Karl J Koebke

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8233495/publications.pdf

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24	321	840776 11	888059 17
papers	citations	h-index	g-index

24	24	24	355
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polar Mixed-Solid Solute Systems in Supercritical Carbon Dioxide: Entrainer Effect and Its Influence on Solubility and Selectivity. Journal of Chemical & Engineering Data, 2008, 53, 415-421.	1.9	38
2	Catalysis and Electron Transfer in Deâ€...Novo Designed Helical Scaffolds. Angewandte Chemie - International Edition, 2020, 59, 7678-7699.	13.8	25
3	Catalysis and Electron Transfer in De Novo Designed Metalloproteins. Chemical Reviews, 2022, 122, 12046-12109.	47.7	25
4	Does the Oxidation of Nitric Oxide by oxyMyoglobin Share an Intermediate with the metMyoglobin-Catalyzed Isomerization of Peroxynitrite?. Inorganic Chemistry, 2013, 52, 7623-7632.	4.0	24
5	Modifying the Steric Properties in the Second Coordination Sphere of Designed Peptides Leads to Enhancement of Nitrite Reductase Activity. Angewandte Chemie - International Edition, 2018, 57, 3954-3957.	13.8	23
6	Molecular Structure of the Surface-Immobilized Super Uranyl Binding Protein. Journal of Physical Chemistry B, 2021, 125, 7706-7716.	2.6	21
7	Clarifying the Copper Coordination Environment in a de Novo Designed Red Copper Protein. Inorganic Chemistry, 2018, 57, 12291-12302.	4.0	19
8	Development of de Novo Copper Nitrite Reductases: Where We Are and Where We Need To Go. ACS Catalysis, 2018, 8, 8046-8057.	11.2	16
9	Rational De Novo Design of a Cu Metalloenzyme for Superoxide Dismutation. Chemistry - A European Journal, 2020, 26, 249-258.	3.3	16
10	Methylated Histidines Alter Tautomeric Preferences that Influence the Rates of Cu Nitrite Reductase Catalysis in Designed Peptides. Journal of the American Chemical Society, 2019, 141, 7765-7775.	13.7	15
11	Noncoded Amino Acids in de Novo Metalloprotein Design: Controlling Coordination Number and Catalysis. Accounts of Chemical Research, 2019, 52, 1160-1167.	15.6	13
12	Traversing the Redâ€“Greenâ€“Blue Color Spectrum in Rationally Designed Cupredoxins. Journal of the American Chemical Society, 2020, 142, 15282-15294.	13.7	10
13	Making or Breaking Metalâ€Dependent Catalytic Activity: The Role of Stammers in Designed Threeâ€Stranded Coiled Coils. Angewandte Chemie - International Edition, 2020, 59, 20445-20449.	13.8	10
14	The pHâ€Induced Selectivity Between Cysteine or Histidine Coordinated Heme in an Artificial Îâ€Helical Metalloprotein. Angewandte Chemie - International Edition, 2021, 60, 3974-3978.	13.8	10
15	Direct Monitoring of the Reaction between Photochemically Generated Nitric Oxide and Mycobacterium tuberculosis Truncated Hemoglobin N Wild Type and Variant Forms: An Assessment of Computational Mechanistic Predictions. Biochemistry, 2016, 55, 686-696.	2.5	9
16	New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. ACS Chemical Biology, 2021, 16, 2109-2115.	3.4	9
17	Modifying the Steric Properties in the Second Coordination Sphere of Designed Peptides Leads to Enhancement of Nitrite Reductase Activity. Angewandte Chemie, 2018, 130, 4018-4021.	2.0	8
18	Refinement of protein Fe(II) binding characteristics utilizing a competition assay exploiting small molecule ferrous chelators. Journal of Inorganic Biochemistry, 2020, 203, 110882.	3.5	7

#	Article	IF	Citations
19	Probing Metal Ion Discrimination in a Protein Designed to Bind Uranyl Cation With Femtomolar Affinity. Frontiers in Molecular Biosciences, 2019, 6, 73.	3.5	6
20	Kinetic Analysis of Transient Intermediates in the Mechanism of Prenyl-Flavin-Dependent Ferulic Acid Decarboxylase. Biochemistry, 2021, 60, 125-134.	2.5	6
21	Katalyse und Elektronentransfer in helikalen Deâ€novoâ€GerÃ¼ststrukturen. Angewandte Chemie, 2020, 132, 7750-7773.	2.0	5
22	Nitrite reductase activity within an antiparallel de novo scaffold. Journal of Biological Inorganic Chemistry, 2021, 26, 855-862.	2.6	4
23	The pHâ€Induced Selectivity Between Cysteine or Histidine Coordinated Heme in an Artificial Î±â€Helical Metalloprotein. Angewandte Chemie, 2021, 133, 4020-4024.	2.0	2
24	Making or Breaking Metalâ€Dependent Catalytic Activity: The Role of Stammers in Designed Threeâ€Stranded Coiled Coils. Angewandte Chemie, 2020, 132, 20625-20629.	2.0	0