Andrey Kovalevsky

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/9316831/andrey-kovalevsky-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116 3,610 56 33 h-index g-index citations papers 206 6.9 4,229 5.32 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
116	Hit Expansion of a Noncovalent SARS-CoV-2 Main Protease Inhibitor ACS Pharmacology and Translational Science, 2022, 5, 255-265	5.9	1
115	Covalent narlaprevir- and boceprevir-derived hybrid inhibitors of SARS-CoV-2 main protease <i>Nature Communications</i> , 2022 , 13, 2268	17.4	10
114	Microgravity crystallization of perdeuterated tryptophan synthase for neutron diffraction <i>Npj</i> Microgravity, 2022 , 8, 13	5.3	
113	High-Throughput Virtual Screening and Validation of a SARS-CoV-2 Main Protease Noncovalent Inhibitor. <i>Journal of Chemical Information and Modeling</i> , 2021 ,	6.1	12
112	Michaelis-like complex of SARS-CoV-2 main protease visualized by room-temperature X-ray crystallography. <i>IUCrJ</i> , 2021 , 8, 973-979	4.7	5
111	Structural, Electronic, and Electrostatic Determinants for Inhibitor Binding to Subsites S1 and S2 in SARS-CoV-2 Main Protease. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 17366-17383	8.3	7
110	Direct Observation of Protonation State Modulation in SARS-CoV-2 Main Protease upon Inhibitor Binding with Neutron Crystallography. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 4991-5000	8.3	15
109	Capturing the Catalytic Proton of Dihydrofolate Reductase: Implications for General Acid-Base Catalysis. <i>ACS Catalysis</i> , 2021 , 11, 5873-5884	13.1	0
108	Room temperature crystallography of human acetylcholinesterase bound to a substrate analogue 4K-TMA: Towards a neutron structure. <i>Current Research in Structural Biology</i> , 2021 , 3, 206-215	2.8	2
107	Characterization and structural analysis of a thermophilic GH11 xylanase from compost metatranscriptome. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 7757-7767	5.7	2
106	Covalent inhibition of hAChE by organophosphates causes homodimer dissociation through long-range allosteric effects. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101007	5.4	2
105	Revertant mutation V48G alters conformational dynamics of highly drug resistant HIV protease PRS17. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 108, 108005	2.8	0
104	Inhibitor binding influences the protonation states of histidines in SARS-CoV-2 main protease <i>Chemical Science</i> , 2021 , 12, 1513-1527	9.4	29
103	Supercomputer-Based Ensemble Docking Drug Discovery Pipeline with Application to Covid-19. Journal of Chemical Information and Modeling, 2020 , 60, 5832-5852	6.1	71
102	Visualizing Tetrahedral Oxyanion Bound in HIV-1 Protease Using Neutrons: Implications for the Catalytic Mechanism and Drug Design. <i>ACS Omega</i> , 2020 , 5, 11605-11617	3.9	2
101	Structural plasticity of SARS-CoV-2 3CL M active site cavity revealed by room temperature X-ray crystallography. <i>Nature Communications</i> , 2020 , 11, 3202	17.4	185
100	Protein kinase A in the neutron beam: Insights for catalysis from directly observing protons. <i>Methods in Enzymology</i> , 2020 , 634, 311-331	1.7	

(2018-2020)

