

# Martin K Safo

## List of Publications by Year in descending order

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140  
papers

4,416  
citations

94269

37  
h-index

128067

60  
g-index

143  
all docs

143  
docs citations

143  
times ranked

4007  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating hemoglobin allostery for treatment of sickle cell disease: current progress and intellectual property. <i>Expert Opinion on Therapeutic Patents</i> , 2022, 32, 115-130.	2.4	9
2	Development of 3D-Printed, Liquisolid and Directly Compressed Glimepiride Tablets, Loaded with Black Seed Oil Self-Nanoemulsifying Drug Delivery System: In Vitro and In Vivo Characterization. <i>Pharmaceuticals</i> , 2022, 15, 68.	1.7	6
3	Molecular insight into 2-phosphoglycolate activation of the phosphatase activity of bisphosphoglycerate mutase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 472-482.	1.1	4
4	Design, Synthesis, and Antisickling Investigation of a Nitric Oxide-Releasing Prodrug of 5HMF for the Treatment of Sickle Cell Disease. <i>Biomolecules</i> , 2022, 12, 696.	1.8	4
5	Anti-Quorum Sensing Activities of Gliptins against <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>Biomedicines</i> , 2022, 10, 1169.	1.4	23
6	Metabolic Reprogramming in Sickle Cell Diseases: Pathophysiology and Drug Discovery Opportunities. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7448.	1.8	2
7	New Antiproliferative Triflavanone from <i>Thymelaea hirsuta</i> —Isolation, Structure Elucidation and Molecular Docking Studies. <i>Molecules</i> , 2021, 26, 739.	1.7	7
8	MetAP2 inhibition modifies hemoglobin S to delay polymerization and improves blood flow in sickle cell disease. <i>Blood Advances</i> , 2021, 5, 1388-1402.	2.5	4
9	Inborn errors in the vitamin B6 salvage enzymes associated with neonatal epileptic encephalopathy and other pathologies. <i>Biochimie</i> , 2021, 183, 18-29.	1.3	16
10	3D Interaction Homology: Hydropathic Analyses of the “Cation” and “Î€” Interaction Motifs in Phenylalanine, Tyrosine, and Tryptophan Residues. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2937-2956.	2.5	11
11	Not Only Antimicrobial: Metronidazole Mitigates the Virulence of <i>Proteus mirabilis</i> Isolated from Macerated Diabetic Foot Ulcer. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6847.	1.3	32
12	Improving the Solubility and Oral Bioavailability of a Novel Aromatic Aldehyde Antisickling Agent (PP10) for the Treatment of Sickle Cell Disease. <i>Pharmaceutics</i> , 2021, 13, 1148.	2.0	4
13	Discovery of novel quinoline-based analogues of combretastatin A-4 as tubulin polymerisation inhibitors with apoptosis inducing activity and potent anticancer effect. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 802-818.	2.5	15
14	Chemical Composition of the Red Sea Green Algae <i>Ulva lactuca</i> : Isolation and In Silico Studies of New Anti-COVID-19 Ceramides. <i>Metabolites</i> , 2021, 11, 816.	1.3	8
15	Umuhengerin Neuroprotective Effects in Streptozotocin-Induced Alzheimer’s Disease Mouse Model via Targeting Nrf2 and NF-Î€2 Signaling Cascades. <i>Antioxidants</i> , 2021, 10, 2011.	2.2	9
16	X-ray crystal structure of a 2-amino-3,4-dihydroquinazoline 5-HT3 serotonin receptor antagonist and related analogs. <i>Journal of Molecular Structure</i> , 2020, 1202, 127276.	1.8	0
17	Major flavonoids from <i>Psiadia punctulata</i> produce vasodilation via activation of endothelial dependent NO signaling. <i>Journal of Advanced Research</i> , 2020, 24, 273-279.	4.4	14
18	Osteoprotective Activity and Metabolite Fingerprint via UPLC/MS and GC/MS of <i>Lepidium sativum</i> in Ovariectomized Rats. <i>Nutrients</i> , 2020, 12, 2075.	1.7	12

