

Andreas Heine

List of Publications by Year in descending order

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53
papers

1,285
citations

361045

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h-index

377514

34
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54
all docs

54
docs citations

54
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Expect the Unexpected or Caveat for Drug Designers: Multiple Structure Determinations Using Aldose Reductase Crystals Treated under Varying Soaking and Co-crystallisation Conditions. <i>Journal of Molecular Biology</i> , 2006, 363, 174-187.	2.0	101
2	A Small Nonrule of 3 Compatible Fragment Library Provides High Hit Rate of Endothiapepsin Crystal Structures with Various Fragment Chemotypes. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 7784-7796.	2.9	97
3	Six Biophysical Screening Methods Miss a Large Proportion of Crystallographically Discovered Fragment Hits: A Case Study. <i>ACS Chemical Biology</i> , 2016, 11, 1693-1701.	1.6	87
4	Rational Design of Thermodynamic and Kinetic Binding Profiles by Optimizing Surface Water Networks Coating Protein-Bound Ligands. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10530-10548.	2.9	64
5	Structure of Active Coagulation Factorâ€¦XIII Triggered by Calcium Binding: Basis for the Design of Nextâ€¦Generation Anticoagulants. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11930-11934.	7.2	62
6	High-Throughput Crystallography: Reliable and Efficient Identification of Fragment Hits. <i>Structure</i> , 2016, 24, 1398-1409.	1.6	62
7	Kinetic and Structural Insights into the Mechanism of Binding of Sulfonamides to Human Carbonic Anhydrase by Computational and Experimental Studies. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4245-4256.	2.9	60
8	Crystal Structures of tRNA-guanine Transglycosylase (TGT) in Complex with Novel and Potent Inhibitors Unravel Pronounced Induced-fit Adaptations and Suggest Dimer Formation Upon Substrate Binding. <i>Journal of Molecular Biology</i> , 2007, 370, 492-511.	2.0	57
9	One Question, Multiple Answers: Biochemical and Biophysical Screening Methods Retrieve Deviating Fragment Hit Lists. <i>ChemMedChem</i> , 2015, 10, 1511-1521.	1.6	54
10	Identification of Novel Aldose Reductase Inhibitors Based on Carboxymethylated Mercaptotriazinoindole Scaffold. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 2649-2657.	2.9	42
11	Fragment Binding Can Be Either More Enthalpy-Driven or Entropy-Driven: Crystal Structures and Residual Hydration Patterns Suggest Why. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6960-6971.	2.9	37
12	Thermodynamic signatures of fragment binding: Validation of direct versus displacement ITC titrations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 647-656.	1.1	36
13	Paradoxically, Most Flexible Ligand Binds Most Entropy-Favored: Intriguing Impact of Ligand Flexibility and Solvation on Drugâ€¦Kinase Binding. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5922-5933.	2.9	36
14	Paying the Price of Desolvation in Solvent-Exposed Protein Pockets: Impact of Distal Solubilizing Groups on Affinity and Binding Thermodynamics in a Series of Thermolysin Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 5791-5799.	2.9	35
15	Soaking suggests â€œalternative factsâ€œ: Only co-crystallization discloses major ligand-induced interface rearrangements of a homodimeric tRNA-binding protein indicating a novel mode-of-inhibition. <i>PLoS ONE</i> , 2017, 12, e0175723.	1.1	30
16	Structures of endothiapepsinâ€¦fragment complexes from crystallographic fragment screening using a novel, diverse and affordable 96-compound fragment library. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 346-355.	0.4	29
17	Structureâ€¦Based Macrocyclization of Substrate Analogue NS2Bâ€¦NS3 Protease Inhibitors of Zika, West Nile and Dengue viruses. <i>ChemMedChem</i> , 2020, 15, 1439-1452.	1.6	29
18	Tracing Binding Modes in Hitâ€¦toâ€¦Lead Optimization: Chameleonâ€¦Like Poses of Aspartic Protease Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2849-2853.	7.2	27

