

Matthew Groves

List of Publications by Year in descending order

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77
papers

1,807
citations

331259

21
h-index

301761

39
g-index

78
all docs

78
docs citations

78
times ranked

2982
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution X-ray and NMR Structures of the SMN Tudor Domain: Conformational Variation in the Binding Site for Symmetrically Dimethylated Arginine Residues. <i>Journal of Molecular Biology</i> , 2003, 327, 507-520.	2.0	155
2	Theory and applications of differential scanning fluorimetry in early-stage drug discovery. <i>Biophysical Reviews</i> , 2020, 12, 85-104.	1.5	137
3	A unique Oct4 interface is crucial for reprogramming to pluripotency. <i>Nature Cell Biology</i> , 2013, 15, 295-301.	4.6	135
4	Methods for Protein Characterization by Mass Spectrometry, Thermal Shift (ThermoFluor) Assay, and Multiangle or Static Light Scattering. <i>Methods in Molecular Biology</i> , 2008, 426, 299-318.	0.4	118
5	ROS-Mediated Signalling in Bacteria: Zinc-Containing Cys-X-X-Cys Redox Centres and Iron-Based Oxidative Stress. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-9.	2.0	100
6	Functional Characterization of Recombinant Chloroplast Signal Recognition Particle. <i>Journal of Biological Chemistry</i> , 2001, 276, 27778-27786.	1.6	70
7	Structural Analysis of the Human Golgi-associated Plant Pathogenesis Related Protein GAPR-1 Implicates Dimerization as a Regulatory Mechanism. <i>Journal of Molecular Biology</i> , 2004, 339, 173-183.	2.0	66
8	Canonical Signal Recognition Particle Components Can Be Bypassed for Posttranslational Protein Targeting in Chloroplasts. <i>Plant Cell</i> , 2007, 19, 1635-1648.	3.1	63
9	The impact of protein characterization in structural proteomics. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 1125-1136.	2.5	58
10	A method for the general identification of protein crystals in crystallization experiments using a noncovalent fluorescent dye. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 526-535.	2.5	43
11	Specific Inhibition of the Aspartate Aminotransferase of <i>Plasmodium falciparum</i> . <i>Journal of Molecular Biology</i> , 2011, 405, 956-971.	2.0	42
12	The three-component signalling system HbpS-SenR as an example of a redox sensing pathway in bacteria. <i>Amino Acids</i> , 2009, 37, 479-486.	1.2	41
13	Acoustic Droplet Ejection Enabled Automated Reaction Scouting. <i>ACS Central Science</i> , 2019, 5, 451-457.	5.3	40
14	Relevance and Effectiveness of Molecular Tumor Board Recommendations for Patients With Non-Small-Cell Lung Cancer With Rare or Complex Mutational Profiles. <i>JCO Precision Oncology</i> , 2020, 4, 393-410.	1.5	32
15	Fatty Acid- and Retinoid-binding Proteins Have Distinct Binding Pockets for the Two Types of Cargo. <i>Journal of Biological Chemistry</i> , 2009, 284, 35818-35826.	1.6	31
16	Enzyme kinetics and inhibition of histone acetyltransferase KAT8. <i>European Journal of Medicinal Chemistry</i> , 2015, 105, 289-296.	2.6	31
17	Rapid approach to complex boronic acids. <i>Science Advances</i> , 2019, 5, eaaw4607.	4.7	30
18	The (R)-enantiomer of the 6-chromanol derivate SUL-121 improves renal graft perfusion via antagonism of the α_1 -adrenoceptor. <i>Scientific Reports</i> , 2019, 9, 13.	1.6	28