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19	Exploration of Structure-Activity Relationship of Aromatic Aldehydes Bearing Pyridinylmethoxy-Methyl Esters as Novel Antisickling Agents. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 14724-14739.	2.9	7
20	An Investigation of Structure-Activity Relationships of Azolylacryloyl Derivatives Yielded Potent and Long-Acting Hemoglobin Modulators for Reversing Erythrocyte Sickling. <i>Biomolecules</i> , 2020, 10, 1508.	1.8	6
21	<i>Euphorbia cuneata</i> Represses LPS-Induced Acute Lung Injury in Mice via Its Antioxidative and Anti-Inflammatory Activities. <i>Plants</i> , 2020, 9, 1620.	1.6	8
22	Effective and Versatile Synthesis of Ginkgotoxin and Its 4-O-Derivatives through Regioselective 4-O-Alkylation and 4-O-Chlorination of 3,5-O-Dibenzylpyridoxine. <i>SynOpen</i> , 2020, 04, 51-54.	0.8	1
23	VZHE-039, a novel antisickling agent that prevents erythrocyte sickling under both hypoxic and anoxic conditions. <i>Scientific Reports</i> , 2020, 10, 20277.	1.6	14
24	Introducing of potent cytotoxic novel 2-(aroylamino)cinnamamide derivatives against colon cancer mediated by dual apoptotic signal activation and oxidative stress. <i>Bioorganic Chemistry</i> , 2020, 101, 103953.	2.0	4
25	Investigating the Potential of Transmucosal Delivery of Febuxostat from Oral Lyophilized Tablets Loaded with a Self-Nanoemulsifying Delivery System. <i>Pharmaceutics</i> , 2020, 12, 534.	2.0	14
26	Structural elucidation and in vivo anti-arthritis activity of $\beta$ -amyrin and polyphenolic acid isolated from the root bark of <i>Ziziphus abyssinica</i> Hochst. <i>Ex. A Rich</i> (Rhamnaceae). <i>Bioorganic Chemistry</i> , 2020, 98, 103744.	2.0	14
27	Enhancement of Simvastatin ex vivo Permeation from Mucoadhesive Buccal Films Loaded with Dual Drug Release Carriers. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 4001-4020.	3.3	16
28	Hemoglobin: Structure, Function and Allostery. <i>Sub-Cellular Biochemistry</i> , 2020, 94, 345-382.	1.0	106
29	Structural modification of azolylacryloyl derivatives yields a novel class of covalent modifiers of hemoglobin as potential antisickling agents. <i>MedChemComm</i> , 2019, 10, 1900-1906.	3.5	6
30	3D interaction homology: The hydrophobic interaction environments of even alanine are diverse and provide novel structural insight. <i>Journal of Structural Biology</i> , 2019, 207, 183-198.	1.3	8
31	<i>Psiadia punctulata</i> major flavonoids alleviate exaggerated vasoconstriction produced by advanced glycation end products. <i>PLoS ONE</i> , 2019, 14, e0222101.	1.1	11
32	Pyridoxamine Supplementation Effectively Reverses the Abnormal Phenotypes of Zebrafish Larvae With PNPO Deficiency. <i>Frontiers in Pharmacology</i> , 2019, 10, 1086.	1.6	5
33	Zein-alpha lipoic acid-loaded nanoparticles to enhance the oral bioavailability of dapoxetine: optimization and clinical pharmacokinetic evaluation. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7461-7473.	3.3	7
34	Rapid and reproducible characterization of sickling during automated deoxygenation in sickle cell disease patients. <i>American Journal of Hematology</i> , 2019, 94, 575-584.	2.0	47
35	PP-14, a Novel Structurally-Enhanced Antisickling Allosteric Hemoglobin Effector, Increases Oxygen Affinity and Disrupts Hemoglobin S Polymer Formation. <i>Blood</i> , 2019, 134, 73-73.	0.6	1
36	Rational design of pyridyl derivatives of vanillin for the treatment of sickle cell disease. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 2530-2538.	1.4	26

