

Pierre Kennepohl

List of Publications by Year in descending order

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61
papers

5,738
citations

201674

27
h-index

133252

59
g-index

74
all docs

74
docs citations

74
times ranked

8061
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and Functional Aspects of Metal Sites in Biology. <i>Chemical Reviews</i> , 1996, 96, 2239-2314.	47.7	2,455
2	A Multiplet Analysis of Fe K-Edge 1s \rightarrow 3d Pre-Edge Features of Iron Complexes. <i>Journal of the American Chemical Society</i> , 1997, 119, 6297-6314.	13.7	1,226
3	Fluorine Transfer to Alkyl Radicals. <i>Journal of the American Chemical Society</i> , 2012, 134, 4026-4029.	13.7	297
4	Evidence for Halogen Bond Covalency in Acyclic and Interlocked Halogen-Bonding Receptor Anion Recognition. <i>Journal of the American Chemical Society</i> , 2015, 137, 499-507.	13.7	195
5	On the usage of turnover numbers and quantum yields in heterogeneous photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1993, 73, 11-16.	3.9	109
6	Reduction and Aggregation of Silver Ions in Aqueous Gelatin Solutions. <i>Langmuir</i> , 1994, 10, 3018-3022.	3.5	107
7	Probing Electronic Communication in Stable Benzene-Bridged Verdazyl Diradicals. <i>Journal of Organic Chemistry</i> , 2007, 72, 8062-8069.	3.2	77
8	Interactions between major chlorogenic acid isomers and chemical changes in coffee brew that affect antioxidant activities. <i>Food Chemistry</i> , 2016, 213, 251-259.	8.2	75
9	N-Heterocyclic Carbene Complexes of Rh: Δ Reaction with Dioxygen without Oxidation. <i>Journal of the American Chemical Society</i> , 2008, 130, 3724-3725.	13.7	70
10	Abnormal Reactivity of an N-Heterocyclic Carbene (NHC) with a Phosphaalkene: A Route to a 4-Phosphino-Substituted NHC. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9844-9847.	13.8	68
11	Reduction and Aggregation of Silver Ions at the Surface of Colloidal Silica. <i>The Journal of Physical Chemistry</i> , 1994, 98, 9619-9625.	2.9	65
12	π covalency in the halogen bond. <i>Nature Communications</i> , 2020, 11, 3310.	12.8	52
13	An Electronic Rationale for Observed Initiation Rates in Ruthenium-Mediated Olefin Metathesis: σ Charge Donation in Phosphine and N-Heterocyclic Carbene Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 15774-15776.	13.7	51
14	Influence of Oxygenation on the Reactivity of Ruthenium π -Thiolato Bonds in Arene Anticancer Complexes: Insights from XAS and DFT. <i>Journal of the American Chemical Society</i> , 2009, 131, 13355-13361.	13.7	49
15	Blueprint XAS: a Matlab-based toolbox for the fitting and analysis of XAS spectra. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 132-137.	2.4	46
16	Electronic Structure Contributions to Electron-Transfer Reactivity in Iron π -Sulfur Active Sites: σ 3. Kinetics of Electron Transfer. <i>Inorganic Chemistry</i> , 2003, 42, 696-708.	4.0	45
17	Assignment of pre-edge features in the Ru K-edge X-ray absorption spectra of organometallic ruthenium complexes. <i>Inorganica Chimica Acta</i> , 2008, 361, 1059-1065.	2.4	45
18	Thin films of non-stoichiometric perovskites as potential oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 1993, 13, 272-275.	7.8	39