Rational design, synthesis, and evaluation of uncharged, "smart" bis-oxime antidotes of 99 organophosphate-inhibited human acetylcholinesterase. Journal of Biological Chemistry, **2020**, 295, $4079^{5}4092^{16}$ Pyridoxal 5@phosphate dependent reactions: Analyzing the mechanism of aspartate 98 1.7 aminotransferase. Methods in Enzymology, 2020, 634, 333-359 Room-temperature X-ray crystallography reveals the oxidation and reactivity of cysteine residues in 97 4.7 27 SARS-CoV-2 3CL M: insights into enzyme mechanism and drug design. IUCrJ, 2020, 7, Room-temperature neutron and X-ray data collection of 3CL M from SARS-CoV-2. Acta 96 1.1 13 Crystallographica Section F, Structural Biology Communications, 2020, 76, 483-487 Studying the Role of a Single Mutation of a Family 11 Glycoside Hydrolase Using High-Resolution 95 3.9 1 X-ray Crystallography. *Protein Journal*, **2020**, 39, 671-680 IMAGINE: The neutron protein crystallography beamline at the high flux isotope reactor. Methods in 94 1.7 9 Enzymology, **2020**, 634, 69-85 Proton transfer and drug binding details revealed in neutron diffraction studies of wild-type and 93 1.7 1 drug resistant HIV-1 protease. Methods in Enzymology, 2020, 634, 257-279 Substrate Binding Stiffens Aspartate Aminotransferase by Altering the Enzyme Picosecond 92 3.9 Vibrational Dynamics. ACS Omega, 2020, 5, 18787-18797 Inhibitor binding influences the protonation states of histidines in SARS-CoV-2 main protease 2020, 2 91 Pressure and Temperature Effects on the Formation of Aminoacrylate Intermediates of Tyrosine 90 13.1 4 Phenol-lyase Demonstrate Reaction Dynamics. ACS Catalysis, 2020, 10, 1692-1703 Unusual zwitterionic catalytic site of SARS-CoV-2 main protease revealed by neutron 89 5.4 50 crystallography. Journal of Biological Chemistry, 2020, 295, 17365-17373 Malleability of the SARS-CoV-2 3CL M Active-Site Cavity Facilitates Binding of Clinical Antivirals. 88 5.2 61 Structure, 2020, 28, 1313-1320.e3 A new crystal form of human acetylcholinesterase for exploratory room-temperature 87 5 31 crystallography studies. Chemico-Biological Interactions, 2019, 309, 108698 Productive reorientation of a bound oxime reactivator revealed in room temperature X-ray structures of native and VX-inhibited human acetylcholinesterase. Journal of Biological Chemistry, 86 5.4 **2019**, 294, 10607-10618 Zooming in on protons: Neutron structure of protein kinase A trapped in a product complex. 85 14.3 15 Science Advances, 2019, 5, eaav0482 84 Room-temperature photo-induced martensitic transformation in a protein crystal. IUCrJ, 2019, 6, 619-622-7 Neutron Crystallography Detects Differences in Protein Dynamics: Structure of the PKG II Cyclic 83 3.2 1 Nucleotide Binding Domain in Complex with an Activator. Biochemistry, 2018, 57, 1833-1837 "To Be or Not to Be" Protonated: Atomic Details of Human Carbonic Anhydrase-Clinical Drug 82 32 Complexes by Neutron Crystallography and Simulation. Structure, 2018, 26, 383-390.e3

