

Victor A Streltsov

List of Publications by Year in descending order

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86
papers

3,633
citations

136950

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138484

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88
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docs citations

88
times ranked

5424
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox state and photoreduction control using X-ray spectroelectrochemical techniques – advances in design and fabrication through additive engineering. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 472-479.	2.4	2
2	Citrullination of Amyloid- β Peptides in Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3719-3732.	3.5	10
3	Substitutions at H134 and in the 430-loop region in influenza B neuraminidases can confer reduced susceptibility to multiple neuraminidase inhibitors. <i>Antiviral Research</i> , 2020, 182, 104895.	4.1	1
4	Passaging of an influenza A(H1N1)pdm09 virus in a difluoro sialic acid inhibitor selects for a novel, but unfit I106M neuraminidase mutant. <i>Antiviral Research</i> , 2019, 169, 104542.	4.1	5
5	Discovery of processive catalysis by an exo-hydrolase with a pocket-shaped active site. <i>Nature Communications</i> , 2019, 10, 2222.	12.8	20
6	Structure of an Influenza A virus N9 neuraminidase with a tetrabranchion-domain stalk. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 89-97.	0.8	7
7	Structural and Functional Analysis of Anti-Influenza Activity of 4-, 7-, 8- and 9-Deoxygenated 2,3-Difluoro- <i>N</i> -acetylneuraminic Acid Derivatives. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1921-1933.	6.4	9
8	Structural Insight into Redox Dynamics of Copper Bound N-Truncated Amyloid- β Peptides from <i>in situ</i> X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2018, 57, 11422-11435.	4.0	25
9	Lysine post-translational modification of glyceraldehyde-3-phosphate dehydrogenase regulates hepatic and systemic metabolism. <i>FASEB Journal</i> , 2017, 31, 2592-2602.	0.5	31
10	Iron, Copper, and Zinc Concentration in A β Plaques in the APP/PS1 Mouse Model of Alzheimer's Disease Correlates with Metal Levels in the Surrounding Neuropil. <i>ACS Chemical Neuroscience</i> , 2017, 8, 629-637.	3.5	107
11	Measurements of Long-range Electronic Correlations During Femtosecond Diffraction Experiments Performed on Nanocrystals of Buckminsterfullerene. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
12	Nanocrystallography measurements of early stage synthetic malaria pigment. <i>Journal of Applied Crystallography</i> , 2017, 50, 1533-1540.	4.5	11
13	X-ray laser-induced electron dynamics observed by femtosecond diffraction from nanocrystals of Buckminsterfullerene. <i>Science Advances</i> , 2016, 2, e1601186.	10.3	20
14	Whole-pattern fitting technique in serial femtosecond nanocrystallography. <i>IUCr</i> , 2016, 3, 127-138.	2.2	4
15	A library of AuNPs modified by RAFT polymers of different charge and chain length: high throughput synthesis and synchrotron XFM imaging using a zebrafish larvae model. <i>RSC Advances</i> , 2016, 6, 23550-23563.	3.6	6
16	Differential Receptor Binding and Regulatory Mechanisms for the Lymphangiogenic Growth Factors Vascular Endothelial Growth Factor (VEGF)-C and -D. <i>Journal of Biological Chemistry</i> , 2016, 291, 27265-27278.	3.4	35
17	Solution structures of chloroquine-ferriheme complexes modeled using MD simulation and investigated by EXAFS spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 2016, 154, 114-125.	3.5	14
18	Catalytic mechanism and novel receptor binding sites of human parainfluenza virus type 3 hemagglutinin-neuraminidase (hPIV3 HN). <i>Antiviral Research</i> , 2015, 123, 216-223.	4.1	15

