

S Samar Hasnain

List of Publications by Year in descending order

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79
papers

3,558
citations

147801

31
h-index

144013

57
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84
all docs

84
docs citations

84
times ranked

3989
citing authors

#	ARTICLE	IF	CITATIONS
1	Amyloid-like filaments and water-filled nanotubes formed by SOD1 mutant proteins linked to familial ALS. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 461-467.	8.2	311
2	The Structure of Holo and Metal-deficient Wild-type Human Cu, Zn Superoxide Dismutase and its Relevance to Familial Amyotrophic Lateral Sclerosis. <i>Journal of Molecular Biology</i> , 2003, 328, 877-891.	4.2	222
3	Dimer destabilization in superoxide dismutase may result in disease-causing properties: Structures of motor neuron disease mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5976-5981.	7.1	198
4	Atomic resolution structures of resting-state, substrate- and product-complexed Cu-nitrite reductase provide insight into catalytic mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12041-12046.	7.1	173
5	Variable Metallation of Human Superoxide Dismutase: Atomic Resolution Crystal Structures of Cu ²⁺ Zn, Zn ²⁺ Zn and As-isolated Wild-type Enzymes. <i>Journal of Molecular Biology</i> , 2006, 356, 1152-1162.	4.2	156
6	Inhibition mechanism of SARS-CoV-2 main protease by ebselen and its derivatives. <i>Nature Communications</i> , 2021, 12, 3061.	12.8	149
7	Transport of gabapentin by LAT1 (SLC7A5). <i>Biochemical Pharmacology</i> , 2013, 85, 1672-1683.	4.4	120
8	The Structure of Human Extracellular Copper ²⁺ Zinc Superoxide Dismutase at 1.7 Å... Resolution: Insights into Heparin and Collagen Binding. <i>Journal of Molecular Biology</i> , 2009, 388, 310-326.	4.2	104
9	Ligand binding and aggregation of pathogenic SOD1. <i>Nature Communications</i> , 2013, 4, 1758.	12.8	90
10	Antimalarial 4(1H)-pyridones bind to the Q site of cytochrome <i>b_c1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 755-760.	7.1	90
11	Structures of the G85R Variant of SOD1 in Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 16169-16177.	3.4	85
12	Atomic Resolution Structures of Native Copper Nitrite Reductase from <i>Alcaligenes xylosoxidans</i> and the Active Site Mutant Asp92Glu. <i>Journal of Molecular Biology</i> , 2003, 328, 429-438.	4.2	83
13	Crystallography with Online Optical and X-ray Absorption Spectroscopies Demonstrates an Ordered Mechanism in Copper Nitrite Reductase. <i>Journal of Molecular Biology</i> , 2008, 378, 353-361.	4.2	82
14	Structural and biophysical properties of metal-free pathogenic SOD1 mutants A4V and G93A. <i>Archives of Biochemistry and Biophysics</i> , 2009, 492, 40-47.	3.0	74
15	Structure of Fully Reduced Bovine Copper Zinc Superoxide Dismutase at 1.15 Å... <i>Structure</i> , 2003, 11, 937-946.	3.3	73
16	The cysteine-reactive small molecule ebselen facilitates effective SOD1 maturation. <i>Nature Communications</i> , 2018, 9, 1693.	12.8	71
17	Disease causing mutants of TDP-43 nucleic acid binding domains are resistant to aggregation and have increased stability and half-life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4309-4314.	7.1	68
18	Structures of protein ²⁺ protein complexes involved in electron transfer. <i>Nature</i> , 2013, 496, 123-126.	27.8	65