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37	A Triazole Disulfide Compound Increases the Affinity of Hemoglobin for Oxygen and Reduces the Sickling of Human Sickle Cells. <i>Molecular Pharmaceutics</i> , 2018, 15, 1954-1963.	2.3	18
38	Rational modification of vanillin derivatives to stereospecifically destabilize sickle hemoglobin polymer formation. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 956-964.	1.1	15
39	Design, Synthesis, and Biological Evaluation of Allosteric Effectors That Enhance CO Release from Carboxyhemoglobin. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 714-718.	1.3	5
40	LC-MS Analysis of Anti-Sickling Compounds in Cord Blood Derived RBCs Demonstrates Modification of Fetal Hemoglobin and Globin Chain Binding Preferences. <i>Blood</i> , 2018, 132, 1074-1074.	0.6	0
41	Design, Synthesis, and Biological Evaluation of Ester and Ether Derivatives of Antisickling Agent 5-HMF for the Treatment of Sickle Cell Disease. <i>Molecular Pharmaceutics</i> , 2017, 14, 3499-3511.	2.3	39
42	Structural and Functional Insight of Sphingosine 1-Phosphate-Mediated Pathogenic Metabolic Reprogramming in Sickle Cell Disease. <i>Scientific Reports</i> , 2017, 7, 15281.	1.6	47
43	Maintaining pH-dependent conformational flexibility of M1 is critical for efficient influenza A virus replication. <i>Emerging Microbes and Infections</i> , 2017, 6, 1-11.	3.0	11
44	Aryloxyalkanoic Acids as Non-Covalent Modifiers of the Allosteric Properties of Hemoglobin. <i>Molecules</i> , 2016, 21, 1057.	1.7	4
45	Inactive mutants of human pyridoxine 5-phosphate oxidase: a possible role for a noncatalytic pyridoxal 5-phosphate tight binding site. <i>FEBS Open Bio</i> , 2016, 6, 398-408.	1.0	15
46	Characterization of the mixed axial ligand complex (4-cyanopyridine)(imidazole)(tetramesitylporphinato)iron(iii) perchlorate. Stabilization by synergic bonding. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 254-264.	0.4	1
47	New developments in anti-sickling agents: can drugs directly prevent the polymerization of sickle haemoglobin <i>in vivo</i> ? <i>British Journal of Haematology</i> , 2016, 175, 24-30.	1.2	58
48	Crystal structure of carbonmonoxy sickle hemoglobin in R-state conformation. <i>Journal of Structural Biology</i> , 2016, 194, 446-450.	1.3	30
49	Sphingosine-1-phosphate promotes erythrocyte glycolysis and oxygen release for adaptation to high-altitude hypoxia. <i>Nature Communications</i> , 2016, 7, 12086.	5.8	163
50	Broad Spectrum Anti-Influenza Agents by Inhibiting Self-Association of Matrix Protein 1. <i>Scientific Reports</i> , 2016, 6, 32340.	1.6	10
51	Development of a Triazolylsulfide Compound That Increases the Affinity of Hemoglobin for Oxygen and Reduces Hypoxic Sickling of Sickle Cells. <i>Blood</i> , 2016, 128, 3642-3642.	0.6	1
52	Vzhe-039, a Novel Structurally-Enhanced Allosteric Hemoglobin Effector Inhibits Sickling of SS Erythrocytes In Vitro, and Exhibits Improved Pharmacologic Properties In Vivo. <i>Blood</i> , 2016, 128, 3645-3645.	0.6	2
53	Structural and Functional Insight of Sphingosine 1-Phosphate-Mediated Pathogenic Metabolic Reprogramming in Sickle Cell Disease. <i>Blood</i> , 2016, 128, 2474-2474.	0.6	0
54	3d interaction homology: The structurally known rotamers of tyrosine derive from a surprisingly limited set of information-rich hydrophobic interaction environments described by maps. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 1118-1136.	1.5	10