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19	A Systematic Protein Refolding Screen Method using the DGR Approach Reveals that Time and Secondary TSA are Essential Variables. <i>Scientific Reports</i> , 2017, 7, 9355.	1.6	26
20	Dynamic Substrate Enhancement for the Identification of Specific, Second-Site Binding Fragments Targeting a Set of Protein Tyrosine Phosphatases. <i>ChemBioChem</i> , 2011, 12, 2640-2646.	1.3	25
21	The Vitamin B1 Metabolism of <i>Staphylococcus aureus</i> Is Controlled at Enzymatic and Transcriptional Levels. <i>PLoS ONE</i> , 2009, 4, e7656.	1.1	24
22	The Oligomeric Assembly of the Novel Haem-Degrading Protein HbpS Is Essential for Interaction with Its Cognate Two-Component Sensor Kinase. <i>Journal of Molecular Biology</i> , 2009, 386, 1108-1122.	2.0	22
23	Synthetic Peptides That Antagonize the Angiotensin-Converting Enzyme-2 (ACE-2) Interaction with SARS-CoV-2 Receptor Binding Spike Protein. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2836-2847.	2.9	22
24	Artificial macrocycles as IL-17A/IL-17RA antagonists. <i>MedChemComm</i> , 2018, 9, 22-26.	3.5	20
25	Nanoscale, automated, high throughput synthesis and screening for the accelerated discovery of protein modifiers. <i>RSC Medicinal Chemistry</i> , 2021, 12, 809-818.	1.7	20
26	The Assembly of the Plasmodial PLP Synthase Complex Follows a Defined Course. <i>PLoS ONE</i> , 2008, 3, e1815.	1.1	20
27	The Human Milk Oligosaccharides 3-FL, Lacto-Na-Neotetraose, and LDFT Attenuate Tumor Necrosis Factor- α Induced Inflammation in Fetal Intestinal Epithelial Cells In Vitro through Shedding or Interacting with Tumor Necrosis Factor Receptor 1. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2000425.	1.5	19
28	Combining High-Throughput Synthesis and High-Throughput Protein Crystallography for Accelerated Hit Identification. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18231-18239.	7.2	19
29	Definition of domain boundaries and crystallization of the SMN Tudor domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 366-368.	2.5	17
30	Isolation and molecular characterization of novel glucarpidases: Enzymes to improve the antibody directed enzyme pro-drug therapy for cancer treatment. <i>PLoS ONE</i> , 2018, 13, e0196254.	1.1	16
31	A novel mechanism of inhibition by phenylthiourea on PvdP, a tyrosinase synthesizing pyoverdine of <i>Pseudomonas aeruginosa</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 146, 212-221.	3.6	16
32	Molecular docking, synthesis and biological evaluation of Vascular Endothelial Growth Factor (VEGF) B based peptide as antiangiogenic agent targeting the second domain of the Vascular Endothelial Growth Factor Receptor 1 (VEGFR1D2) for anticancer application. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 76.	7.1	16
33	Aspartate Aminotransferase - Bridging Carbohydrate and Energy Metabolism in <i>Plasmodium falciparum</i> . <i>Current Drug Metabolism</i> , 2012, 13, 332-336.	0.7	15
34	Oligomeric interfaces as a tool in drug discovery: Specific interference with activity of malate dehydrogenase of <i>Plasmodium falciparum</i> in vitro. <i>PLoS ONE</i> , 2018, 13, e0195011.	1.1	15
35	Crystallization and preliminary characterization of a novel haem-binding protein of <i>Streptomyces reticuli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 386-390.	0.7	13
36	Quantitative evaluation of macromolecular crystallization experiments using 1,8-ANS fluorescence. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 901-908.	2.5	13

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37	Novel Redox-Sensing Modules: Accessory Protein- and Nucleic Acid-Mediated Signaling. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 668-677.	2.5	13
38	Actionability of on-target ALK Resistance Mutations in Patients With Non-Small Cell Lung Cancer: Local Experience and Review of the Literature. <i>Clinical Lung Cancer</i> , 2022, 23, e104-e115.	1.1	13
39	Crystallization of a Golgi-associated PR-1-related protein (GAPR-1) that localizes to lipid-enriched microdomains. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 730-732.	2.5	12
40	Crystal structure of truncated aspartate transcarbamoylase from <i>Plasmodium falciparum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 523-533.	0.4	12
41	DXS as a target for structure-based drug design. <i>Future Medicinal Chemistry</i> , 2017, 9, 1277-1294.	1.1	12
42	Iron Binding at Specific Sites within the Octameric HbpS Protects <i>Streptomyces</i> from Iron-Mediated Oxidative Stress. <i>PLoS ONE</i> , 2013, 8, e71579.	1.1	12
43	Purification, crystallization and preliminary X-ray analysis of the aspartate aminotransferase of <i>Plasmodium falciparum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 409-412.	0.7	10
44	Data collection with a tailored X-ray beam size at 2.69 Å wavelength (4.6 keV): sulfur SAD phasing of Cdc23Nterm. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 403-412.	1.1	10
45	Afatinib in Osimertinib-Resistant EGFR ex19del/T790M/P794L Mutated NSCLC. <i>Journal of Thoracic Oncology</i> , 2018, 13, e161-e163.	0.5	9
46	Identification of a 1-deoxy-D-xylulose-5-phosphate synthase (DXS) mutant with improved crystallographic properties. <i>Biochemical and Biophysical Research Communications</i> , 2021, 539, 42-47.	1.0	9
47	Drug Target Validation Methods in Malaria - Protein Interference Assay (PIA) as a Tool for Highly Specific Drug Target Validation. <i>Current Drug Targets</i> , 2017, 18, 1069-1085.	1.0	9
48	Octameric alcohol oxidase dissociates into stable, soluble monomers upon incubation with dimethylsulfoxide. <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 208-213.	1.4	8
49	Identification and Validation of Novel Drug Targets for the Treatment of <i>Plasmodium falciparum</i> Malaria: New Insights. , 0, , .		8
50	Benchmark of Generic Shapes for Macrocycles. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6298-6313.	2.5	8
51	Tyrosine kinase inhibitor sensitive PDGFR ^T mutations in GIST: Two cases and review of the literature. <i>Oncotarget</i> , 2017, 8, 109836-109847.	0.8	8
52	First crystal structures of 1-deoxy-d-xylulose 5-phosphate synthase (DXPS) from <i>Mycobacterium tuberculosis</i> indicate a distinct mechanism of intermediate stabilization. <i>Scientific Reports</i> , 2022, 12, 7221.	1.6	8
53	Mobility of the conserved glycine 155 is required for formation of the active plasmodial Pdx1 dodecamer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 347-350.	1.1	7
54	Cytometric quantification of singlet oxygen in the human malaria parasite <i>Plasmodium falciparum</i> . <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 698-703.	1.1	7

