

Reinhard Kissner

List of Publications by Year in descending order

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76
papers

3,622
citations

147801

31
h-index

133252

59
g-index

81
all docs

81
docs citations

81
times ranked

4171
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and Properties of Peroxynitrite as Studied by Laser Flash Photolysis, High-Pressure Stopped-Flow Technique, and Pulse Radiolysis. <i>Chemical Research in Toxicology</i> , 1997, 10, 1285-1292.	3.3	606
2	Reaction of Ferrate(VI) with ABTS and Self-Decay of Ferrate(VI): Kinetics and Mechanisms. <i>Environmental Science & Technology</i> , 2014, 48, 5154-5162.	10.0	248
3	Human peroxiredoxin 5 is a peroxynitrite reductase. <i>FEBS Letters</i> , 2004, 571, 161-165.	2.8	174
4	Kinetic study of the reaction of ebselen with peroxynitrite. <i>FEBS Letters</i> , 1996, 398, 179-182.	2.8	157
5	Kinetics and Mechanistic Aspects of As(III) Oxidation by Aqueous Chlorine, Chloramines, and Ozone:Â Relevance to Drinking Water Treatment. <i>Environmental Science & Technology</i> , 2006, 40, 3285-3292.	10.0	155
6	Product Distribution of Peroxynitrite Decay as a Function of pH, Temperature, and Concentration. <i>Journal of the American Chemical Society</i> , 2002, 124, 234-239.	13.7	110
7	Aerobic Epoxidation of Olefins Catalyzed by the Cobaltâ€Based Metalâ€Organic Framework STAâ€12(Co). <i>Chemistry - A European Journal</i> , 2012, 18, 887-898.	3.3	110
8	Kinetic Study of the Reaction of Glutathione Peroxidase with Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1998, 11, 1398-1401.	3.3	109
9	Can ONOOH Undergo Homolysis?. <i>Chemical Research in Toxicology</i> , 1998, 11, 87-90.	3.3	105
10	Catalysis of Electron Transfer by Selenocysteineâ€. <i>Biochemistry</i> , 2006, 45, 6038-6043.	2.5	95
11	Fenton Chemistry and Iron Chelation under Physiologically Relevant Conditions:Â Electrochemistry and Kinetics. <i>Chemical Research in Toxicology</i> , 2006, 19, 1263-1269.	3.3	87
12	Redox signaling: Bioinorganic chemistry at its best. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 2079-2086.	3.5	85
13	Hydrolysis of the Organometallic Aqua Ion fac-Triaquatricarbonylrhenium(I). Mechanism, pKa, and Formation Constants of the Polynuclear Hydrolysis Products. <i>Organometallics</i> , 1997, 16, 1833-1840.	2.3	83
14	Haptoglobin Preserves Vascular Nitric Oxide Signaling during Hemolysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1111-1122.	5.6	73
15	Vesicles as Soft Templates for the Enzymatic Polymerization of Aniline. <i>Langmuir</i> , 2009, 25, 11390-11405.	3.5	69
16	On the Irreversible Destruction of Reduced Nicotinamide Nucleotides by Hypohalous Acids. <i>Archives of Biochemistry and Biophysics</i> , 2000, 380, 181-191.	3.0	66
17	Peroxynitrous acid: controversy and consensus surrounding an enigmatic oxidant. <i>Dalton Transactions</i> , 2012, 41, 13779.	3.3	61
18	Phosphorousâ€Functionalized Bis(acyl)phosphane Oxides for Surface Modification. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4648-4652.	13.8	57