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19	Oxovanadium(IV) Cyclam and Bicyclam Complexes: Potential CXCR4 Receptor Antagonists. <i>Inorganic Chemistry</i> , 2010, 49, 1122-1132.	4.0	39
20	Electronic Structure Contributions to Electron-Transfer Reactivity in Iron ^{II} Sulfur Active Sites: 2. Reduction Potentials. <i>Inorganic Chemistry</i> , 2003, 42, 689-695.	4.0	38
21	Electronic Structure Contributions to Electron-Transfer Reactivity in Iron ^{II} Sulfur Active Sites: 1. Photoelectron Spectroscopic Determination of Electronic Relaxation. <i>Inorganic Chemistry</i> , 2003, 42, 679-688.	4.0	36
22	Spectroscopy of Non-Heme Iron Thiolate Complexes: Insight into the Electronic Structure of the Low-Spin Active Site of Nitrile Hydratase. <i>Inorganic Chemistry</i> , 2005, 44, 1826-1836.	4.0	36
23	Spectroscopic detection of halogen bonding resolves dye regeneration in the dye-sensitized solar cell. <i>Nature Communications</i> , 2017, 8, 1761.	12.8	35
24	Sulfur K-Edge XAS as a Probe of Sulfur-Centered Radical Intermediates. <i>Journal of the American Chemical Society</i> , 2007, 129, 3034-3035.	13.7	32
25	Disproportionation Reactions of an Organometallic Ni(II) Amidate Complex: Scope and Mechanistic Investigations. <i>Organometallics</i> , 2018, 37, 1392-1399.	2.3	30
26	Development and exploration of a new methodology for the fitting and analysis of XAS data. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 119-128.	2.4	28
27	Variable energy photoelectron spectroscopy: electronic structure and electronic relaxation. <i>Coordination Chemistry Reviews</i> , 2005, 249, 229-253.	18.8	27
28	Even the normal is abnormal: N-heterocyclic carbene C ² binding to a phosphalkene without breaking the Pt-C bond. <i>Chemical Communications</i> , 2016, 52, 998-1001.	4.1	27
29	Anthracene as a Launchpad for a Phosphinidene Sulfide and for Generation of a Phosphorus-Sulfur Material Having the Composition P ₂ S, a Vulcanized Red Phosphorus That Is Yellow. <i>Journal of the American Chemical Society</i> , 2019, 141, 431-440.	13.7	26
30	The Importance of Ligand-Induced Backdonation in the Stabilization of Square Planar d ¹⁰ Nickel Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 5259-5268.	3.3	25
31	Identifying the missing link in catalyst transfer polymerization. <i>Nature Communications</i> , 2018, 9, 3866.	12.8	23
32	Synthesis and Characterization of Cationic Rhodium Peroxo Complexes. <i>Organometallics</i> , 2012, 31, 7306-7315.	2.3	21
33	X-ray absorption methods for the determination of Ru-Cl bond covalency in olefin metathesis catalysts: On the normalization of chlorine K-edges in ruthenium complexes. <i>Inorganica Chimica Acta</i> , 2006, 359, 3042-3047.	2.4	20
34	Redox Photochemistry of Methionine by Sulfur K-edge X-ray Absorption Spectroscopy: Potential Implications for Cataract Formation. <i>Journal of the American Chemical Society</i> , 2009, 131, 3577-3582.	13.7	17
35	Computational approaches and sigma-hole interactions: general discussion. <i>Faraday Discussions</i> , 2017, 203, 131-163.	3.2	17
36	Probing covalency in halogen bonds through donor K-edge X-ray absorption spectroscopy: polyhalides as coordination complexes. <i>Faraday Discussions</i> , 2017, 203, 79-91.	3.2	16

