

Vincent Olieric

List of Publications by Year in descending order

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79
papers

3,248
citations

201575

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161767

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88
all docs

88
docs citations

88
times ranked

5163
citing authors

#	ARTICLE	IF	CITATIONS
1	Chimeric single α -helical domains as rigid fusion protein connections for protein nanotechnology and structural biology. <i>Structure</i> , 2022, 30, 95-106.e7.	1.6	4
2	Structure–function relationship of a novel fucoside-binding fruiting body lectin from <i>Coprinopsis cinerea</i> exhibiting nematotoxic activity. <i>Glycobiology</i> , 2022, , .	1.3	2
3	Biochemical, structural, and functional studies reveal that MAB_4324c from <i>Mycobacterium abscessus</i> is an active tandem repeat <i>N</i> -acetyltransferase. <i>FEBS Letters</i> , 2022, 596, 1516-1532.	1.3	3
4	Engineering the Optical Emission and Robustness of Metal–Halide Layered Perovskites through Ligand Accommodation. <i>Advanced Materials</i> , 2021, 33, e2008004.	11.1	23
5	<i>Drosophila</i> TNFRs Grindelwald and Wengen bind Eiger with different affinities and promote distinct cellular functions. <i>Nature Communications</i> , 2021, 12, 2070.	5.8	19
6	Crystal structure of SARS-CoV-2 Orf9b in complex with human TOM70 suggests unusual virus-host interactions. <i>Nature Communications</i> , 2021, 12, 2843.	5.8	71
7	Structural basis of the membrane intramolecular transacylase reaction responsible for lyso-form lipoprotein synthesis. <i>Nature Communications</i> , 2021, 12, 4254.	5.8	6
8	Managing Growth and Dimensionality of Quasi 2D Perovskite Single-Crystalline Flakes for Tunable Excitons Orientation. <i>Advanced Materials</i> , 2021, 33, e2102326.	11.1	20
9	Tuning of the Berry curvature in 2D perovskite polaritons. <i>Nature Nanotechnology</i> , 2021, 16, 1349-1354.	15.6	38
10	Iterative Structure-Based Optimization of Short Peptides Targeting the Bacterial Sliding Clamp. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17063-17078.	2.9	8
11	Structures of lipoprotein signal peptidase II from <i>Staphylococcus aureus</i> complexed with antibiotics globomycin and myxovirescin. <i>Nature Communications</i> , 2020, 11, 140.	5.8	29
12	The human telomeric nucleosome displays distinct structural and dynamic properties. <i>Nucleic Acids Research</i> , 2020, 48, 5383-5396.	6.5	23
13	Distinctive structural properties of THB11, a pentacoordinate <i>Chlamydomonas reinhardtii</i> truncated hemoglobin with N- and C-terminal extensions. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 267-283.	1.1	2
14	One-step synthesis at room temperature of low dimensional perovskite single crystals with high optical quality. <i>Journal of Luminescence</i> , 2020, 221, 117079.	1.5	10
15	In Meso In Situ Serial X-Ray Crystallography (IMISX): A Protocol for Membrane Protein Structure Determination at the Swiss Light Source. <i>Methods in Molecular Biology</i> , 2020, 2127, 293-319.	0.4	3
16	3D-printed holders for in meso in situ fixed-target serial X-ray crystallography. <i>Journal of Applied Crystallography</i> , 2020, 53, 854-859.	1.9	7
17	The TELL automatic sample changer for macromolecular crystallography. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 860-863.	1.0	12
18	Synthesis, crystal structure, polymorphism and microscopic luminescence properties of anthracene derivative compounds. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 427-435.	0.5	9