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55	Identification of a novel class of covalent modifiers of hemoglobin as potential antisickling agents. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6353-6370.	1.5	16
56	Molecular basis of <i>E. coli</i> l-threonine aldolase catalytic inactivation at low pH. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 278-283.	1.1	7
57	A Plasmid-Borne System To Assess the Excision and Integration of Staphylococcal Cassette Chromosome mec Mediated by CcrA and CcrB. <i>Journal of Bacteriology</i> , 2015, 197, 2754-2761.	1.0	6
58	Structural basis for the antipolymer activity of Hb $\alpha$ 2 $\beta$ 2 trapped in a tense conformation. <i>Journal of Molecular Structure</i> , 2015, 1099, 99-107.	1.8	3
59	Design, Synthesis, and Investigation of Novel Nitric Oxide (NO)-Releasing Prodrugs as Drug Candidates for the Treatment of Ischemic Disorders: Insights into NO-Releasing Prodrug Biotransformation and Hemoglobin $\alpha$ -NO Biochemistry. <i>Biochemistry</i> , 2015, 54, 7178-7192.	1.2	9
60	Therapeutic Strategies to Alter the Oxygen Affinity of Sickle Hemoglobin. <i>Hematology/Oncology Clinics of North America</i> , 2014, 28, 217-231.	0.9	65
61	On the catalytic mechanism and stereospecificity of <i>Escherichia coli</i> l-threonine aldolase. <i>FEBS Journal</i> , 2014, 281, 129-145.	2.2	57
62	Identification of a Small Molecule that Increases Hemoglobin Oxygen Affinity and Reduces SS Erythrocyte Sickling. <i>ACS Chemical Biology</i> , 2014, 9, 2318-2325.	1.6	44
63	Predicting the molecular interactions of CRIP1 $\alpha$ -cannabinoid 1 receptor with integrated molecular modeling approaches. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1158-1165.	1.0	13
64	Elevated sphingosine-1-phosphate promotes sickling and sickle cell disease progression. <i>Journal of Clinical Investigation</i> , 2014, 124, 2750-2761.	3.9	112
65	Novel Structurally-Modified Allosteric Effectors of Hemoglobin Exhibit Superior Antisickling Properties. <i>Blood</i> , 2014, 124, 218-218.	0.6	2
66	Crystal Structures of Influenza A Virus Matrix Protein M1: Variations on a Theme. <i>PLoS ONE</i> , 2014, 9, e109510.	1.1	32
67	Liganded Hb $\alpha$ 2 $\beta$ 2 Exhibits Antipolymer Activity Despite a T-like Quaternary Structure. <i>Blood</i> , 2014, 124, 4062-4062.	0.6	0
68	Unintended consequences? Water molecules at biological and crystallographic protein $\alpha$ -protein interfaces. <i>Computational Biology and Chemistry</i> , 2013, 47, 126-141.	1.1	14
69	Characterization of the <i>Staphylococcus aureus</i> rRNA Methyltransferase Encoded by orfX, the Gene Containing the Staphylococcal Chromosome Cassette mec (SCCmec) Insertion Site. <i>Journal of Biological Chemistry</i> , 2013, 288, 132-140.	1.6	61
70	Structure of fully liganded Hb $\alpha$ 2 $\beta$ 2 trapped in a tense conformation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2061-2071.	2.5	5
71	Methemoglobinemia In Rhesus Monkeys Due To M-Hemoglobinopathy. <i>Blood</i> , 2013, 122, 4696-4696.	0.6	0
72	Characterization of DNA Sequences Required for the CcrAB-Mediated Integration of Staphylococcal Cassette Chromosome <i>mec</i> , a <i>Staphylococcus aureus</i> Genomic Island. <i>Journal of Bacteriology</i> , 2012, 194, 486-498.	1.0	24

