5 -C $_5$ H $_5$)Fe(μ -(η^5 -C $_5$ H $_4$)(η^7 -C $_7$ H $_6$))M $_2$] n (n = 1, 2). <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 239-248.	2.0	20
18	Addition of Ynamines to the Tungsten η^1 -Vinylidene Complexes (η^5 -C $_5$ H $_5$)(NO)(CO)WCC(H)R. <i>Organometallics</i> , 2004, 23, 4902-4909.	2.3	19

#	ARTICLE	IF	CITATIONS
19	Cellulose-Based Polymers with Long-Chain Pendant Ferrocene Derivatives as Organometallic Chromophores. <i>Organometallics</i> , 2004, 23, 3853-3864.	2.3	19
20	Three-Branched Dendritic Dipolar Nonlinear Optical Chromophores, More than Three Times a Single-Strand Chromophore?. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14751-14761.	2.6	19
21	Synthesis and ESR Characterization of the Triplet Species $\eta^5\text{-}(\eta^6\text{-}1,6\text{-biphenyl})\text{-bis}[(\eta^6\text{-benzene})\text{vanadium}]$. <i>Angewandte Chemie International Edition in English</i> , 1981, 20, 267-269.	4.4	18
22	Mono($\eta^5\text{-cyclopentadienyl}$)metal(II) Complexes with Thienyl Acetylide Chromophores: Synthesis, Electrochemical Studies, and First Hyperpolarizabilities. <i>Organometallics</i> , 2014, 33, 4655-4671.	2.3	18
23	Trigonal-Pyramidal Tetra-Sandwich Complexes as 3D NLOphores. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1999-2006.	2.0	17
24	Synfacially Structured $[(\text{CpRu})_2\eta^5\text{-cot}]^+$ What a Difference the Coordination Side Makes!. <i>Chemistry - A European Journal</i> , 1999, 5, 659-668.	3.3	16
25	Kooperative Wirkung in $\eta^5\text{-Ligand}\eta^5\text{-Zweikernkomplexen}$, XIII. Unerwartet schwache $\eta^5\text{-Ligand}\eta^5\text{-Wechselwirkungen}$ in synfacialen heterodinuklearen $\eta^5\text{-Cyclooctatetraenkomplexen}$ vom Typ $\{(\text{CpCr})[(\text{CO})_3\text{M}]^+\eta^5\text{-Cot}(\text{M}=\text{Fe, Cr, W})\}$. <i>Chemische Berichte</i> , 1993, 126, 553-563.	0.2	15
26	Electronic Coupling through Intramolecular $\eta^5\text{-}\eta^5$ Interactions in Biscobaltocenes: A Structural, Spectroscopic, and Magnetic Study. <i>Chemistry - A European Journal</i> , 2011, 17, 4166-4176.	3.3	15
27	Sweet organometallics. <i>Reviews in Inorganic Chemistry</i> , 2011, 31, .	4.1	14
28	Controlling Through $\eta^5\text{-Space}$ and Through $\eta^5\text{-Bond Exchange Pathways}$ in Bis $\eta^5\text{-Cobaltocenes}$ for Molecular Spintronics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2407-2413.	13.8	14
29	Synthesis and Molecular Structures of Monosubstituted Pentamethylcobaltocenium Cations. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4115-4122.	2.0	13
30	Synthesis and long wavelength hyper-Rayleigh scattering measurements of extended $\eta^5\text{-vinylidene}$ di-iron donor based organometallic merocyanines. <i>Journal of Organometallic Chemistry</i> , 2001, 625, 32-39.	1.8	12
31	Sugar ligands in organotitanium complexes. <i>Chemical Communications</i> , 2005, , 5653.	4.1	12
32	Polar Cofacially Fixed Sandwich Complexes: Do They Demonstrate Second Harmonic Generation (SHG)?. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 857-867.	2.0	12
33	Stille Cross-Coupling Reaction with Cationic $[(\eta^5\text{-Cp})(\eta^6\text{-C}_6\text{H}_6)\text{Ru}]^+$ Complexes as Key for Ethynyl-Bridged Homo- and Heteronuclear Sandwich Compounds. <i>Organometallics</i> , 2015, 34, 1692-1700.	2.3	12
34	Interconnected Cobaltocene Complexes on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26777-26784.	3.1	12