81	Understanding the pH-Dependent Reaction Mechanism of a Glycoside Hydrolase Using High-Resolution X-ray and Neutron Crystallography. <i>ACS Catalysis</i> , 2018 , 8, 8058-8069	13.1	7
80	IMAGINE: neutrons reveal enzyme chemistry. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 778-786	5.5	19
79	Hyperconjugation Promotes Catalysis in a Pyridoxal 5?-Phosphate-Dependent Enzyme. <i>ACS Catalysis</i> , 2018 , 8, 6733-6737	13.1	11
78	The Neutron Macromolecular Crystallography Instruments at Oak Ridge National Laboratory: Advances, Challenges, and Opportunities. <i>Crystals</i> , 2018 , 8, 388	2.3	18
77	Neutron scattering in the biological sciences: progress and prospects. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 1129-1168	5.5	31
76	Temperature-Induced Replacement of Phosphate Proton with Metal Ion Captured in Neutron Structures of A-DNA. <i>Structure</i> , 2018 , 26, 1645-1650.e3	5.2	3
75	Room Temperature Neutron Crystallography of Drug Resistant HIV-1 Protease Uncovers Limitations of X-ray Structural Analysis at 100 K. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2018-2025	8.3	20
74	Direct evidence that an extended hydrogen-bonding network influences activation of pyridoxal 5@phosphate in aspartate aminotransferase. <i>Journal of Biological Chemistry</i> , 2017 , 292, 5970-5980	5.4	26
73	Neutron and Atomic Resolution X-ray Structures of a Lytic Polysaccharide Monooxygenase Reveal Copper-Mediated Dioxygen Binding and Evidence for N-Terminal Deprotonation. <i>Biochemistry</i> , 2017 , 56, 2529-2532	3.2	44
	2017, 30, 2325-2332		
72	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature</i>	17.4	41
7 ²	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature</i>	17.4	4 ¹ 7
	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature Communications</i> , 2017 , 8, 955	0.4	
71	Direct visualization of critical hydrogen atoms in a pyridoxal 5Qphosphate enzyme. <i>Nature Communications</i> , 2017 , 8, 955 Biological Structures. <i>Experimental Methods in the Physical Sciences</i> , 2017 , 49, 1-75 Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic	0.4	7
7 ¹	Direct visualization of critical hydrogen atoms in a pyridoxal 5Qphosphate enzyme. <i>Nature Communications</i> , 2017 , 8, 955 Biological Structures. <i>Experimental Methods in the Physical Sciences</i> , 2017 , 49, 1-75 Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic Residues in Concanavalin A As Revealed by Neutron Crystallography. <i>Biochemistry</i> , 2017 , 56, 4747-4750 Neutron structures of the Helicobacter pylori 5Qmethylthioadenosine nucleosidase highlight proton sharing and protonation states. <i>Proceedings of the National Academy of Sciences of the</i>	0.4	7 21
7 ¹ 7 ⁰ 69	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature Communications</i> , 2017 , 8, 955 Biological Structures. <i>Experimental Methods in the Physical Sciences</i> , 2017 , 49, 1-75 Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic Residues in Concanavalin A As Revealed by Neutron Crystallography. <i>Biochemistry</i> , 2017 , 56, 4747-4750 Neutron structures of the Helicobacter pylori 5@nethylthioadenosine nucleosidase highlight proton sharing and protonation states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13756-13761 Limitations in current acetylcholinesterase structure-based design of oxime antidotes for	0.4	7 21 25
7 ¹ 7 ⁰ 69 68	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature Communications</i> , 2017 , 8, 955 Biological Structures. <i>Experimental Methods in the Physical Sciences</i> , 2017 , 49, 1-75 Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic Residues in Concanavalin A As Revealed by Neutron Crystallography. <i>Biochemistry</i> , 2017 , 56, 4747-4750 Neutron structures of the Helicobacter pylori 5@methylthioadenosine nucleosidase highlight proton sharing and protonation states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13756-13761 Limitations in current acetylcholinesterase structure-based design of oxime antidotes for organophosphate poisoning. <i>Annals of the New York Academy of Sciences</i> , 2016 , 1378, 41-49 Visualizing the Bohr effect in hemoglobin: neutron structure of equine cyanomethemoglobin in the R state and comparison with human deoxyhemoglobin in the T state. <i>Acta Crystallographica Section</i>	0.4 3.2 11.5	7 21 25 14
71 70 69 68 67	Direct visualization of critical hydrogen atoms in a pyridoxal 5@phosphate enzyme. <i>Nature Communications</i> , 2017, 8, 955 Biological Structures. <i>Experimental Methods in the Physical Sciences</i> , 2017, 49, 1-75 Mannobiose Binding Induces Changes in Hydrogen Bonding and Protonation States of Acidic Residues in Concanavalin A As Revealed by Neutron Crystallography. <i>Biochemistry</i> , 2017, 56, 4747-4750 Neutron structures of the Helicobacter pylori 5@methylthioadenosine nucleosidase highlight proton sharing and protonation states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13756-13761 Limitations in current acetylcholinesterase structure-based design of oxime antidotes for organophosphate poisoning. <i>Annals of the New York Academy of Sciences</i> , 2016, 1378, 41-49 Visualizing the Bohr effect in hemoglobin: neutron structure of equine cyanomethemoglobin in the R state and comparison with human deoxyhemoglobin in the T state. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 892-903 Evolution and characterization of a new reversibly photoswitching chromogenic protein, Dathail. <i>Journal of Molecular Biology</i> , 2016, 428, 1776-89	0.43.211.56.55.5	7 21 25 14

63	Neutron structure of human carbonic anhydrase II in complex with methazolamide: mapping the solvent and hydrogen-bonding patterns of an effective clinical drug. <i>IUCrJ</i> , 2016 , 3, 319-325	4.7	24
62	Phosphoryl Transfer Reaction Snapshots in Crystals: INSIGHTS INTO THE MECHANISM OF PROTEIN KINASE A CATALYTIC SUBUNIT. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15538-15548	5.4	18
61	Neutron and high-resolution room-temperature X-ray data collection from crystallized lytic polysaccharide monooxygenase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 1448-52	1.1	8
60	Direct determination of protonation states and visualization of hydrogen bonding in a glycoside hydrolase with neutron crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12384-9	11.5	26
59	Protein Kinase A Catalytic Subunit Primed for Action: Time-Lapse Crystallography of Michaelis Complex Formation. <i>Structure</i> , 2015 , 23, 2331-2340	5.2	16
58	Joint neutron crystallographic and NMR solution studies of Tyr residue ionization and hydrogen bonding: Implications for enzyme-mediated proton transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5673-8	11.5	30
57	Neutron diffraction reveals hydrogen bonds critical for cGMP-selective activation: insights for cGMP-dependent protein kinase agonist design. <i>Biochemistry</i> , 2014 , 53, 6725-7	3.2	25
56	L-Arabinose binding, isomerization, and epimerization by D-xylose isomerase: X-ray/neutron crystallographic and molecular simulation study. <i>Structure</i> , 2014 , 22, 1287-1300	5.2	19
55	Metal-free cAMP-dependent protein kinase can catalyze phosphoryl transfer. <i>Biochemistry</i> , 2014 , 53, 3179-86	3.2	17
54	Engineering acidic Streptomyces rubiginosus D-xylose isomerase by rational enzyme design. <i>Protein Engineering, Design and Selection</i> , 2014 , 27, 59-64	1.9	15
53	X-ray crystallographic studies of family 11 xylanase Michaelis and product complexes: implications for the catalytic mechanism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 11-23	3	29
52	Novel complex MAD phasing and RNase H structural insights using selenium oligonucleotides. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 354-61		10
51	Toward resolving the catalytic mechanism of dihydrofolate reductase using neutron and ultrahigh-resolution X-ray crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18225-30	11.5	58
50	Preliminary joint X-ray and neutron protein crystallographic studies of ecDHFR complexed with folate and NADP+. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 814-8	1.1	7
49	The IMAGINE instrument: first neutron protein structure and new capabilities for neutron macromolecular crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 2157-60		60
48	Insights into the phosphoryl transfer catalyzed by cAMP-dependent protein kinase: an X-ray crystallographic study of complexes with various metals and peptide substrate SP20. <i>Biochemistry</i> , 2013 , 52, 3721-7	3.2	22
47	Neutron protein crystallography reveals unique details of clinical drug binding to a human target enzyme. <i>Neutron News</i> , 2013 , 24, 20-23	0.4	
46	Joint X-ray/neutron crystallographic study of HIV-1 protease with clinical inhibitor amprenavir: insights for drug design. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 5631-5	8.3	51

