

# 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  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3989  
citing authors

#	ARTICLE	IF	CITATIONS
1	New horizons in structure-function studies of copper nitrite reductase. <i>Coordination Chemistry Reviews</i> , 2022, 460, 214463.	18.8	6
2	Frontiers in metalloprotein crystallography and cryogenic electron microscopy. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102420.	5.7	3
3	Reverse protein engineering of a novel 4â€domain copper nitrite reductase reveals functional regulation by proteinâ€protein interaction. <i>FEBS Journal</i> , 2021, 288, 262-280.	4.7	12
4	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
5	Inhibition mechanism of SARS-CoV-2 main protease by ebselen and its derivatives. <i>Nature Communications</i> , 2021, 12, 3061.	12.8	149
6	John C. H. Spence (1946â€2021). <i>IUCr</i> , 2021, 8, 705-708.	2.2	2
7	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
8	Nature of the copper-nitrosyl intermediates of copper nitrite reductases during catalysis. <i>Chemical Science</i> , 2020, 11, 12485-12492.	7.4	6
9	Novel Selenium-based compounds with therapeutic potential for SOD1-linked amyotrophic lateral sclerosis. <i>EBioMedicine</i> , 2020, 59, 102980.	6.1	31
10	Ebselen as template for stabilization of A4V mutant dimer for motor neuron disease therapy. <i>Communications Biology</i> , 2020, 3, 97.	4.4	30
11	Purification and Structural Characterization of Aggregation-Prone Human TDP-43 Involved in Neurodegenerative Diseases. <i>IScience</i> , 2020, 23, 101159.	4.1	19
12	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
13	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
14	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
15	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
16	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
17	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
18	Molecular recognition and maturation of SOD1 by its evolutionarily destabilised cognate chaperone hCCS. <i>PLoS Biology</i> , 2019, 17, e3000141.	5.6	38

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19	Control and regulation of S-Adenosylmethionine biosynthesis by the regulatory $\hat{I}^2$ subunit and quinolone-based compounds. FEBS Journal, 2019, 286, 2135-2154.	4.7	9
20	Dimeric structures of quinol-dependent nitric oxide reductases (qNORs) revealed by cryo-electron microscopy. Science Advances, 2019, 5, eaax1803.	10.3	14
21	The biophysics of superoxide dismutase-1 and amyotrophic lateral sclerosis. Quarterly Reviews of Biophysics, 2019, 52, e12.	5.7	51
22	The expanding toolkit for structural biology: synchrotrons, X-ray lasers and cryoEM. IUCrJ, 2019, 6, 167-177.	2.2	36
23	LAT1 (SLC7A5) and CD98hc (SLC3A2) complex dynamics revealed by single-particle cryo-EM. Acta Crystallographica Section D: Structural Biology, 2019, 75, 660-669.	2.3	16
24	Architecture of the complete oxygen-sensing FixL-FixJ two-component signal transduction system. Science Signaling, 2018, 11, .	3.6	38
25	The cysteine-reactive small molecule ebselen facilitates effective SOD1 maturation. Nature Communications, 2018, 9, 1693.	12.8	71
26	Potent Antimalarial 2-Pyrazolyl Quinolone $Q_{11}$ Inhibitors with Improved Drug-like Properties. ACS Medicinal Chemistry Letters, 2018, 9, 1205-1210.	2.8	28
27	X-ray and cryo-EM structures of inhibitor-bound cytochrome $c_{11}$ complexes for structure-based drug discovery. IUCrJ, 2018, 5, 200-210.	2.2	23
28	Characterization of the quinol-dependent nitric oxide reductase from the pathogen Neisseria meningitidis, an electrogenic enzyme. Scientific Reports, 2018, 8, 3637.	3.3	22
29	An unprecedented dioxygen species revealed by serial femtosecond rotation crystallography in copper nitrite reductase. IUCrJ, 2018, 5, 22-31.	2.2	27
30	Enzyme catalysis captured using multiple structures from one crystal at varying temperatures. IUCrJ, 2018, 5, 283-292.	2.2	26
31	Identification of a tyrosine switch in copper-haem nitrite reductases. IUCrJ, 2018, 5, 510-518.	2.2	10
32	Hirokichi Kamitsubo (1933-2017). Journal of Synchrotron Radiation, 2018, 25, 304-305.	2.4	0
33	Modulation of LAT1 (SLC7A5) transporter activity and stability by membrane cholesterol. Scientific Reports, 2017, 7, 43580.	3.3	59
34	Seventy years of publications. IUCrJ, 2017, 4, 512-513.	2.2	0
35	Seventy years of publications. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 652-653.	0.5	0
36	Serial crystallography captures enzyme catalysis in copper nitrite reductase at atomic resolution from one crystal. IUCrJ, 2016, 3, 271-281.	2.2	56

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37	A faulty interaction between SOD1 and hCCS in neurodegenerative disease. <i>Scientific Reports</i> , 2016, 6, 27691.	3.3	34
38	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
39	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
40	Impact and influence of crystallography across the sciences. <i>IUCrJ</i> , 2016, 3, 389-390.	2.2	2
41	Antimalarial 4(1H)-pyridones bind to the Q <sub>i</sub> site of cytochrome <i>bc<sub>1</sub></i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 755-760.	7.1	90
42	<i>IUCrJ</i> celebrates its first year of publication. <i>IUCrJ</i> , 2015, 2, 1-2.	2.2	1
43	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
44	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
45	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
46	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
47	Acta E transforms from Structure Reports Online to Crystallographic Communications. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, 1-2.	0.2	0
48	Structure and function study of the complex that synthesizes <i>S</i> -adenosylmethionine. <i>IUCrJ</i> , 2014, 1, 240-249.	2.2	36
49	100 years of crystallography: the IUCr launches a comprehensive open-access journal, <i>IUCrJ</i> . <i>IUCrJ</i> , 2014, 1, 1-2.	2.2	3
50	Transport of gabapentin by LAT1 (SLC7A5). <i>Biochemical Pharmacology</i> , 2013, 85, 1672-1683.	4.4	120
51	Structures of protein-protein complexes involved in electron transfer. <i>Nature</i> , 2013, 496, 123-126.	27.8	65
52	Ligand binding and aggregation of pathogenic SOD1. <i>Nature Communications</i> , 2013, 4, 1758.	12.8	90
53	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
54	Characterization of a novel copper-haem <i>dissimilatory nitrite reductase</i> from <i>Ralstonia pickettii</i> . <i>Biochemical Journal</i> , 2012, 444, 219-226.	3.7	15