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19	Mechanistic aspects of the horseradish peroxidase-catalysed polymerisation of aniline in the presence of AOT vesicles as templates. RSC Advances, 2012, 2, 6478.	3.6	55
20	Intermediates in the Autoxidation of Nitrogen Monoxide. Chemistry - A European Journal, 2009, 15, 6161-6168.	3.3	52
21	A liposomal fluorescence assay to study permeation kinetics of drug-like weak bases across the lipid bilayer. Journal of Controlled Release, 2014, 173, 102-109.	9.9	49
22	On the Oxidation of Cytochrome c by Hypohalous Acids. Archives of Biochemistry and Biophysics, 2001, 389, 110-122.	3.0	48
23	Redox Properties and Activity of Iron Citrate Complexes: Evidence for Redox Cycling. Chemical Research in Toxicology, 2015, 28, 604-614.	3.3	46
24	Peroxynitrate is formed rapidly during decomposition of peroxynitrite at neutral pH. Dalton Transactions, 2009, , 5730.	3.3	42
25	Decomposition kinetics of peroxynitrite: influence of pH and buffer. Dalton Transactions, 2013, 42, 9898.	3.3	41
26	Redox Properties of the Iron Complexes of Orally Active Iron Chelators CP20, CP502, CP509, and ICL670. Helvetica Chimica Acta, 2004, 87, 3021-3034.	1.6	39
27	Peroxynitrous Acid - Where is the Hydroxyl Radical?. IUBMB Life, 2004, 55, 567-572.	3.4	38
28	Efficient Polymerization of the Aniline Dimer <i>p</i> -Aminodiphenylamine (PADPA) with <i>Trametes versicolor</i> Laccase/O ₂ as Catalyst and Oxidant and AOT Vesicles as Templates. ACS Catalysis, 2014, 4, 3421-3434.	11.2	38
29	The use of <i>Trametes versicolor</i> laccase for the polymerization of aniline in the presence of vesicles as templates. Enzyme and Microbial Technology, 2014, 55, 72-84.	3.2	37
30	Synthesis and Characterization of Tris(tetraethylammonium) Pentacyanoperoxynitritocobaltate(III). Helvetica Chimica Acta, 2000, 83, 748-754.	1.6	36
31	Iridium-Imine and -Amine Complexes Relevant to the (S)-Metolachlor Process: Structures, Exchange Kinetics, and C-H Activation by IrI Causing Racemization. Chemistry - A European Journal, 2004, 10, 4546-4555.	3.3	32
32	ONOOH does not react with H ₂ : Potential beneficial effects of H ₂ as an antioxidant by selective reaction with hydroxyl radicals and peroxynitrite. Free Radical Biology and Medicine, 2014, 75, 191-194.	2.9	31
33	Oxidation of Nitrite by Peroxynitrous Acid. Journal of Physical Chemistry A, 2003, 107, 1763-1769.	2.5	29
34	The hydrolysis of gold(I) in aqueous acetonitrile solutions. Journal of the Chemical Society Dalton Transactions, 1997, , 1773-1778.	1.1	28
35	Rapid scavenging of peroxynitrous acid by monohydroascorbate. Free Radical Biology and Medicine, 2003, 35, 1529-1537.	2.9	28
36	Synthesis, characterization and initial evaluation of 5-nitro-1-(trifluoromethyl)-3H-1,3,2-benziodaoxol-3-one. Beilstein Journal of Organic Chemistry, 2014, 10, 1-6.	2.2	25

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37	Conformation of Peroxynitrite: Determination by Crystallographic Analysis. <i>Chemical Research in Toxicology</i> , 1999, 12, 305-307.	3.3	24
38	The influence of anionic vesicles on the oligomerization of p-aminodiphenylamine catalyzed by horseradish peroxidase and hydrogen peroxide. <i>Synthetic Metals</i> , 2017, 226, 89-103.	3.9	22
39	Oxidation of NADH by Chloramines and Chloramides and Its Activation by Iodide and by Tertiary Amines. <i>Archives of Biochemistry and Biophysics</i> , 2001, 393, 297-307.	3.0	21
40	Water increases rates of epoxidation by Mn(III)porphyrins/imidazole/IO ₄ ⁻ in CH ₂ Cl ₂ . Analogy with peroxidase and chlorite dismutase. <i>Dalton Transactions</i> , 2011, 40, 8695.	3.3	21
41	Electrode Potentials of L-Tryptophan, L-Tyrosine, 3-Nitro-L-tyrosine, 2,3-Difluoro-L-tyrosine, and 2,3,5-Trifluoro-L-tyrosine. <i>Biochemistry</i> , 2016, 55, 2849-2856.	2.5	21
42	Hydrogen Isotope Effect on the Isomerization of Peroxynitrous Acid. <i>Helvetica Chimica Acta</i> , 1998, 81, 1201-1206.	1.6	20
43	Qualitative and Quantitative Determination of Nitrite and Nitrate with Ion Chromatography. <i>Methods in Enzymology</i> , 2005, 396, 61-68.	1.0	20
44	Enzymatic polymerization of pyrrole with <i>Trametes versicolor</i> laccase and dioxygen in the presence of vesicles formed from AOT (sodium bis-(2-ethylhexyl) sulfosuccinate) as templates. <i>Synthetic Metals</i> , 2015, 200, 123-134.	3.9	20
45	[36] Peroxynitrite studied by stopped-flow spectroscopy. <i>Methods in Enzymology</i> , 1999, 301, 342-352.	1.0	19
46	Insight into the template effect of vesicles on the laccase-catalyzed oligomerization of N-phenyl-1,4-phenylenediamine from Raman spectroscopy and cyclic voltammetry measurements. <i>Scientific Reports</i> , 2016, 6, 30724.	3.3	16
47	Preventing Nitrite Contamination in Tetramethylammonium Peroxynitrite Solutions. <i>Inorganic Chemistry</i> , 2004, 43, 6519-6521.	4.0	15
48	Effect of template type on the preparation of the emeraldine salt form of polyaniline (PANI-ES) with horseradish peroxidase isoenzyme C (HRPC) and hydrogen peroxide. <i>RSC Advances</i> , 2019, 9, 33080-33095.	3.6	15
49	On the Chemical and Electrochemical One-Electron Reduction of Peroxynitrous Acid. <i>Journal of Physical Chemistry A</i> , 2005, 109, 965-969.	2.5	14
50	Homolysis of the Peroxynitrite Anion Detected with Permanganate. <i>Inorganic Chemistry</i> , 2007, 46, 10655-10658.	4.0	14
51	Solvated gold(I) in acetonitrile with inert counterions: a versatile starting material for gold(I) chemistry. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 136.	2.0	13
52	Formation and Properties of Peroxynitrite as Studied by Laser Flash Photolysis, High-Pressure Stopped-Flow Technique, and Pulse Radiolysis Volume 10, Number 11, November 1997, pp 1285-1292. <i>Chemical Research in Toxicology</i> , 1998, 11, 557-557.	3.3	13
53	Enzymatic Synthesis of Highly Electroactive Oligoanilines from a p-Aminodiphenylamine/Aniline Mixture with Anionic Vesicles as Templates. <i>Langmuir</i> , 2018, 34, 9153-9166.	3.5	13
54	Main-chain scission of individual macromolecules induced by solvent swelling. <i>Chemical Science</i> , 2019, 10, 6125-6139.	7.4	13