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37	Investigation of copper solubilization and reaction in micronized copper treated wood by electron paramagnetic resonance (EPR) spectroscopy. <i>Holzforschung</i> , 2012, 66, 889-895.	1.9	15
38	X-ray Magnetic Circular Dichroism of Pseudomonas aeruginosa Nickel(II) Azurin. <i>Journal of the American Chemical Society</i> , 2004, 126, 5859-5866.	13.7	13
39	Dioxygen adducts of rhodium N-heterocyclic carbene complexes. <i>Dalton Transactions</i> , 2013, 42, 7414.	3.3	13
40	Pyridonate-Supported Titanium(III). Benzylamine as an Easy-To-Use Reductant. <i>Organometallics</i> , 2015, 34, 4941-4945.	2.3	10
41	Reacted copper(II) concentrations in earlywood and latewood of micronized copper-treated Canadian softwood species. <i>Holzforschung</i> , 2015, 69, 509-512.	1.9	10
42	Reexamining Oxidation States during the Synthesis of 2-Rhodaoxetanes from Olefins. <i>Inorganic Chemistry</i> , 2016, 55, 13-15.	4.0	10
43	Electrophilic Activation of Oxidized Sulfur Ligands and Implications for the Biological Activity of Ruthenium(II) Arene Anticancer Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 11574-11580.	4.0	8
44	Solubilisation and chemical fixation of copper(II) in micronized copper treated wood. <i>Dalton Transactions</i> , 2016, 45, 3679-3686.	3.3	8
45	Mechanistic insight into organic and industrial transformations: general discussion. <i>Faraday Discussions</i> , 2019, 220, 282-316.	3.2	8
46	Quantification of mobilized copper(II) levels in micronized copper-treated wood by electron paramagnetic resonance (EPR) spectroscopy. <i>Holzforschung</i> , 2013, 67, 815-823.	1.9	7
47	Direct experimental evaluation of ligand-induced backbonding in nickel metallacyclic complexes. <i>Faraday Discussions</i> , 2019, 220, 133-143.	3.2	7
48	Five Nitrogen Oxidation States from Nitro to Amine: Stabilization and Reactivity of a Metastable Arylhydroxylamine Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 19023-19028.	13.7	7
49	X-ray spectroscopic approaches to the investigation and characterization of photochemical processes. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 484-488.	2.4	6
50	Effects of Hyperconjugation on the Electronic Structure and Photoreactivity of Organic Sulfonyl Chlorides. <i>Inorganic Chemistry</i> , 2009, 48, 1038-1044.	4.0	5
51	Electronic structure of S-nitrosothiols from sulfur K-edge X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2011, 89, 93-97.	1.1	5
52	ρ -Rhoda- ρ ,2-diazacyclopentanes: A Series of Novel Metallacycle Complexes Derived From C ₁ N Functionalization of Ethylene. <i>Chemistry - A European Journal</i> , 2014, 20, 13345-13355.	3.3	5
53	The halogen bond in solution: general discussion. <i>Faraday Discussions</i> , 2017, 203, 347-370.	3.2	5
54	Regiocontrolled and Stereoselective Syntheses of Tetrahydrophthalazine Derivatives using Radical Cyclizations. <i>Chemistry - A European Journal</i> , 2019, 25, 976-980.	3.3	5

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55	Direct metal-carbon bonding in symmetric bis(C-H) agostic nickel complexes. <i>Chemical Science</i> , 2021, 12, 15298-15307.	7.4	5
56	Beyond the halogen bond: general discussion. <i>Faraday Discussions</i> , 2017, 203, 227-244.	3.2	2
57	Solid-state chemistry and applications: general discussion. <i>Faraday Discussions</i> , 2017, 203, 459-483.	3.2	2
58	Reacted copper(II) concentrations in amine amended micronized copper treated red pine and lodgepole pine. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 337-343.	2.9	2
59	Nature of N Bonding in Sulfonamides and Related Compounds: Insights into π -Bonding Contributions from Sulfur K-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2021, 125, 615-620.	2.5	1
60	Physical methods for mechanistic understanding: general discussion. <i>Faraday Discussions</i> , 2019, 220, 144-178.	3.2	0
61	Reaction of 3-Cl/OMe-Substituted 5-Nitrobenzothiazoles with Hydrazine: Structural and Computational Evidence for Rearrangement Pathways Implicating Intramolecular Formation of Pivotal Meisenheimer Complexes. <i>Journal of Organic Chemistry</i> , 2021, 86, 6381-6389.	3.2	0