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19	Alkoxide coordination of iron(III) protoporphyrin IX by antimalarial quinoline methanols: a key interaction observed in the solid-state and solution. <i>Dalton Transactions</i> , 2015, 44, 16767-16777.	3.3	19
20	Molecular Structures and Solvation of Free Monomeric and Dimeric Ferriheme in Aqueous Solution: Insights from Molecular Dynamics Simulations and Extended X-ray Absorption Fine Structure Spectroscopy. <i>Inorganic Chemistry</i> , 2014, 53, 10811-10824.	4.0	15
21	Unprecedented conformational flexibility revealed in the ligand-binding domains of the <i>Bovicola ovis</i> ecdysone receptor (EcR) and ultraspiracle (USP) subunits. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1954-1964.	2.5	17
22	Design of non-aggregating variants of A β peptide. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 449-454.	2.1	0
23	Naturally occurring polyphenolic inhibitors of amyloid beta aggregation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3108-3112.	2.2	76
24	Inhibition of amyloid beta-induced synaptotoxicity by a pentapeptide derived from the glycine zipper region of the neurotoxic peptide. <i>Neurobiology of Aging</i> , 2013, 34, 2805-2814.	3.1	41
25	Structural insights into the interaction of platinum-based inhibitors with the Alzheimer's disease amyloid- β peptide. <i>Chemical Communications</i> , 2013, 49, 11364.	4.1	38
26	Continuous X-ray diffractive field in protein nanocrystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 108-118.	0.3	18
27	Mechanism-Based Covalent Neuraminidase Inhibitors with Broad-Spectrum Influenza Antiviral Activity. <i>Science</i> , 2013, 340, 71-75.	12.6	175
28	Structural studies of the tethered N-terminus of the Alzheimer's disease amyloid- β peptide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1748-1758.	2.6	22
29	Ammonium hydroxide treatment of A β produces an aggregate free solution suitable for biophysical and cell culture characterization. <i>PeerJ</i> , 2013, 1, e73.	2.0	93
30	In vitro passaging of a pandemic H1N1/09 virus selects for viruses with neuraminidase mutations conferring high-level resistance to oseltamivir and peramivir, but not to zanamivir. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 1874-1883.	3.0	27
31	Preparation of human vascular endothelial growth factor-D for structural and preclinical therapeutic studies. <i>Protein Expression and Purification</i> , 2012, 82, 232-239.	1.3	15
32	Structure and Function of Ecdysone Receptors' Interactions with Ecdysteroids and Synthetic Agonists. <i>Advances in Insect Physiology</i> , 2012, 43, 299-351.	2.7	15
33	Oligomerization and toxicity of A β fusion proteins. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 477-482.	2.1	5
34	The VD1 Neutralizing Antibody to Vascular Endothelial Growth Factor-D: Binding Epitope and Relationship to Receptor Binding. <i>Journal of Molecular Biology</i> , 2011, 407, 581-593.	4.2	15
35	Isolation, kinetic analysis, and structural characterization of an antibody targeting the <i>Bacillus anthracis</i> major spore surface protein BclA. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1306-1317.	2.6	6
36	Crystal Structure of the Amyloid- β p3 Fragment Provides a Model for Oligomer Formation in Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2011, 31, 1419-1426.	3.6	99