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73	Zebrafish larvae exposed to ginkgotoxin exhibit seizure-like behavior that is relieved by pyridoxal-5â€²-phosphate, GABA and anti-epileptic drugs. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 785-795.	1.2	29
74	Crystal Structures of Human Pyridoxal Kinase in Complex with the Neurotoxins, Ginkgotoxin and Theophylline: Insights into Pyridoxal Kinase Inhibition. <i>PLoS ONE</i> , 2012, 7, e40954.	1.1	28
75	Pyridoxal 5â€²-Phosphate Is a Slow Tight Binding Inhibitor of E. coli Pyridoxal Kinase. <i>PLoS ONE</i> , 2012, 7, e41680.	1.1	48
76	In Silico-Screening Approaches for Lead Generation: Identification of Novel Allosteric Modulators of Human-Erythrocyte Pyruvate Kinase. <i>Methods in Molecular Biology</i> , 2012, 796, 351-367.	0.4	0
77	Inhibition of Sphk1 Activity in Erythrocytes Ameliorating the Pathophysiology of Sickle Cell Disease. <i>Blood</i> , 2012, 120, 822-822.	0.6	7
78	Vitamin B6 salvage enzymes: Mechanism, structure and regulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1597-1608.	1.1	178
79	Crystallographic analysis of human hemoglobin elucidates the structural basis of the potent and dual antisickling activity of pyridyl derivatives of vanillin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 920-928.	2.5	41
80	Crystallographic analysis of human hemoglobin elucidates the structural basis of the potent and dual antisickling activity of pyridyl derivatives of vanillin. <i>Corrigendum. Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 1076-1076.	2.5	4
81	Hemoglobinâ€™ligand binding: Understanding Hb function and allostery on atomic level. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 797-809.	1.1	76
82	Hb Lake Tapawingo [ $\Gamma$ 46(CE4)Pheâ€™Ser; HBA2:c.140T&gt;C]: A New Unstable $\Gamma$ Chain Hemoglobin Variant Associated with Low Systemic Arterial Saturation. <i>Hemoglobin</i> , 2011, 35, 411-416.	0.4	0
83	Hb Baden: Structural and functional characterization. <i>American Journal of Hematology</i> , 2010, 85, 848-852.	2.0	4
84	Chlorido(2,3,7,8,12,13,17,18-octaethylporphyrinato)iron(III) dichloromethane sesquisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m733-m733.	0.2	4
85	Molecular Basis of Reduced Pyridoxine 5â€²-Phosphate Oxidase Catalytic Activity in Neonatal Epileptic Encephalopathy Disorder. <i>Journal of Biological Chemistry</i> , 2009, 284, 30949-30956.	1.6	41
86	Structure of relaxed-state human hemoglobin: insight into ligand uptake, transport and release. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 41-48.	2.5	31
87	Kinetic and structural studies of the role of the active site residue Asp235 of human pyridoxal kinase. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 12-15.	1.0	25
88	Pyridyl Derivatives of Benzaldehyde as Potential Antisickling Agents. <i>Chemistry and Biodiversity</i> , 2008, 5, 1762-1769.	1.0	38
89	Expression of Ral GTPases, Their Effectors, and Activators in Human Bladder Cancer. <i>Clinical Cancer Research</i> , 2007, 13, 3803-3813.	3.2	78
90	Identification of Novel Allosteric Regulators of Humanâ€™Erythrocyte Pyruvate Kinase. <i>Chemistry and Biodiversity</i> , 2007, 4, 2603-2617.	1.0	4