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55	Halide catalysis of the electrochemical oxidation of gold in acetonitrile. Journal of Electroanalytical Chemistry, 1995, 385, 71-75.	3.8	12
56	Gibbs Energy of Formation of Peroxynitrite. Chemical Research in Toxicology, 2001, 14, 348-350.	3.3	12
57	Enhanced chlordecone (Kepone) removal by FeO-nanoparticles loaded on activated carbon. Journal of Environmental Chemical Engineering, 2017, 5, 1608-1617.	6.7	12
58	Reaction of CO ₂ with ONOO ⁻ : One Molecule of CO ₂ Is Not Enough. Chemical Research in Toxicology, 2018, 31, 721-730.	3.3	12
59	Adsorptive stripping voltammetry of Ni(II) using fast linear sweeps. Fresenius Zeitschrift für Analytische Chemie, 1988, 332, 787-790.	0.8	10
60	Thinking Outside the Cage: A New Hypothesis That Accounts for Variable Yields of Radicals from the Reaction of CO ₂ with ONOO ⁻ . Chemical Research in Toxicology, 2020, 33, 1516-1527.	3.3	10
61	Evaluation of Activation Volumes for the Conversion of Peroxynitrous to Nitric Acid. Journal of Physical Chemistry A, 2003, 107, 11261-11263.	2.5	9
62	Photon-Initiated Homolysis of Peroxynitrous Acid. Inorganic Chemistry, 2009, 48, 7307-7312.	4.0	8
63	How experimental details matter. The case of a laccase-catalysed oligomerisation reaction. RSC Advances, 2018, 8, 33229-33242.	3.6	7
64	Effect of Template Type on the <i>Trametes versicolor</i> Laccase-Catalyzed Oligomerization of the Aniline Dimer <i>p</i> -Aminodiphenylamine (PADPA). ACS Omega, 2019, 4, 2931-2947.	3.5	7
65	Reaction Steps in Nitrogen Monoxide Autoxidation. Advances in Inorganic Chemistry, 2015, 67, 335-354.	1.0	6
66	Kinetics Evidence for a Complex between Peroxynitrous Acid and Titanium(IV). Inorganic Chemistry, 2004, 43, 4805-4807.	4.0	5
67	Primary photochemistry of peroxynitrite in aqueous solution. Chemical Physics Letters, 2015, 641, 187-192.	2.6	5
68	Application of an enzymatic cascade reaction for the synthesis of the emeraldine salt form of polyaniline. Chemical Papers, 2021, 75, 5071-5085.	2.2	5
69	Hemin-catalyzed oxidative oligomerization of <i>p</i> -aminodiphenylamine (PADPA) in the presence of aqueous sodium dodecylbenzenesulfonate (SDBS) micelles. RSC Advances, 2022, 12, 13154-13167.	3.6	5
70	Preparation and Properties of Lithium and Sodium Peroxynitrite. Chemical Research in Toxicology, 2008, 21, 2257-2259.	3.3	4
71	Low-Temperature Trapping of Intermediates in the Reaction of NO ⁻ with O ₂ . Inorganic Chemistry, 2017, 56, 4846-4851.	4.0	4
72	Electrode reactions of iron oxide-hydroxide colloids. Dalton Transactions, 2014, 43, 15407-15413.	3.3	3

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73	Determination of the formal redox potentials of the cyanhaemoglobin/cyanmethaemoglobin and the myoglobin/metmyoglobin couples at neutral pH. <i>Bioelectrochemistry</i> , 2018, 120, 83-86.	4.6	1
74	Kinetics Evidence for a Complex Between Peroxynitrous Acid and Titanium(IV).. <i>ChemInform</i> , 2004, 35, no.	0.0	0
75	P51. Intermediates in the autoxidation of nitrogen monoxide. <i>Nitric Oxide - Biology and Chemistry</i> , 2008, 19, 54-55.	2.7	0
76	Hydrolysis and Photolysis of Tris(tetraethylammonium) Pentacyanoperoxynitritocobaltate(III): Evidence for a Novel Complex, Pentacyanonitratocobaltate(III). <i>Helvetica Chimica Acta</i> , 2001, 84, 3057-3062.	1.6	0