Ronald L Koder

List of Publications by Year
in descending order

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60	1,595	430754	302012
papers	citations	18 h-index	39 g-index

68	68	68	1813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermalization of Fluorescent Protein Excitonâ€“Polaritons at Room Temperature. Advanced Materials, 2022, 34, e2109107.	11.1	7
2	Oxidation-reduction and photophysical properties of isomeric forms of Safranin. PLoS ONE, 2022, 17, e0265105.	1.1	0
3	Dynamics in natural and designed elastins and their relation to elastic fiber structure and recoil. Biophysical Journal, 2021, 120, 4623-4634.	0.2	4
4	Non-Covalent Coatings on Carbon Nanotubes Mediate Photosensitizer Interactions. ACS Applied Materials & Interfaces, 2021, 13, 51343-51350.	4.0	0
5	Dynamics in Natural and Designed Elastins and their Relation to Elastic Fiber Structure and Recoil. Biophysical Journal, 2020, 118, 536a-537a.	0.2	1
6	Designing heterotropically activated allosteric conformational switches using supercharging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5291-5297.	3.3	10
7	A General Method to Design Allosteric Conformational Switches. Biophysical Journal, 2019, 116, 164a.	0.2	0
8	Engendering Catalytic Activity by Increasing Dynamics in a Designed Enzyme. Biophysical Journal, 2019, 116, 68a.	0.2	0
9	Order, Disorder, and Temperature-Driven Compaction in a Designed Elastin Protein. Journal of Physical Chemistry B, 2018, 122, 2725-2736.	1.2	15
10	Probing Charge Transport through Peptide Bonds. Journal of Physical Chemistry Letters, 2018, 9, 763-767.	2.1	38
11	Engendering Methane Monooxygenase and Hydrogen Peroxide Oxidase Activity into a Designed Dimetal Protein by Increasing Protein Dynamics. Biophysical Journal, 2018, 114, 411a.	0.2	0
12	Designed Enzymes: Creating a more Efficient Nitric Oxide Dioxygenase. Biophysical Journal, 2018, 114, 35a.	0.2	0
13	NMR Studies of Secondary Structure and Compaction of Minielastin. Biophysical Journal, 2018, 114, 365a.	0.2	0
14	Supercharging as a General Strategy for Making Proteins into Conformational Switches and their Use in Biosensing. Biophysical Journal, 2018, 114, 588a.	0.2	0
15	Mechanism-Informed Refinement Reveals Altered Substrate-Binding Mode for Catalytically Competent Nitroreductase. Structure, 2017, 25, 978-987.e4.	1.6	18
16	Designed Enzymes and the Driving Forces Behind Interdomain Electron Transfer. Biophysical Journal, 2017, 112, 66a.	0.2	0
17	Optimizing Protein Dynamics in Metalloenzyme Design. Biophysical Journal, 2017, 112, 193a.	0.2	0
18	Design of Supercharged Proteins to Impart Allosteric Behavior and their Use in Biosensing. Biophysical Journal, 2017, 112, 510a.	0.2	0

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19	The design features cells use to build their transmembrane proton gradient. Physical Biology, 2017, 14, 013001.	0.8	4
20	Handheld highly selective plasmonic chem/biosensor using engineered binding proteins for extreme conformational changes. , 2017, , .		0
21	Handheld chem/biosensor using extreme conformational changes in designed binding proteins to enhance surface plasmon resonance (SPR). Proceedings of SPIE, 2016, , .	0.8	2
22	Fast, cheap and out of control â€" Insights into thermodynamic and informatic constraints on natural protein sequences from de novo protein design. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 485-492.	0.5	10
23	Photosynthesis in a Single Protein. Biophysical Journal, 2015, 108, 605a.	0.2	0
24	Enhanced Transverse Photo-Induced Voltage by Slow Light. , 2015, , .		0
25	Rational design of a zinc phthalocyanine binding protein. Journal of Structural Biology, 2014, 185, 178-185.	1.3	15
26	An extended scope synthesis of an artificial safranine cofactor. Tetrahedron Letters, 2014, 55, 2487-2491.	0.7	5
27	Observation of persistent Î±â€helical content and discrete types of backbone disorder during a molten globule to ordered peptide transition via deepâ€UV resonance Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 957-962.	1.2	8
28	Rational Design of a Zinc Phthalocyanine Binding Protein. Biophysical Journal, 2013, 104, 685a.	0.2	0
29	A three-dimensional printed cell for rapid, low-volume spectroelectrochemistry. Analytical Biochemistry, 2013, 439, 1-3.	1.1	17
30	An Artificial Safranine Enzyme which Activates Chemotherapeutic Prodrugs. Biophysical Journal, 2013, 104, 205a.	0.2	1
31	Hemoprotein Design using Minimal Sequence Information. Biophysical Journal, 2013, 104, 661a.	0.2	1
32	Dynamic Factors Affecting Gaseous Ligand Binding in an Artificial Oxygen Transport Protein. Biochemistry, 2013, 52, 447-455.	1.2	14
33	Persistent Î±-Helical Content and Local Helical Structural Fluctuations from a Molten Globule to Ordered Peptide Transition. Biophysical Journal, 2012, 102, 444a.	0.2	0
34	Fundamental Limits on Wavelength, Efficiency and Yield of the Charge Separation Triad. PLoS ONE, 2012, 7, e36065.	1.1	3
35	Manipulating reduction potentials in an artificial safranin cofactor. Tetrahedron Letters, 2012, 53, 1201-1203.	0.7	9
36	Computational Design of Thermostabilizing <scp>d</scp>-Amino Acid Substitutions. Journal of the American Chemical Society, 2011, 133, 18750-18759.	6.6	38