45	Heterologous expression, purification, crystallization and preliminary X-ray analysis of Trichoderma reesei xylanase II and four variants. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013 , 69, 320-3		2
44	Low- and room-temperature X-ray structures of protein kinase A ternary complexes shed new light on its activity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 854-60		20
43	Inhibition of D-xylose isomerase by polyols: atomic details by joint X-ray/neutron crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 1201-6		14
42	Capturing the reaction pathway in near-atomic-resolution crystal structures of HIV-1 protease. <i>Biochemistry</i> , 2012 , 51, 7726-32	3.2	10
41	Neutron diffraction of acetazolamide-bound human carbonic anhydrase II reveals atomic details of drug binding. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14726-9	16.4	84
40	Inorganic pyrophosphatase crystals from Thermococcus thioreducens for X-ray and neutron diffraction. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 1482-7		14
39	Room-temperature ultrahigh-resolution time-of-flight neutron and X-ray diffraction studies of H/D-exchanged crambin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 119-23		8
38	Direct observation of hydrogen atom dynamics and interactions by ultrahigh resolution neutron protein crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15301-6	11.5	48
37	High-resolution neutron crystallographic studies of the hydration of the coenzyme cob(II)alamin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 584-91		27
36	Preliminary joint X-ray and neutron protein crystallographic studies of endoxylanase II from the fungus Trichoderma longibrachiatum. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 283-6		5
35	Preliminary joint neutron time-of-flight and X-ray crystallographic study of human ABO(H) blood group A glycosyltransferase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 258-62		3
34	Time-of-flight neutron diffraction study of bovine Ethymotrypsin at the Protein Crystallography Station. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 587-90		1
33	Identification of the Elusive Hydronium Ion Exchanging Roles with a Proton in an Enzyme at Lower pH Values. <i>Angewandte Chemie</i> , 2011 , 123, 7662-7665	3.6	8
32	Identification of the elusive hydronium ion exchanging roles with a proton in an enzyme at lower pH values. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7520-3	16.4	60
31	Neutron structure of human carbonic anhydrase II: a hydrogen-bonded water network "switch" is observed between pH 7.8 and 10.0. <i>Biochemistry</i> , 2011 , 50, 9421-3	3.2	48
30	Amprenavir complexes with HIV-1 protease and its drug-resistant mutants altering hydrophobic clusters. <i>FEBS Journal</i> , 2010 , 277, 3699-714	5.7	100
29	Neutron structure of human carbonic anhydrase II: implications for proton transfer. <i>Biochemistry</i> , 2010 , 49, 415-21	3.2	77
28	Direct determination of protonation states of histidine residues in a 2 A neutron structure of deoxy-human normal adult hemoglobin and implications for the Bohr effect. <i>Journal of Molecular Biology</i> , 2010 , 398, 276-91	6.5	33

(2006-2010)