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37	Germline humanization of a murine A β 2 antibody and crystal structure of the humanized recombinant Fab fragment. <i>Protein Science</i> , 2010, 19, 299-308.	7.6	25
38	Modelling Copper Binding to the Amyloid- β 2 Peptide in Alzheimer. <i>Australian Journal of Chemistry</i> , 2010, 63, 345.	0.9	3
39	Crystallisation of Wild-Type and Variant Forms of a Recombinant Plant Enzyme β -D-Glucan Glucohydrolase from Barley (<i>Hordeum vulgare</i> L.) and Preliminary X-ray Analysis. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2759-2769.	4.1	5
40	Structural and Functional Basis of Resistance to Neuraminidase Inhibitors of Influenza B Viruses. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6421-6431.	6.4	75
41	Hematin β -Hematin Self-Association States Involved in the Formation and Reactivity of the Malaria Parasite Pigment, Hemozoin. <i>Biochemistry</i> , 2010, 49, 6804-6811.	2.5	57
42	Structural insights into ligand β -induced activation of the insulin receptor. <i>Acta Physiologica</i> , 2008, 192, 3-9.	3.8	50
43	X-ray absorption and diffraction studies of the metal binding sites in amyloid β -peptide. <i>European Biophysics Journal</i> , 2008, 37, 257-263.	2.2	23
44	Shark IgNAR antibody mimotopes target a murine immunoglobulin through extended CDR3 loop structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 119-130.	2.6	27
45	Construction, crystal structure and application of a recombinant protein that lacks the collagen β -like region of BclA from <i>Bacillus anthracis</i> spores. <i>Biotechnology and Bioengineering</i> , 2008, 99, 774-782.	3.3	15
46	The Structure of the Amyloid- β 2 Peptide High-Affinity Copper II Binding Site in Alzheimer Disease. <i>Biophysical Journal</i> , 2008, 95, 3447-3456.	0.5	108
47	Substrate mediated reduction of copper-amyloid- β 2 complex in Alzheimer's disease. <i>Chemical Communications</i> , 2008, , 3169.	4.1	27
48	Domain I of ribosomal protein L1 is sufficient for specific RNA binding. <i>Nucleic Acids Research</i> , 2007, 35, 7389-7395.	14.5	17
49	Structure of an IgNAR-AMA1 Complex: Targeting a Conserved Hydrophobic Cleft Broadens Malarial Strain Recognition. <i>Structure</i> , 2007, 15, 1452-1466.	3.3	101
50	The insulin and EGF receptor structures: new insights into ligand-induced receptor activation. <i>Trends in Biochemical Sciences</i> , 2007, 32, 129-137.	7.5	122
51	Structure of the insulin receptor ectodomain reveals a folded-over conformation. <i>Nature</i> , 2006, 443, 218-221.	27.8	277
52	In vitro improvement of a shark IgNAR antibody by Q β 2 replicase mutation and ribosome display mimics in vivo affinity maturation. <i>Immunology Letters</i> , 2006, 107, 163-168.	2.5	34
53	Dimerisation strategies for shark IgNAR single domain antibody fragments. <i>Journal of Immunological Methods</i> , 2006, 315, 171-184.	1.4	43
54	Structure of a shark IgNAR antibody variable domain and modeling of an early-developmental isotype. <i>Protein Science</i> , 2005, 14, 2901-2909.	7.6	68

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55	Do sharks have a new antibody lineage?. <i>Immunology Letters</i> , 2005, 97, 159-160.	2.5	8
56	Crystal structure study of a λ -copper vanadium bronze, $\text{Cu}_x\text{V}_2\text{O}_5$ ($x = 0.63$), by X-ray and convergent beam electron diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 17-24.	1.8	10
57	Structural Rationale for Low-Nanomolar Binding of Transition State Mimics to a Family GH3 β -D-Glucan Glucohydrolase from Barley. <i>Biochemistry</i> , 2005, 44, 16529-16539.	2.5	42
58	Structural evidence for evolution of shark Ig new antigen receptor variable domain antibodies from a cell-surface receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12444-12449.	7.1	119
59	Synchrotron X-ray and ab initio studies of β - Si_3N_4 . <i>Acta Crystallographica Section B: Structural Science</i> , 2004, 60, 388-405.	1.8	38
60	Structure of the Haemagglutinin-neuraminidase from Human Parainfluenza Virus Type III. <i>Journal of Molecular Biology</i> , 2004, 335, 1343-1357.	4.2	200
61	Cation movement and phase transitions in KTP isostructures; X-ray study of sodium-doped KTP at 10.5 K. <i>Acta Crystallographica Section B: Structural Science</i> , 2003, 59, 353-360.	1.8	9
62	Haloalkane Dehalogenase LinB from <i>Sphingomonas paucimobilis</i> UT26: X-ray Crystallographic Studies of Dehalogenation of Brominated Substrates. <i>Biochemistry</i> , 2003, 42, 10104-10112.	2.5	43
63	A Combination Method of Charge Density Measurement in Hard Materials Using Accurate, Quantitative Electron and X-ray Diffraction: The β - Al_2O_3 Case. <i>Microscopy and Microanalysis</i> , 2003, 9, 419-427.	0.4	17
64	L22 Ribosomal Protein and Effect of Its Mutation on Ribosome Resistance to Erythromycin. <i>Journal of Molecular Biology</i> , 2002, 322, 635-644.	4.2	48
65	Synchrotron X-ray analysis of the electron density in CoF_2 and ZnF_2 . <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 128-135.	1.8	26
66	Synchrotron X-ray study of $\text{Er}_3\text{Al}_5\text{O}_{12}$ and $\text{Yb}_3\text{Al}_5\text{O}_{12}$ garnets. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 136-141.	1.8	17
67	Electron density in the sodium vanadium oxide bronze λ - $\text{Na}_x\text{V}_2\text{O}_5$ at 9 K. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 244-250.	1.8	8
68	Crystals of a mutant form of ribosomal protein L22 rendering bacterial ribosomes resistant to erythromycin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1150-1152.	2.5	1
69	Charge density analysis from complementary high energy synchrotron X-ray and electron diffraction data. <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 2109-2117.	4.0	23
70	Synchrotron X-ray analysis of RbTiOAsO_4 . <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 785-792.	1.8	10
71	Dopant positions in strontium/chromium- and barium-doped KTP, determined with synchrotron X-radiation. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 980-987.	1.8	4
72	Synchrotron X-ray study of the electron density in RFeO_3 ($\text{R} = \text{Nd}, \text{Dy}$). <i>Acta Crystallographica Section B: Structural Science</i> , 1999, 55, 1-7.	1.8	35