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37	Manipulating Cofactor Binding Thermodynamics in an Artificial Oxygen Transport Protein. Biochemistry, 2011, 50, 10254-10261.	1.2	21
38	¹⁵N Solid-State NMR as a Probe of Flavin H-Bonding. Journal of Physical Chemistry B, 2011, 115, 7788-7798.	1.2	20
39	Design principles for chlorophyllâ€binding sites in helical proteins. Proteins: Structure, Function and Bioinformatics, 2011, 79, 463-476.	1.5	20
40	Designing artificial enzymes by intuition and computation. Nature Chemistry, 2010, 2, 15-24.	6.6	232
41	De Novo Self-Assembling Collagen Heterotrimers Using Explicit Positive and Negative Design. Biochemistry, 2010, 49, 2307-2316.	1.2	34
42	Geometric constraints for porphyrin binding in helical protein binding sites. Proteins: Structure, Function and Bioinformatics, 2009, 74, 400-416.	1.5	25
43	Design and engineering of an O2 transport protein. Nature, 2009, 458, 305-309.	13.7	228
44	Reversible proton coupled electron transfer in a peptide-incorporated naphthoquinoneamino acid. Chemical Communications, 2009, , 168-170.	2.2	18
45	Hydrogen bond-free flavin redox properties: managing flavins in extreme aprotic solvents. Organic and Biomolecular Chemistry, 2008, 6, 2204.	1.5	12
46	Controlling complexity and water penetration in functional de novo protein design. Biochemical Society Transactions, 2008, 36, 1106-1111.	1.6	18
47	A flavin analogue with improved solubility in organic solvents. Tetrahedron Letters, 2007, 48, 5517-5520.	0.7	12
48	Nativelike Structure in Designed Four Î±-Helix Bundles Driven by Buried Polar Interactions. Journal of the American Chemical Society, 2006, 128, 14450-14451.	6.6	43
49	15N Solid-State NMR Provides a Sensitive Probe of Oxidized Flavin Reactive Sites. Journal of the American Chemical Society, 2006, 128, 15200-15208.	6.6	15
50	Intelligent design: the de novo engineering of proteins with specified functions. Dalton Transactions, 2006, , 3045.	1.6	65
51	The HP-1 maquette: From an apoprotein structure to a structured hemoprotein designed to promote redox-coupled proton exchange. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5536-5541.	3.3	70
52	Hydrophilic to amphiphilic design in redox protein maquettes. Current Opinion in Chemical Biology, 2003, 7, 741-748.	2.8	48
53	Structures of Nitroreductase in Three States. Journal of Biological Chemistry, 2002, 277, 11513-11520.	1.6	130
54	Flavin Thermodynamics Explain the Oxygen Insensitivity of Enteric Nitroreductasesâ€. Biochemistry, 2002, 41, 14197-14205.	1.2	78

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55	Two-electron reduction of quinones by Enterobacter cloacae NAD(P)H:nitroreductase: quantitative structure-activity relationships. Archives of Biochemistry and Biophysics, 2002, 403, 249-258.	1.4	32
56	Quantitative Structureâ€“Activity Relationships in Two-Electron Reduction of Nitroaromatic Compounds by Enterobacter cloacae NAD(P)H:Nitroreductase. Archives of Biochemistry and Biophysics, 2001, 385, 170-178.	1.4	56
57	Retro-Nitroreductase, a Putative Evolutionary Precursor toEnterobacter cloacaeStrain 96-3 Nitroreductase. Antioxidants and Redox Signaling, 2001, 3, 747-755.	2.5	4
58	Mutational and spectroscopic studies of the significance of the active site glutamine to metal ion specificity in superoxide dismutase. Journal of Inorganic Biochemistry, 2000, 80, 247-256.	1.5	60
59	Steady-state kinetic mechanism, stereospecificity, substrate and inhibitor specificity of Enterobacter cloacae nitroreductase. BBA - Proteins and Proteomics, 1998, 1387, 395-405.	2.1	116
60	Overexpression, Isotopic Labeling, and Spectral Characterization ofEnterobacter cloacaeNitroreductase. Protein Expression and Purification, 1998, 13, 53-60.	0.6	18