27	Metal ion roles and the movement of hydrogen during reaction catalyzed by D-xylose isomerase: a joint x-ray and neutron diffraction study. <i>Structure</i> , 2010 , 18, 688-99	5.2	128
26	Protonation states of histidine and other key residues in deoxy normal human adult hemoglobin by neutron protein crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1144-52		5
25	Hemoglobin redux: combining neutron and X-ray diffraction with mass spectrometry to analyse the quaternary state of oxidized hemoglobins. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1249-56		1
24	Macromolecular neutron crystallography at the Protein Crystallography Station (PCS). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1206-12		11
23	Using neutron protein crystallography to understand enzyme mechanisms. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1257-61		5
22	Design, synthesis, protein-ligand X-ray structure, and biological evaluation of a series of novel macrocyclic human immunodeficiency virus-1 protease inhibitors to combat drug resistance. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7689-705	8.3	37
21	The catalytic mechanism of an aspartic proteinase explored with neutron and X-ray diffraction. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7235-7	16.4	99
20	Effect of flap mutations on structure of HIV-1 protease and inhibition by saquinavir and darunavir. <i>Journal of Molecular Biology</i> , 2008 , 381, 102-15	6.5	69
19	Structural evidence for effectiveness of darunavir and two related antiviral inhibitors against HIV-2 protease. <i>Journal of Molecular Biology</i> , 2008 , 384, 178-92	6.5	40
18	Potent HIV-1 protease inhibitors incorporating meso-bicyclic urethanes as P2-ligands: structure-based design, synthesis, biological evaluation and protein-ligand X-ray studies. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 3703-13	3.9	14
17	Solution kinetics measurements suggest HIV-1 protease has two binding sites for darunavir and amprenavir. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6599-603	8.3	27
16	Hydrogen location in stages of an enzyme-catalyzed reaction: time-of-flight neutron structure of D-xylose isomerase with bound D-xylulose. <i>Biochemistry</i> , 2008 , 47, 7595-7	3.2	41
15	Caught in the Act: the 1.5 A resolution crystal structures of the HIV-1 protease and the I54V mutant reveal a tetrahedral reaction intermediate. <i>Biochemistry</i> , 2007 , 46, 14854-64	3.2	40
14	Anion Chain Structure Controlled Behavior of Phase Transition in Quasi-Two-Dimensional Organic Metal (EDT-TTF)4[Hg3I8]1\(\text{L} . Crystal Growth and Design, 2007, 7, 2768-2773	3.5	6
13	Atomic resolution crystal structures of HIV-1 protease and mutants V82A and I84V with saquinavir. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 67, 232-42	4.2	74
12	Synthesis, Crystal Structures, Magnetic Properties and Photoconductivity of C60 and C70 Complexes with Metal Dialkyldithiocarbamates M(R2dtc)x, where M = Cull, Cul, Agl, Znll, Cdll, Hgll, Mnll, Nill, and Ptll; R = Me, Et, and nPr. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 1881-1895	2.3	40
11	Structural aspects of two-stage dimerization in an ionic C60 complex with bis(benzene)chromium: Cr(C6H6)2.C60.C6H4Cl2. <i>Dalton Transactions</i> , 2006 , 3716-20	4.3	36
10	Mechanism of drug resistance revealed by the crystal structure of the unliganded HIV-1 protease with F53L mutation. <i>Journal of Molecular Biology</i> , 2006 , 358, 1191-9	6.5	45

9	Ultra-high resolution crystal structure of HIV-1 protease mutant reveals two binding sites for clinical inhibitor TMC114. <i>Journal of Molecular Biology</i> , 2006 , 363, 161-73	6.5	117
8	Bis[bis(3-phenylpyrazol-1-yl)(pyrazol-1-yl)methane]copper(II) bis(perchlorate) acetonitrile disolvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006 , 62, m30-2		
7	Synthesis, crystal structure and photoconductivity of the first [60]fullerene complex with metal diethyldithiocarbamate: {CuII(dedtc)2}2.C60. <i>Dalton Transactions</i> , 2005 , 1821-5	4.3	18
6	Physical and kinetic analysis of the cooperative role of metal ions in catalysis of phosphodiester cleavage by a dinuclear Zn(II) complex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1988-93	16.4	207
5	Creating nanocavities of tunable sizes: hollow helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11583-8	11.5	130
4	Photoinduced linkage isomers of transition-metal nitrosyl compounds and related complexes. <i>Chemical Reviews</i> , 2002 , 102, 861-84	68.1	372
3	First Observation of Photoinduced Nitrosyl Linkage Isomers of Iron Nitrosyl Porphyrins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7142-7143	16.4	66
2	Protonation states in SARS-CoV-2 main protease mapped by neutron crystallography		1
1	High Throughput Virtual Screening and Validation of a SARS-CoV-2 Main Protease Non-Covalent Inhihit	-O.C	0