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19	Crystal structure of the aminoglycosides <i>N</i> -acetyltransferase Eis2 from <i>Mycobacterium abscessus</i> . <i>FEBS Journal</i> , 2019, 286, 4342-4355.	2.2	14
20	Conformational adaptation of UNCG loops upon crowding. <i>Rna</i> , 2019, 25, 1522-1531.	1.6	1
21	Levantite, $KCa_3(Al_2Si_3)O_{11}(PO_4)$, a new latiumite-group mineral from the pyrometamorphic rocks of the Hatrurim Basin, Negev Desert, Israel. <i>Mineralogical Magazine</i> , 2019, 83, 713-721.	0.6	7
22	Structural basis of tubulin detyrosination by the vasohibin-SVBP enzyme complex. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 571-582.	3.6	42
23	Interaction of a Model Peptide on Gram Negative and Gram Positive Bacterial Sliding Clamps. <i>ACS Infectious Diseases</i> , 2019, 5, 1022-1034.	1.8	6
24	Long-wavelength native-SAD phasing: opportunities and challenges. <i>IUCr</i> , 2019, 6, 373-386.	1.0	22
25	A simple and versatile microfluidic device for efficient biomacromolecule crystallization and structural analysis by serial crystallography. <i>IUCr</i> , 2019, 6, 454-464.	1.0	23
26	Making routine native SAD a reality: lessons from beamline X06DA at the Swiss Light Source. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 262-271.	1.1	17
27	Crystal structure of undecaprenyl-pyrophosphate phosphatase and its role in peptidoglycan biosynthesis. <i>Nature Communications</i> , 2018, 9, 1078.	5.8	47
28	Stracherite, $BaCa_6(SiO_4)_2[(PO_4)(CO_3)]F$, the first CO_3 -bearing intercalated hexagonal antiperovskite from Negev Desert, Israel. <i>American Mineralogist</i> , 2018, 103, 1699-1706.	0.9	10
29	Aravaite, $Ba_2Ca_{18}(SiO_4)_6(PO_4)_3(CO_3)_3F_3$, modular structure and disorder of a new mineral with single and triple antiperovskite layers. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 492-501.	0.5	3
30	Fast and accurate data collection for macromolecular crystallography using the JUNGFRÄU detector. <i>Nature Methods</i> , 2018, 15, 799-804.	9.0	56
31	Structural rearrangements occurring upon cofactor binding in the <i>Mycobacterium smegmatis</i> β^2 -ketoacyl-acyl carrier protein reductase MabA. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 383-393.	1.1	6
32	CLASP Suppresses Microtubule Catastrophes through a Single TOG Domain. <i>Developmental Cell</i> , 2018, 46, 40-58.e8.	3.1	110
33	In situ serial crystallography for rapid de novo membrane protein structure determination. <i>Communications Biology</i> , 2018, 1, 124.	2.0	27
34	Molecular architecture of the multifunctional collagen lysyl hydroxylase and glycosyltransferase LH3. <i>Nature Communications</i> , 2018, 9, 3163.	5.8	46
35	Crystal structure and mechanistic basis of a functional homolog of the antigen transporter TAP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E438-E447.	3.3	67
36	Insight into the remarkable affinity and selectivity of the aminobenzosuberone scaffold for the M1 aminopeptidases family based on structure analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1413-1421.	1.5	8

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37	Role of the nucleotidyl cyclase helical domain in catalytically active dimer formation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9821-E9828.	3.3	35
38	Structural insights into the mechanism of the membrane integral N-acyltransferase step in bacterial lipoprotein synthesis. Nature Communications, 2017, 8, 15952.	5.8	52
39	Challenges and strategies for n-SAD phasing at longer X-ray wavelength. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C903-C903.	0.0	0
40	Making routine native SAD a reality. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C337-C337.	0.0	0
41	The X-ray Structures of Six Octameric RNA Duplexes in the Presence of Different Di- and Trivalent Cations. International Journal of Molecular Sciences, 2016, 17, 988.	1.8	8
42	EIGER detector: application in macromolecular crystallography. Acta Crystallographica Section D: Structural Biology, 2016, 72, 1036-1048.	1.1	114
43	Structural basis for misregulation of kinesin KIF21A autoinhibition by CFEOM1 disease mutations. Scientific Reports, 2016, 6, 30668.	1.6	26
44	Data-collection strategy for challenging native SAD phasing. Acta Crystallographica Section D: Structural Biology, 2016, 72, 421-429.	1.1	42
45	<i>In meso in situ</i> serial X-ray crystallography of soluble and membrane proteins at cryogenic temperatures. Acta Crystallographica Section D: Structural Biology, 2016, 72, 93-112.	1.1	91
46	Advanced Crystallographic Data Collection Protocols for Experimental Phasing. Methods in Molecular Biology, 2016, 1320, 175-191.	0.4	12
47	Data sets merging in serial crystallography. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s20-s20.	0.0	0
48	Structure determination of membrane (and soluble) proteins using <i>in meso in situ</i> serial X-ray crystallography at room and cryogenic temperatures. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s181-s182.	0.0	0
49	Advances in synchrotron data collection protocols for experimental phasing. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s22-s22.	0.0	0
50	<i>In meso in situ</i> serial X-ray crystallography of soluble and membrane proteins. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1238-1256.	2.5	103
51	Structural basis for the enhancement of virulence by viral spindles and their <i>in vivo</i> crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3973-3978.	3.3	92
52	Single-crystal structure and Raman spectroscopy of synthetic titanite analog CaAlSiO ₄ F. Mineralogy and Petrology, 2015, 109, 631-641.	0.4	4
53	Fast native-SAD phasing for routine macromolecular structure determination. Nature Methods, 2015, 12, 131-133.	9.0	120
54	PRiGo: a new multi-axis goniometer for macromolecular crystallography. Journal of Synchrotron Radiation, 2015, 22, 895-900.	1.0	52