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55	Molecular Target Validation of Aspartate Transcarbamoylase from <i>Plasmodium falciparum</i> by Torin 2. <i>ACS Infectious Diseases</i> , 2020, 6, 986-999.	1.8	7
56	New directions in antimalarial target validation. <i>Expert Opinion on Drug Discovery</i> , 2020, 15, 189-202.	2.5	7
57	Internal structure of an intact <i>Convallaria majalis</i> pollen grain observed with X-ray Fresnel coherent diffractive imaging. <i>Optics Express</i> , 2012, 20, 26778.	1.7	6
58	Structural insights into K48-linked ubiquitin chain formation by the Pex4p-Pex22p complex. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 562-567.	1.0	6
59	Live and Let Dye: Visualizing the Cellular Compartments of the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 694-705.	1.1	6
60	Crystallization and preliminary X-ray diffraction of malate dehydrogenase from <i>Plasmodium falciparum</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 659-662.	0.7	4
61	Purification, crystallization and preliminary X-ray diffraction analysis of pyridoxal kinase from <i>Plasmodium falciparum</i> (<i>PfPdxK</i>). <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1550-1555.	0.4	4
62	Identification of a non-competitive inhibitor of <i>Plasmodium falciparum</i> aspartate transcarbamoylase. <i>Biochemical and Biophysical Research Communications</i> , 2018, 497, 835-842.	1.0	4
63	Oligomeric protein interference validates druggability of aspartate interconversion in <i>Plasmodium falciparum</i> . <i>MicrobiologyOpen</i> , 2019, 8, e779.	1.2	4
64	A synthetic peptide as an allosteric inhibitor of human arginase I and II. <i>Molecular Biology Reports</i> , 2021, 48, 1959-1966.	1.0	4
65	Elucidation of haem-binding sites in the actinobacterial protein HbpS. <i>FEMS Microbiology Letters</i> , 2013, 342, 106-112.	0.7	3
66	Design, synthesis and biological evaluation of 1,5-disubstituted β -amino tetrazole derivatives as non-covalent inflammasome-caspase-1 complex inhibitors with potential application against immune and inflammatory disorders. <i>European Journal of Medicinal Chemistry</i> , 2022, 229, 114002.	2.6	3
67	Thiosulfate sulfurtransferase prevents hyperglycemic damage to the zebrafish pronephros in an experimental model for diabetes. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
68	The Pex4p-Pex22p complex from <i>Hansenula polymorpha</i> : biophysical analysis, crystallization and X-ray diffraction characterization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 76-81.	0.4	2
69	The Crystal Structure of the <i>Plasmodium falciparum</i> PdxK Provides an Experimental Model for Pro-Drug Activation. <i>Crystals</i> , 2019, 9, 534.	1.0	2
70	A fragment-based approach identifies an allosteric pocket that impacts malate dehydrogenase activity. <i>Communications Biology</i> , 2021, 4, 949.	2.0	2
71	Lipoic Acid Metabolism as a Potential Chemotherapeutic Target Against <i>Plasmodium falciparum</i> and <i>Staphylococcus aureus</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 742175.	1.8	2
72	Novel Highlight in Malarial Drug Discovery: Aspartate Transcarbamoylase. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 841833.	1.8	2

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73	Feasibility of Follow-Up Studies and Reclassification in Spinocerebellar Ataxia Gene Variants of Unknown Significance. <i>Frontiers in Genetics</i> , 2022, 13, 782685.	1.1	2
74	Combining High-Throughput Synthesis and High-Throughput Protein Crystallography for Accelerated Hit Identification. <i>Angewandte Chemie</i> , 2021, 133, 18379-18387.	1.6	1
75	Crystallization and preliminary X-ray analysis of the <i>Thermoplasma acidophilum</i> 20S proteasome in complex with protein substrates. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 899-902.	0.7	0
76	Applications of Structural Biology and Bioinformatics in the Investigation of Oxidative Stress-Related Processes. , 2014, , 505-534.		0
77	Crystal structure of truncated human coatamer protein complex subunit $\hat{1}\hat{1}$ (Cop $\hat{1}$ $\hat{1}$). <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 1-8.	0.4	0