35	Cooperative effects in $\eta^5\text{-ligand bridged dinuclear complexes XXII}$. New dinuclear bis(cyclopentadienediyl)ketone complexes containing molybdenum, tungsten, cobalt and iron. <i>Journal of Organometallic Chemistry</i> , 1999, 584, 329-337.	1.8	11
36	Aldol condensation reactions of $[\text{Co}(\eta^5\text{-C}_4\text{Ph}_4)(\eta^5\text{-C}_5\text{H}_4\text{C(O)CH}_3)]$. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1183-1196.	1.8	11

#	ARTICLE	IF	CITATIONS
37	Dipolar Sesquifulvalene Compounds with (Tetraaryl- η^4 -cyclobutadiene)(η^5 -) Tj ETQq1 1 0,784314 rgBT /Over	2.3	14
38	Cooperative Effects in π -Ligand Bridged Dinuclear Complexes. XII [1]. Heterodinuclear Electron Poor π -Cyclooctatetraene Complexes with CrFe-and CrCo-Combinations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 611, 35-42.	1.2	10
39	ZrIV- und TaV-Komplexe mit methanoverbrückten Bis(aryloxy)-Liganden. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2000, 626, 1814-1821.	1.2	9
40	Diamino Monosaccharide Ligands in Group 6 Carbonyl Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2395-2399.	1.2	9
41	Ferrocene-Based Electro-Optical Materials. , 0, , 319-392.		8
42	Photoswitching Behavior of a Cyclohexene-Bridged versus a Cyclopentene-Bridged Dithienylethene System. ChemPhysChem, 2015, 16, 1491-1501.	2.1	8
43	Molecular Gold Wire from Mixed-valent Au ^{III} Complexes. Chemistry - A European Journal, 2016, 22, 6787-6792.	3.3	8
44	Iterative Nucleophilic and Electrophilic Additions to Coordinated Cyclooctatetraene: An Efficient Route to cis-5,7-Disubstituted 1,3-Cyclooctadienes. Angewandte Chemie - International Edition, 1998, 37, 520-522.	13.8	7
45	(η^4 -Tetraaryl-cyclobutadiene)(η^5 -formylcyclopentadienyl)cobalt(I) complexes: Facilities to finetune the electron-donating capability in dipolar organometallics. Journal of Organometallic Chemistry, 2007, 692, 2216-2226.	1.8	7
46	Cooperative effects in π -ligand bridged dinuclear complexes. Journal of Organometallic Chemistry, 1994, 475, 233-240.	1.8	6
47	Intermetallic σ and π Communication in Heterodinuclear η^4 -Cyclooctatetraene Complexes. Chemistry - A European Journal, 1997, 3, 1151-1159.	3.3	6
48	Electronic Structure of the Electron-Poor Dinuclear Organometallic Compounds [(CpM)(CpM ⁻)] η^4 -Cot (M, M ⁻ = V, Cr, Fe, Co). Inorganic Chemistry, 1999, 38, 77-83.	4.0	6
49	Regio- and Stereoselective Functionalization of cyclo-C8 Compounds by Iterative Nucleophilic and Electrophilic Addition to Coordinated Cyclooctatetraene. European Journal of Inorganic Chemistry, 2000, 2000, 1941-1952.	2.0	6
50	[(η^6 -Cyclooctatetraene){(η^5 -neomenthylcyclopentadienyl)}ruthenium(II)] Hexafluorophosphate: Synthesis and Characterization of a Chiral Mixed Sandwich Complex. European Journal of Inorganic Chemistry, 2003, 2003, 313-317.	2.0	6
51	2,2-Bipyridine-Based Dendritic Structured Compounds for Second Harmonic Generation. Chemistry - A European Journal, 2014, 20, 14351-14361.	3.3	6
52	Limits of Molecular Dithienylethene Switches Caused by Ferrocenyl Substitution. ChemPhysChem, 2016, 17, 1881-1894.	2.1	6
53	Nucleophilic Substitution in the Nitrocobaltocenium Ion. European Journal of Inorganic Chemistry, 2017, 2017, 1314-1319.	2.0	6
54	Synthesis and Crystal Structure of a Dinuclear Titanium(IV) Complex containing an Allopyranosidato Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 43-45.	1.2	5