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91	Identification of a series of tetrahydroisoquinoline derivatives as potential therapeutic agents for breast cancer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 2581-2589.	1.0	23
92	Crystal Structure of human pyridoxal kinase: Structural basis of M <sup>+</sup> and M <sup>2+</sup> activation. <i>Protein Science</i> , 2007, 16, 2184-2194.	3.1	38
93	Structure of the MecI repressor from <i>Staphylococcus aureus</i> in complex with the cognate DNA operator of mecA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 320-324.	0.7	19
94	Crystal Structure of Pyridoxal Kinase from the <i>Escherichia coli</i> pdxK Gene: Implications for the Classification of Pyridoxal Kinases. <i>Journal of Bacteriology</i> , 2006, 188, 4542-4552.	1.0	56
95	5-hydroxymethyl-2-furfural modifies intracellular sickle haemoglobin and inhibits sickling of red blood cells. <i>British Journal of Haematology</i> , 2005, 128, 552-561.	1.2	211
96	Structures of R- and T-state hemoglobin Bassett: elucidating the structural basis for the low oxygen affinity of a mutant hemoglobin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 156-162.	2.5	6
97	Structure of <i>Escherichia coli</i> pyridoxine 5-phosphate oxidase in a tetragonal crystal form: insights into the mechanistic pathway of the enzyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 599-604.	2.5	11
98	Crystal Structures of the BlaI Repressor from <i>Staphylococcus aureus</i> and Its Complex with DNA: Insights into Transcriptional Regulation of the bla and mec Operons. <i>Journal of Bacteriology</i> , 2005, 187, 1833-1844.	1.0	62
99	The Enigma of the Ligated Hemoglobin End State: A Novel Quaternary Structure of Human Carbonmonoxy Hemoglobin. <i>Biochemistry</i> , 2005, 44, 8347-8359.	1.2	96
100	Properties of human and rabbit cytosolic serine hydroxymethyltransferase are changed by single nucleotide polymorphic mutations. <i>Archives of Biochemistry and Biophysics</i> , 2005, 442, 92-101.	1.4	22
101	In Vitro Antisickling Effects of Novel Pyridyl Derivatives with Enhanced Potency. <i>Blood</i> , 2005, 106, 2347-2347.	0.6	5
102	Various Drugs with or without an Antisickling Effect in the In Vitro Tests Showed a Strong Antisickling Effect in the In Vivo Studies in Transgenic Sickle Mice. <i>Blood</i> , 2005, 106, 3190-3190.	0.6	0
103	Crystal Structure of the PdxY Protein from <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2004, 186, 8074-8082.	1.0	37
104	Characterization of hemoglobin bassett (Hb Bassett), a variant with very low oxygen affinity. <i>American Journal of Hematology</i> , 2004, 77, 268-276.	2.0	25
105	Serine Hydroxymethyltransferase: Role of Glu75 and Evidence that Serine Is Cleaved by a Retroaldol Mechanism. <i>Biochemistry</i> , 2004, 43, 6865-6876.	1.2	61
106	Structural Basis for the Potent Antisickling Effect of a Novel Class of Five-Membered Heterocyclic Aldehydic Compounds. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4665-4676.	2.9	80
107	MSDD1, a Prodrug of 5-Hydroxymethyl-2-Furfural (5HMF), Prolongs the Antisickling Effect of 5HMF in Transgenic Sickle Mice. <i>Blood</i> , 2004, 104, 3576-3576.	0.6	1
108	Structure and mechanism of <i>Escherichia coli</i> pyridoxine 5-phosphate oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 76-82.	1.1	57

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109	Structure and properties of recombinant human pyridoxine 5â€²-phosphate oxidase. <i>Protein Science</i> , 2003, 12, 1455-1463.	3.1	82
110	Role of Proline Residues in the Folding of Serine Hydroxymethyltransferase. <i>Journal of Biological Chemistry</i> , 2003, 278, 31088-31094.	1.6	22
111	X-ray Crystallography of Hemoglobins. , 2003, 82, 001-019.		21
112	Active site structure and stereospecificity of <i>Escherichia coli</i> pyridoxine-5â€²-phosphate oxidase. <i>Journal of Molecular Biology</i> , 2002, 315, 385-397.	2.0	37
113	Synthesis and X-ray Studies of Chiral Allosteric Modifiers of Hemoglobin. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 1184-1195.	2.9	18
114	X-ray crystallographic analyses of symmetrical allosteric effectors of hemoglobin: compounds designed to link primary and secondary binding sites. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 634-644.	2.5	11
115	Structure of human carbonmonoxyhemoglobin at 2.16â€²: a snapshot of the allosteric transition. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2031-2037.	2.5	26
116	Control of the allosteric equilibrium of hemoglobin by cross-linking agents. <i>Protein Science</i> , 2002, 11, 1376-1383.	3.1	8
117	X-ray structure of <i>Escherichia coli</i> pyridoxine 5â€²-phosphate oxidase complexed with pyridoxal 5â€²-phosphate at 2.0 Å resolution. <i>Journal of Molecular Biology</i> , 2001, 310, 817-826.	2.0	37
118	Structure of tetragonal crystals of human erythrocyte catalase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1-7.	2.5	22
119	The X-ray structure determination of bovine carbonmonoxy hemoglobin at 2.1 Å resolution and its relationship to the quaternary structures of other hemoglobin crystal forms. <i>Protein Science</i> , 2001, 10, 1091-1099.	3.1	41
120	High-resolution crystal structure of deoxy hemoglobin complexed with a potent allosteric effector. <i>Protein Science</i> , 2001, 10, 951-957.	3.1	60
121	Structure of human erythrocyte catalase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 241-245.	2.5	55
122	X-ray structure of <i>Escherichia coli</i> pyridoxine 5â€²-phosphate oxidase complexed with FMN at 1.8 Å resolution. <i>Structure</i> , 2000, 8, 751-762.	1.6	29
123	Synthesis and Structure~Activity Relationships of Chiral Allosteric Modifiers of Hemoglobin#. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4726-4737.	2.9	22
124	Models of the Cytochromes. Axial Ligand Orientation and Complex Stability in Iron(II) Porphyrinates: The Case of the Noninteracting d~Orbitals. <i>Journal of the American Chemical Society</i> , 1997, 119, 9438-9448.	6.6	84
125	The transactivation region of the Fis protein that controls site-specific DNA inversion contains extended mobile beta -hairpin arms. <i>EMBO Journal</i> , 1997, 16, 6860-6873.	3.5	52
126	The crystal structure of the immunity protein of colicin E7 suggests a possible colicin-interacting surface.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 6437-6442.	3.3	51