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19	Proton-Coupled Electron Transfer in the Catalytic Cycle of <i>Alcaligenes xylosoxidans</i> Copper-Dependent Nitrite Reductase. <i>Biochemistry</i> , 2011, 50, 4121-4131.	2.5	64
20	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. <i>Nature Communications</i> , 2014, 5, 3798.	12.8	61
21	Modulation of LAT1 (SLC7A5) transporter activity and stability by membrane cholesterol. <i>Scientific Reports</i> , 2017, 7, 43580.	3.3	59
22	Serial crystallography captures enzyme catalysis in copper nitrite reductase at atomic resolution from one crystal. <i>IUCrJ</i> , 2016, 3, 271-281.	2.2	56
23	Genomic analysis reveals widespread occurrence of new classes of copper nitrite reductases. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 1119-1127.	2.6	54
24	The biophysics of superoxide dismutase-1 and amyotrophic lateral sclerosis. <i>Quarterly Reviews of Biophysics</i> , 2019, 52, e12.	5.7	51
25	Demonstration of Proton-coupled Electron Transfer in the Copper-containing Nitrite Reductases. <i>Journal of Biological Chemistry</i> , 2009, 284, 25973-25983.	3.4	50
26	Biochemical and crystallographic studies of the Met144Ala, Asp92Asn and His254Phe mutants of the nitrite reductase from <i>Alcaligenes xylosoxidans</i> provide insight into the enzyme mechanism. <i>Journal of Molecular Biology</i> , 2002, 316, 51-64.	4.2	39
27	Architecture of the complete oxygen-sensing FixL-FixJ two-component signal transduction system. <i>Science Signaling</i> , 2018, 11, .	3.6	38
28	Molecular recognition and maturation of SOD1 by its evolutionarily destabilised cognate chaperone hCCS. <i>PLoS Biology</i> , 2019, 17, e3000141.	5.6	38
29	Impact of residues remote from the catalytic centre on enzyme catalysis of copper nitrite reductase. <i>Nature Communications</i> , 2014, 5, 4395.	12.8	36
30	Structure and function study of the complex that synthesizes <i>S</i> -adenosylmethionine. <i>IUCrJ</i> , 2014, 1, 240-249.	2.2	36
31	The expanding toolkit for structural biology: synchrotrons, X-ray lasers and cryoEM. <i>IUCrJ</i> , 2019, 6, 167-177.	2.2	36
32	Crystallography captures catalytic steps in human methionine adenosyltransferase enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2104-2109.	7.1	35
33	A faulty interaction between SOD1 and hCCS in neurodegenerative disease. <i>Scientific Reports</i> , 2016, 6, 27691.	3.3	34
34	Structural Discovery of Small Molecule Binding Sites in Cu ²⁺ Zn Human Superoxide Dismutase Familial Amyotrophic Lateral Sclerosis Mutants Provides Insights for Lead Optimization. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1402-1406.	6.4	31
35	Novel Selenium-based compounds with therapeutic potential for SOD1-linked amyotrophic lateral sclerosis. <i>EBioMedicine</i> , 2020, 59, 102980.	6.1	31
36	Distal-to-Proximal NO Conversion in Hemoproteins: The Role of the Proximal Pocket. <i>Journal of Molecular Biology</i> , 2011, 405, 395-409.	4.2	30

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37	Ebselen as template for stabilization of A4V mutant dimer for motor neuron disease therapy. <i>Communications Biology</i> , 2020, 3, 97.	4.4	30
38	Potent Antimalarial 2-Pyrazolyl Quinolone 1 (Q_i) Inhibitors with Improved Drug-like Properties. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1205-1210.	2.8	28
39	An unprecedented dioxygen species revealed by serial femtosecond rotation crystallography in copper nitrite reductase. <i>IUCr</i> , 2018, 5, 22-31.	2.2	27
40	Enzyme catalysis captured using multiple structures from one crystal at varying temperatures. <i>IUCr</i> , 2018, 5, 283-292.	2.2	26
41	X-ray structure of a blue copper nitrite reductase at high pH and in copper-free form at 1.9 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1110-1118.	2.5	25
42	An unprecedented insight into the catalytic mechanism of copper nitrite reductase from atomic-resolution and damage-free structures. <i>Science Advances</i> , 2021, 7, .	10.3	25
43	Identification of the Proton Channel to the Active Site Type 2 Cu Center of Nitrite Reductase: Structural and Enzymatic Properties of the His254Phe and Asn90Ser Mutants. <i>Biochemistry</i> , 2008, 47, 13547-13553.	2.5	24
44	Laser flash photolysis indicates that internal electron transfer is triggered by proton uptake by <i>Alcaligenes xylosoxidans</i> copper-dependent nitrite reductase. <i>FEBS Journal</i> , 2012, 279, 2174-2181.	4.7	24
45	Catalytically important damage-free structures of a copper nitrite reductase obtained by femtosecond X-ray laser and room-temperature neutron crystallography. <i>IUCr</i> , 2019, 6, 761-772.	2.2	24
46	X-ray and cryo-EM structures of inhibitor-bound cytochrome 1 complexes for structure-based drug discovery. <i>IUCr</i> , 2018, 5, 200-210.	2.2	23
47	The structural plasticity of the human copper chaperone for SOD1: insights from combined size-exclusion chromatographic and solution X-ray scattering studies. <i>Biochemical Journal</i> , 2011, 439, 39-44.	3.7	22
48	Characterization of the quinol-dependent nitric oxide reductase from the pathogen <i>Neisseria meningitidis</i> , an electrogenic enzyme. <i>Scientific Reports</i> , 2018, 8, 3637.	3.3	22
49	A Distal Pocket Leu Residue Inhibits the Binding of O_2 and NO at the Distal Heme Site of Cytochrome c . <i>Journal of the American Chemical Society</i> , 2012, 134, 1461-1463.	13.7	21
50	Structural Evidence for a Copper-Bound Carbonate Intermediate in the Peroxidase and Dismutase Activities of Superoxide Dismutase. <i>PLoS ONE</i> , 2012, 7, e44811.	2.5	20
51	Modulation of NO binding to cytochrome c by distal and proximal haem pocket residues. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 531-540.	2.6	19
52	Purification and Structural Characterization of Aggregation-Prone Human TDP-43 Involved in Neurodegenerative Diseases. <i>IScience</i> , 2020, 23, 101159.	4.1	19
53	Fingerprinting redox and ligand states in haemprotein crystal structures using resonance Raman spectroscopy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1289-1296.	2.5	18
54	Unexpected Roles of a Tether Harboring a Tyrosine Gatekeeper Residue in Modular Nitrite Reductase Catalysis. <i>ACS Catalysis</i> , 2019, 9, 6087-6099.	11.2	17