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55	A Distal Pocket Leu Residue Inhibits the Binding of O <sub>2</sub> and NO at the Distal Heme Site of Cytochrome c. Journal of the American Chemical Society, 2012, 134, 1461-1463.	13.7	21
56	Laser-flash photolysis indicates that internal electron transfer is triggered by proton uptake by <i>Alcaligenes xylosoxidans</i> copper-dependent nitrite reductase. FEBS Journal, 2012, 279, 2174-2181.	4.7	24
57	Structural Evidence for a Copper-Bound Carbonate Intermediate in the Peroxidase and Dismutase Activities of Superoxide Dismutase. PLoS ONE, 2012, 7, e44811.	2.5	20
58	The structural plasticity of the human copper chaperone for SOD1: insights from combined size-exclusion chromatographic and solution X-ray scattering studies. Biochemical Journal, 2011, 439, 39-44.	3.7	22
59	Proton-Coupled Electron Transfer in the Catalytic Cycle of <i>Alcaligenes xylosoxidans</i> Copper-Dependent Nitrite Reductase. Biochemistry, 2011, 50, 4121-4131.	2.5	64
60	Distal-to-Proximal NO Conversion in Hemoproteins: The Role of the Proximal Pocket. Journal of Molecular Biology, 2011, 405, 395-409.	4.2	30
61	Structural Discovery of Small Molecule Binding Sites in Cu <sup>2+</sup> Zn Human Superoxide Dismutase Familial Amyotrophic Lateral Sclerosis Mutants Provides Insights for Lead Optimization. Journal of Medicinal Chemistry, 2010, 53, 1402-1406.	6.4	31
62	Demonstration of Proton-coupled Electron Transfer in the Copper-containing Nitrite Reductases. Journal of Biological Chemistry, 2009, 284, 25973-25983.	3.4	50
63	The Structure of Human Extracellular Copper-Zinc Superoxide Dismutase at 1.7Å... Resolution: Insights into Heparin and Collagen Binding. Journal of Molecular Biology, 2009, 388, 310-326.	4.2	104
64	Structural and biophysical properties of metal-free pathogenic SOD1 mutants A4V and G93A. Archives of Biochemistry and Biophysics, 2009, 492, 40-47.	3.0	74
65	Modulation of NO binding to cytochrome c by distal and proximal haem pocket residues. Journal of Biological Inorganic Chemistry, 2008, 13, 531-540.	2.6	19
66	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
67	Crystallography with Online Optical and X-ray Absorption Spectroscopies Demonstrates an Ordered Mechanism in Copper Nitrite Reductase. Journal of Molecular Biology, 2008, 378, 353-361.	4.2	82
68	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. Biochemistry, 2008, 47, 13547-13553.	2.5	24
69	Structures of the G85R Variant of SOD1 in Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2008, 283, 16169-16177.	3.4	85
70	Genomic analysis reveals widespread occurrence of new classes of copper nitrite reductases. Journal of Biological Inorganic Chemistry, 2007, 12, 1119-1127.	2.6	54
71	Variable Metallation of Human Superoxide Dismutase: Atomic Resolution Crystal Structures of Cu <sup>2+</sup> Zn, Zn <sup>2+</sup> Zn and As-isolated Wild-type Enzymes. Journal of Molecular Biology, 2006, 356, 1152-1162.	4.2	156
72	Atomic resolution structures of resting-state, substrate- and product-complexed Cu-nitrite reductase provide insight into catalytic mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12041-12046.	7.1	173

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73	Dimer destabilization in superoxide dismutase may result in disease-causing properties: Structures of motor neuron disease mutants. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5976-5981.	7.1	198
74	Structure of Fully Reduced Bovine Copper Zinc Superoxide Dismutase at 1.15 Å... Structure, 2003, 11, 937-946.	3.3	73
75	Amyloid-like filaments and water-filled nanotubes formed by SOD1 mutant proteins linked to familial ALS. Nature Structural and Molecular Biology, 2003, 10, 461-467.	8.2	311
76	Atomic Resolution Structures of Native Copper Nitrite Reductase from Alcaligenes xylosoxidans and the Active Site Mutant Asp92Glu. Journal of Molecular Biology, 2003, 328, 429-438.	4.2	83
77	The Structure of Holo and Metal-deficient Wild-type Human Cu, Zn Superoxide Dismutase and its Relevance to Familial Amyotrophic Lateral Sclerosis. Journal of Molecular Biology, 2003, 328, 877-891.	4.2	222
78	Biochemical and crystallographic studies of the Met144Ala, Asp92Asn and His254Phe mutants of the nitrite reductase from Alcaligenes xylosoxidans provide insight into the enzyme mechanism. Journal of Molecular Biology, 2002, 316, 51-64.	4.2	39
79	X-ray structure of a blue copper nitrite reductase at high pH and in copper-free form at 1.9 Å... resolution. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1110-1118.	2.5	25