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127	Crystallization and preliminary X-ray crystallographic analysis of ImmE7 protein of colicin E7. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 23, 588-590.	1.5	3
128	How Allosteric Effectors Can Bind to the Same Protein Residue and Produce Opposite Shifts in the Allosteric Equilibrium. <i>Biochemistry</i> , 1995, 34, 15006-15020.	1.2	44
129	Bisaldehyde Allosteric Effectors as Molecular Ratchets and Probes. <i>Biochemistry</i> , 1995, 34, 15021-15036.	1.2	36
130	Axial Ligand Orientation in Iron(III) Porphyrinates: Effect of Axial $\pi$ -Acceptors. Characterization of the Low-Spin Complex $[\text{Fe}(\text{TPP})(4\text{-CNPY})_2]\text{ClO}_4$ . <i>Journal of the American Chemical Society</i> , 1994, 116, 7760-7770.	6.6	164
131	Synthesis, Structure, and Characterization of Five-Coordinate Aquo(octaethylporphinato)iron(III) Perchlorate. <i>Inorganic Chemistry</i> , 1994, 33, 1319-1324.	1.9	30
132	The effect of axial $\pi$ -acceptor ligands in iron(III) porphyrinates. Characterization of the low-spin derivative $[\text{Fe}(\text{TPP})(4\text{-CNPY})_2]\text{ClO}_4$ , a heme complex with an axial EPR spectrum.. <i>Journal of Inorganic Biochemistry</i> , 1993, 51, 164.	1.5	0
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134	Characterization of iron octaethylporphyrin $\pi$ -cation radicals. <i>Inorganic Chemistry</i> , 1992, 31, 939-941.	1.9	33
135	New class of bridged diiron(III) complexes with a single hydroxo bridge. The preparation and structure of $(\mu\text{-hydroxo})\text{bis}(\text{octaethylporphinato})\text{iron}(\text{III})$ perchlorate. <i>Journal of the American Chemical Society</i> , 1992, 114, 4420-4421.	6.6	101
136	Models of the cytochromes b. Control of axial ligand orientation with a hindered porphyrin system. <i>Journal of the American Chemical Society</i> , 1991, 113, 5497-5510.	6.6	153
137	Models of cytochromes b. Attempts to control axial ligand orientation with a "hindered" porphyrin system. <i>Inorganic Chemistry</i> , 1991, 30, 1643-1650.	1.9	68
138	Characterization of the admixed intermediate-spin complex bis(3-cyanopyridine)(octaethylporphinato)iron(III) perchlorate. <i>Inorganica Chimica Acta</i> , 1991, 184, 251-258.	1.2	10
139	Molecular structure of bis(1-methylimidazole)(meso-tetraphenylporphinato)iron(III) perchlorate. <i>Inorganica Chimica Acta</i> , 1990, 178, 261-267.	1.2	44
140	Axial ligand orientation in iron(II) porphyrinates. Preparation and characterization of low-spin bis(imidazole)(tetraphenylporphyrinato)iron(II) complexes. <i>Inorganic Chemistry</i> , 1990, 29, 626-633.	1.9	62