#	ARTICLE	IF	CITATIONS
55	Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. <i>ChemPhysChem</i> , 2017, 18, 596-609.	2.1	5
56	Synthesis and characterization of dinuclear monohydro sesquifulvalene complexes with potential NLO properties. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 455-462.	1.8	4
57	Metal-Mediated Transformations of Cyclooctatetraene to Novel Methylene-Bridged, Bicyclic Compounds. <i>Organometallics</i> , 2007, 26, 5386-5394.	2.3	4
58	Synthesis, structure and NLO properties of a 1,3,5-substituted tricationic cobaltocenium benzene complex. <i>Journal of Organometallic Chemistry</i> , 2016, 820, 125-129.	1.8	4
59	Synthesis, characterization and magnetic properties of head-to-head stacked vanadocenes. <i>Dalton Transactions</i> , 2017, 46, 15494-15502.	3.3	4
60	Structural Consequences in λ^2 - and λ^2 -Glucopyranosidato Complexes of Cp^*TiCl_3 . <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 5295-5298.	2.0	3
61	Catalytic sugar-assisted transfer hydrogenation with Ru(II), Rh(III) and Ir(III) halfsandwich complexes. <i>Journal of Molecular Catalysis A</i> , 2015, 408, 107-122.	4.8	3
62	One-Step Preparation and Crystallization of Almost Insoluble Palladium(II) and Platinum(II/IV) Complexes from a Biphasic Solvent System. <i>Crystal Growth and Design</i> , 2015, 15, 5280-5287.	3.0	3
63	Synthese und Struktur von Tetrachloro[4-tert-butyl-2(diphenylphosphanyl- \hat{P} -methyl)phenolato- \hat{O}]tantal(V), ein neuartiger TaV-Komplex mit einem chelatisierenden Aryloxyphosphanliganden. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1999, 625, 2077-2080.	1.2	2
64	Extended Threefold-Symmetric Second-Harmonic-Generation Chromophores Based on 1,3,5-Trisubstituted Benzene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, .	2.0	2
65	Catalytic Diamino-Sugar-Assisted Enantioselective Hydrogenation. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2858-2864.	2.0	2
66	Controlling Through-Space and Through-Bond Exchange Pathways in Bis-Cobaltocenes for Molecular Spintronics. <i>Angewandte Chemie</i> , 2020, 132, 2428-2434.	2.0	2
67	Phosphane Ligands with Enaminoketone Scaffold and their Palladium Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1151-1158.	1.2	1
68	Group 8 metallocenes as bulky functional groups in glucopyranosides. <i>Carbohydrate Research</i> , 2013, 365, 26-31.	2.3	1
69	Donor-Acceptor Substituted 2-Phenylpyridines by Means of Reductive Cross Coupling Reaction. <i>ChemistrySelect</i> , 2016, 1, 3468-3470.	1.5	1
70	Unexpected High Second-Order Nonlinear Optical Activity of Metal Complexes with Three-Branched Hexadentate 2,2'-Bipyridine Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 14901-14905.	3.3	1
71	Second Harmonic Generation and Two-Photon Fluorescence as Nonlinear Optical Properties of Dipolar Mononuclear Sesquifulvalene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 631-646.	2.0	1
72	Iterative nucleophile und elektrophile Additionen an komplexgebundenes Cyclooctatetraen: ein effizienter Zugang zu cis-5,7-disubstituierten Cycloocta-1,3-dienen. <i>Angewandte Chemie</i> , 1998, 110, 533-535.	2.0	1

#	ARTICLE	IF	CITATIONS
73	Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. ChemPhysChem, 2017, 18, 578-578.	2.1	0
74	Azoxycobaltocenium dication, a new organometallic azoxyarene. Journal of Organometallic Chemistry, 2019, 898, 120873.	1.8	0
75	Magnetic Properties of One-Dimensional Stacked Metal Complexes. Nanoscience and Technology, 2018, , 89-116.	1.5	0