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55	LAT1 (SLC7A5) and CD98hc (SLC3A2) complex dynamics revealed by single-particle cryo-EM. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 660-669.	2.3	16
56	Characterization of a novel copper-haem <i>c</i> dissimilatory nitrite reductase from <i>Ralstonia pickettii</i> . <i>Biochemical Journal</i> , 2012, 444, 219-226.	3.7	15
57	Dimeric structures of quinol-dependent nitric oxide reductases (qNORs) revealed by cryo-electron microscopy. <i>Science Advances</i> , 2019, 5, eaax1803.	10.3	14
58	Fresh insight to functioning of selected enzymes of the nitrogen cycle. <i>Current Opinion in Chemical Biology</i> , 2016, 31, 103-112.	6.1	13
59	Reverse protein engineering of a novel 4 α -domain copper nitrite reductase reveals functional regulation by protein-protein interaction. <i>FEBS Journal</i> , 2021, 288, 262-280.	4.7	12
60	The application of hybrid pixel detectors for in-house SAXS instrumentation with a view to combined chromatographic operation. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 383-385.	2.4	10
61	Identification of a tyrosine switch in copper-haem nitrite reductases. <i>IUCr</i> , 2018, 5, 510-518.	2.2	10
62	The active form of quinol-dependent nitric oxide reductase from <i>Neisseria meningitidis</i> is a dimer. <i>IUCr</i> , 2020, 7, 404-415.	2.2	10
63	Control and regulation of S-adenosylmethionine biosynthesis by the regulatory $\hat{1}^2$ subunit and quinolone-based compounds. <i>FEBS Journal</i> , 2019, 286, 2135-2154.	4.7	9
64	Nature of the copper-nitrosyl intermediates of copper nitrite reductases during catalysis. <i>Chemical Science</i> , 2020, 11, 12485-12492.	7.4	6
65	New horizons in structure-function studies of copper nitrite reductase. <i>Coordination Chemistry Reviews</i> , 2022, 460, 214463.	18.8	6
66	Structures of substrate- and product-bound forms of a multi-domain copper nitrite reductase shed light on the role of domain tethering in protein complexes. <i>IUCr</i> , 2020, 7, 557-565.	2.2	5
67	Parasitological profiling shows 4(1H)-quinolone derivatives as new lead candidates for malaria. <i>European Journal of Medicinal Chemistry Reports</i> , 2021, 3, 100012.	1.4	5
68	Structural basis of the dominant inheritance of hypermethioninemia associated with the Arg264His mutation in the <i>MAT1A</i> gene. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 594-607.	2.3	5
69	100 years of crystallography: the IUCr launches a comprehensive open-access journal, <i>IUCr</i> . <i>IUCr</i> , 2014, 1, 1-2.	2.2	3
70	Frontiers in metalloprotein crystallography and cryogenic electron microscopy. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102420.	5.7	3
71	Synchrotron science in the UK: NINA, the SRS and Diamond. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190147.	3.4	2
72	John C. H. Spence (1946-2021). <i>IUCr</i> , 2021, 8, 705-708.	2.2	2

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73	Impact and influence of crystallography across the sciences. IUCrj, 2016, 3, 389-390.	2.2	2
74	IUCrjcelebrates its first year of publication. IUCrj, 2015, 2, 1-2.	2.2	1
75	Biophysical methods: structure, function and dynamics studies of macromolecular assemblies using electrons, lasers, neutrons and X-rays. Current Opinion in Structural Biology, 2008, 18, 577-580.	5.7	0
76	Acta E transforms from Structure Reports Online to Crystallographic Communications. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 1-2.	0.2	0
77	Seventy years of publications. IUCrj, 2017, 4, 512-513.	2.2	0
78	Seventy years of publications. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 652-653.	0.5	0
79	Hirofumi Kamitsubo (1933â€“2017). Journal of Synchrotron Radiation, 2018, 25, 304-305.	2.4	0