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19	F2X-Universal and F2X-Entry: Structurally Diverse Compound Libraries for Crystallographic Fragment Screening. <i>Structure</i> , 2020, 28, 694-706.e5.	1.6	27
20	Chasing Protons: How Isothermal Titration Calorimetry, Mutagenesis, and pK_a Calculations Trace the Locus of Charge in Ligand Binding to a tRNA-Binding Enzyme. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5554-5565.	2.9	26
21	How Nothing Boosts Affinity: Hydrophobic Ligand Binding to the Virtually Vacated S_1 Pocket of Thermolysin. <i>Journal of the American Chemical Society</i> , 2017, 139, 10419-10431.	6.6	23
22	Two Methods, One Goal: Structural Differences between Cocrystallization and Crystal Soaking to Discover Ligand Binding Poses. <i>ChemMedChem</i> , 2021, 16, 292-300.	1.6	19
23	Charges Shift Protonation: Neutron Diffraction Reveals that Aniline and 2-Aminopyridine Become Protonated Upon Binding to Trypsin. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4887-4890.	7.2	18
24	Investigation of Specificity Determinants in Bacterial tRNA-Guanine Transglycosylase Reveals Queuine, the Substrate of Its Eucaryotic Counterpart, as Inhibitor. <i>PLoS ONE</i> , 2013, 8, e64240.	1.1	16
25	Experimental Active-Site Mapping by Fragments: Hot Spots Remote from the Catalytic Center of Endothiapepsin. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7561-7575.	2.9	14
26	Elucidating the Origin of Long Residence Time Binding for Inhibitors of the Metalloprotease Thermolysin. <i>ACS Chemical Biology</i> , 2017, 12, 225-233.	1.6	14
27	Surprising Non-Additivity of Methyl Groups in Drug-Kinase Interaction. <i>ACS Chemical Biology</i> , 2019, 14, 2585-2594.	1.6	14
28	Glutamate versus Glutamine Exchange Swaps Substrate Selectivity in tRNA-Guanine Transglycosylase: Insight into the Regulation of Substrate Selectivity by Kinetic and Crystallographic Studies. <i>Journal of Molecular Biology</i> , 2007, 374, 764-776.	2.0	12
29	Active Site Mapping of an Aspartic Protease by Multiple Fragment Crystal Structures: Versatile Warheads To Address a Catalytic Dyad. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9743-9759.	2.9	12
30	Frag4Lead: growing crystallographic fragment hits by catalog using fragment-guided template docking. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 1168-1182.	1.1	11
31	High-affinity inhibitors of <i>Zymomonas mobilis</i> tRNA-guanine transglycosylase through convergent optimization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1798-1807.	2.5	10
32	Structural basis for catalysis and substrate specificity of a 3C-like cysteine protease from a mosquito mesonivirus. <i>Virology</i> , 2019, 533, 21-33.	1.1	10
33	Unraveling a Ligand-Induced Twist of a Homodimeric Enzyme by Pulsed Electron-Electron Double Resonance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23419-23426.	7.2	10
34	Swapping Interface Contacts in the Homodimeric tRNA-Guanine Transglycosylase: An Option for Functional Regulation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10085-10090.	7.2	10
35	Replacement of Water Molecules in a Phosphate Binding Site by Furanoside-Appended <i>lin</i> -Benzoguanine Ligands of tRNA-Guanine Transglycosylase (TGT). <i>Chemistry - A European Journal</i> , 2015, 21, 126-135.	1.7	8
36	On the Implication of Water on Fragment-Ligand Growth in Kinase Binding Thermodynamics. <i>ChemMedChem</i> , 2018, 13, 1988-1996.	1.6	8

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37	Protein-Induced Change in Ligand Protonation during Trypsin and Thrombin Binding: Hint on Differences in Selectivity Determinants of Both Proteins?. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3274-3289.	2.9	8
38	Fragment Binding to Kinase Hinge: If Charge Distribution and Local pK_a Shifts Mislead Popular Bioisosterism Concepts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 252-258.	7.2	8
39	Design and Synthesis of Bioisosteres of Acylhydrazones as Stable Inhibitors of the Aspartic Protease Endothiapepsin. <i>ChemMedChem</i> , 2018, 13, 2266-2270.	1.6	7
40	Fragments as Novel Starting Points for tRNA-Guanine Transglycosylase Inhibitors Found by Alternative Screening Strategies. <i>ChemMedChem</i> , 2020, 15, 324-337.	1.6	7
41	Workflow and Tools for Crystallographic Fragment Screening at the Helmholtz-Zentrum Berlin. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	7
42	Structure-Based Optimization and Characterization of Macrocyclic Zika Virus NS2B-NS3 Protease Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6555-6572.	2.9	7
43	Structural and Biochemical Investigation of the Heterodimeric Murine tRNA-Guanine Transglycosylase. <i>ACS Chemical Biology</i> , 2022, 17, 2229-2247.	1.6	7
44	Changing the selectivity profile " from substrate analog inhibitors of thrombin and factor Xa to potent matriptase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 89-97.	2.5	6
45	A Proof-of-Concept Fragment Screening of a Hit-Validated 96-Compounds Library against Human Carbonic Anhydrase II. <i>Biomolecules</i> , 2020, 10, 518.	1.8	5
46	Ladungen verschieben Protonierungen: Neutronenbeugung zeigt, dass Anilin und 2-Aminopyridin protoniert an Trypsin binden. <i>Angewandte Chemie</i> , 2017, 129, 4965-4969.	1.6	4
47	The Importance of Charge in Perturbing the Aromatic Glue Stabilizing the Protein-Protein Interface of Homodimeric tRNA-Guanine Transglycosylase. <i>ACS Chemical Biology</i> , 2020, 15, 3021-3029.	1.6	3
48	Structure-Based Design of FXIIIa-Blockers: Addressing a Transient Hydrophobic Pocket in the Active Site of FXIIIa. <i>ChemMedChem</i> , 2020, 15, 900-905.	1.6	3
49	Austausch der Proteinkontaktflächen in der homodimeren tRNA-Guanin-Transglycosylase: ein Weg der funktionellen Regulation. <i>Angewandte Chemie</i> , 2018, 130, 10242-10247.	1.6	2
50	Targeting a Cryptic Pocket in a Protein-Protein Contact by Disulfide-Induced Rupture of a Homodimeric Interface. <i>ACS Chemical Biology</i> , 2021, 16, 1090-1098.	1.6	2
51	Entschlüsselung der ligandeninduzierten Verdrehung eines homodimeren Enzyms mit Hilfe der gepulsten Elektron-Elektron-Doppelresonanzspektroskopie. <i>Angewandte Chemie</i> , 2021, 133, 23607.	1.6	1
52	¹⁹ F-NMR Unveils the Ligand-Induced Conformation of a Catalytically Inactive Twisted Homodimer of tRNA-Guanine Transglycosylase. <i>ACS Chemical Biology</i> , 2022, 17, 1745-1755.	1.6	1
53	Fragment-Bindung an die Kinase-Scharnier-Region: Wenn Ladungsverteilung und lokale pK_a -Verschiebungen etablierte Bioisosterie-Konzepte fehlleiten. <i>Angewandte Chemie</i> , 2021, 133, 256-262.	1.6	0