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55	Innsbruckite, Mn ₃₃ (Si ₂ O ₅) ₁₄ (OH) ₃₈ – a new mineral from the Tyrol, Austria. <i>Mineralogical Magazine</i> , 2014, 78, 1613-1627.	0.6	1
56	Speciation of a group I intron into a lariat capping ribozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7659-7664.	3.3	47
57	Differential Modes of Peptide Binding onto Replicative Sliding Clamps from Various Bacterial Origins. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7565-7576.	2.9	29
58	Crystallizing Membrane Proteins in the Lipidic Mesophase. Experience with Human Prostaglandin E2 Synthase 1 and an Evolving Strategy. <i>Crystal Growth and Design</i> , 2014, 14, 2034-2047.	1.4	61
59	Recent developments at the MX beamline X10SA at the SLS. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1731-C1731.	0.0	0
60	D3, the new diffractometer for the macromolecular crystallography beamlines of the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 340-351.	1.0	23
61	Structure of viral spindles, in vivo crystals boosting insecticidal activity. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1597-C1597.	0.0	0
62	Native SAD Structure Solution from Merohedrally Twinned Data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C614-C614.	0.0	0
63	Structural and functional characterization of two alpha-synuclein strains. <i>Nature Communications</i> , 2013, 4, 2575.	5.8	721
64	ChipX: A Novel Microfluidic Chip for Counter-Diffusion Crystallization of Biomolecules and in Situ Crystal Analysis at Room Temperature. <i>Crystal Growth and Design</i> , 2013, 13, 3333-3340.	1.4	39
65	Structural and functional studies of ReP1-NCXSQ, a protein regulating the squid nerve Na ⁺ /Ca ²⁺ exchanger. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1098-1107.	2.5	8
66	Structure-Based Design of Short Peptide Ligands Binding onto the <i>E. coli</i> Processivity Ring. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 4627-4637.	2.9	26
67	Structural Basis of the 9-Fold Symmetry of Centrioles. <i>Cell</i> , 2011, 144, 364-375.	13.5	317
68	Strategies for the crystallization of viruses: Using phase diagrams and gels to produce 3D crystals of Grapevine fanleaf virus. <i>Journal of Structural Biology</i> , 2011, 174, 344-351.	1.3	12
69	Crystal Structure of the Archaeal Asparagine Synthetase: Interrelation with Aspartyl-tRNA and Asparaginyl-tRNA Synthetases. <i>Journal of Molecular Biology</i> , 2011, 412, 437-452.	2.0	12
70	SLAIN2 links microtubule plus end tracking proteins and controls microtubule growth in interphase. <i>Journal of Cell Biology</i> , 2011, 193, 1083-1099.	2.3	116
71	<i>Caenorhabditis elegans</i> N-glycan Core Î²-galactoside Confers Sensitivity towards Nematotoxic Fungal Galectin CGL2. <i>PLoS Pathogens</i> , 2010, 6, e1000717.	2.1	95
72	A fast selenium derivatization strategy for crystallization and phasing of RNA structures. <i>Rna</i> , 2009, 15, 707-715.	1.6	47

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73	SECIS-binding protein 2, a key player in selenoprotein synthesis, is an intrinsically disordered protein. <i>Biochimie</i> , 2009, 91, 1003-1009.	1.3	10
74	X06DA, a versatile protein crystallography beamline at the Swiss Light Source. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s332-s332.	0.3	1
75	A crystallization platform enabling automated in situ diffraction screening. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s32-s32.	0.3	0
76	Crystal Structure of Glutamyl-Queuosine tRNA ^{Asp} Synthetase Complexed with L-Glutamate: Structural Elements Mediating tRNA-Independent Activation of Glutamate and Glutamylation of tRNA ^{Asp} Anticodon. <i>Journal of Molecular Biology</i> , 2008, 381, 1224-1237.	2.0	17
77	Technical Report: Industrial Use of the SLS-MX Beamlines. <i>Synchrotron Radiation News</i> , 2007, 20, 19-22.	0.2	1
78	From egg to crystal. <i>Biochemistry and Molecular Biology Education</i> , 2007, 35, 280-286.	0.5	8
79	Structural and Biochemical Analysis of Sliding Clamp/Ligand Interactions Suggest a Competition Between Replicative and Translesion DNA Polymerases. <i>Journal of Molecular Biology</i> , 2004, 335, 1187-1197.	2.0	102