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73	Synchrotron X-ray analysis of the electron density in HoFe ₂ . Acta Crystallographica Section B: Structural Science, 1999, 55, 321-326.	1.8	4
74	Structure of and electron density in RbTiOAsO ₄ at 9.6 K. Acta Crystallographica Section B: Structural Science, 1999, 55, 712-720.	1.8	9
75	Synchrotron X-ray Imaging of the Electron Density in RFeO ₃ (R = Y, Ho) Using an APD Detector. Journal of Synchrotron Radiation, 1998, 5, 1309-1316.	2.4	7
76	A synchrotron X-ray study of the electron density in C-type rare earth oxides. Acta Crystallographica Section B: Structural Science, 1996, 52, 414-422.	1.8	64
77	A synchrotron X-ray study of the electron density in SmFeO ₃ . Acta Crystallographica Section B: Structural Science, 1996, 52, 406-413.	1.8	52
78	Synchrotron X-ray electron density in the layered LaOCl structure. Acta Crystallographica Section B: Structural Science, 1996, 52, 576-579.	1.8	14
79	Electron density and optical anisotropy in rhombohedral carbonates. III. Synchrotron X-ray studies of CaCO ₃ , MgCO ₃ and MnCO ₃ . Acta Crystallographica Section B: Structural Science, 1995, 51, 929-939.	1.8	155
80	A synchrotron X-ray study of the electron density in YFeO ₃ . Acta Crystallographica Section B: Structural Science, 1995, 51, 921-929.	1.8	65
81	Synchrotron X-ray study of the electron density in $\hat{\text{I}}\pm\text{-Fe}_2\text{O}_3$. Acta Crystallographica Section B: Structural Science, 1994, 50, 435-441.	1.8	140
82	Multipole analysis of the electron density in triphylite, LiFePO ₄ , using X-ray diffraction data. Acta Crystallographica Section B: Structural Science, 1993, 49, 147-153.	1.8	196
83	X-ray study of the electron density in calcite, CaCO ₃ . Acta Crystallographica Section B: Structural Science, 1993, 49, 636-641.	1.8	148
84	X-ray study of the electron density in magnesite MgCO ₃ . Acta Crystallographica Section B: Structural Science, 1993, 49, 980-984.	1.8	16
85	Electron density distribution in 3d-metal sesquioxides. Physica Status Solidi A, 1989, 115, 515-521.	1.7	2
86	Defects in Crystals under Pressure. Physica Status Solidi A, 1985, 91, 89-98.	1.7	1