

Alessio Ciulli

List of Publications by Year in descending order

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113
papers

8,460
citations

50276

46
h-index

48315

88
g-index

143
all docs

143
docs citations

143
times ranked

6781
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis of PROTAC cooperative recognition for selective protein degradation. <i>Nature Chemical Biology</i> , 2017, 13, 514-521.	8.0	758
2	Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. <i>ACS Chemical Biology</i> , 2015, 10, 1770-1777.	3.4	744
3	Targeting the von Hippel-Lindau E3 Ubiquitin Ligase Using Small Molecules To Disrupt the VHL/HIF-1 α Interaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 4465-4468.	13.7	382
4	BAF complex vulnerabilities in cancer demonstrated via structure-based PROTAC design. <i>Nature Chemical Biology</i> , 2019, 15, 672-680.	8.0	335
5	Structure-Guided Design and Optimization of Small Molecules Targeting the Protein-Protein Interaction between the von Hippel-Lindau (VHL) E3 Ubiquitin Ligase and the Hypoxia Inducible Factor (HIF) Alpha Subunit with in Vitro Nanomolar Affinities. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 8657-8663.	6.4	287
6	Iterative Design and Optimization of Initially Inactive Proteolysis Targeting Chimeras (PROTACs) Identify VZ185 as a Potent, Fast, and Selective von Hippel-Lindau (VHL) Based Dual Degradation Probe of BRD9 and BRD7. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 699-726.	6.4	230
7	Small-Molecule Inhibitors of the Interaction between the E3 Ligase VHL and HIF1 α . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11463-11467.	13.8	220
8	SPR-Measured Dissociation Kinetics of PROTAC Ternary Complexes Influence Target Degradation Rate. <i>ACS Chemical Biology</i> , 2019, 14, 361-368.	3.4	212
9	Homo-PROTACs: bivalent small-molecule dimerizers of the VHL E3 ubiquitin ligase to induce self-degradation. <i>Nature Communications</i> , 2017, 8, 830.	12.8	184
10	Targeting Cullin-RING E3 ubiquitin ligases for drug discovery: structure, assembly and small-molecule modulation. <i>Biochemical Journal</i> , 2015, 467, 365-386.	3.7	168
11	Potent and selective chemical probe of hypoxic signalling downstream of HIF-1 α hydroxylation via VHL inhibition. <i>Nature Communications</i> , 2016, 7, 13312.	12.8	167
12	Molecular recognition of ternary complexes: a new dimension in the structure-guided design of chemical degraders. <i>Essays in Biochemistry</i> , 2017, 61, 505-516.	4.7	163
13	Dissecting Fragment-Based Lead Discovery at the von Hippel-Lindau Protein:Hypoxia Inducible Factor 1 α Protein-Protein Interface. <i>Chemistry and Biology</i> , 2012, 19, 1300-1312.	6.0	162
14	Impact of Target Warhead and Linkage Vector on Inducing Protein Degradation: Comparison of Bromodomain and Extra-Terminal (BET) Degradation Derivatives from Triazolodiazepine (JQ1) and Tetrahydroquinoline (I-BET726) BET Inhibitor Scaffolds. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 504-513.	6.4	161
15	E3 Ligase Ligands for PROTACs: How They Were Found and How to Discover New Ones. <i>SLAS Discovery</i> , 2021, 26, 484-502.	2.7	154
16	Structure-Based Design of a Macrocyclic PROTAC. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1727-1734.	13.8	150
17	Cyclic and Macrocyclic Peptides as Chemical Tools To Recognise Protein Surfaces and Probe Protein-Protein Interactions. <i>ChemMedChem</i> , 2016, 11, 787-794.	3.2	141
18	Probing Hot Spots at Protein-Ligand Binding Sites: A Fragment-Based Approach Using Biophysical Methods. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 4992-5000.	6.4	140

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19	Application of Fragment Growing and Fragment Linking to the Discovery of Inhibitors of <i>Mycobacterium tuberculosis</i> Pantothenate Synthetase. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8452-8456.	13.8	138
20	Bromodomain-peptide displacement assays for interactome mapping and inhibitor discovery. <i>Molecular BioSystems</i> , 2011, 7, 2899.	2.9	136
21	A bump-and-hole approach to engineer controlled selectivity of BET bromodomain chemical probes. <i>Science</i> , 2014, 346, 638-641.	12.6	128
22	Trivalent PROTACs enhance protein degradation via combined avidity and cooperativity. <i>Nature Chemical Biology</i> , 2021, 17, 1157-1167.	8.0	108
23	Group-Based Optimization of Potent and Cell-Active Inhibitors of the von Hippel-Lindau (VHL) E3 Ubiquitin Ligase: Structure-Activity Relationships Leading to the Chemical Probe (2 <i>S</i> ,4 <i>R</i>)-1-((<i>S</i>)-2-(1-Cyanocyclopropanecarboxamido)-3,3-dimethylbutanoyl)-4-hydroxy- <i>N</i> -(4-(4-methylthiazol-5-yl)phenyl)butanamide (VH298). <i>Journal of Medicinal Chemistry</i> , 2018, 61, 599-618.	6.4	106
24	Crystal Structure of the Cul2-Rbx1-EloBC-VHL Ubiquitin Ligase Complex. <i>Structure</i> , 2017, 25, 901-911.e3.	3.3	105
25	3-Fluoro-4-hydroxyprolines: Synthesis, Conformational Analysis, and Stereoselective Recognition by the VHL E3 Ubiquitin Ligase for Targeted Protein Degradation. <i>Journal of the American Chemical Society</i> , 2018, 140, 9299-9313.	13.7	102
26	Highly Selective PTK2 Proteolysis Targeting Chimeras to Probe Focal Adhesion Kinase Scaffolding Functions. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2508-2520.	6.4	99
27	Fragment-based approaches to enzyme inhibition. <i>Current Opinion in Biotechnology</i> , 2007, 18, 489-496.	6.6	98
28	Integrated biophysical approach to fragment screening and validation for fragment-based lead discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12984-12989.	7.1	97
29	Cereblon versus VHL: Hijacking E3 ligases against each other using PROTACs. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2466-2479.	3.0	97
30	Targeting Low-Druggability Bromodomains: Fragment Based Screening and Inhibitor Design against the BAZ2B Bromodomain. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 10183-10187.	6.4	92
31	Rapid and Reversible Knockdown of Endogenously Tagged Endosomal Proteins via an Optimized HaloPROTAC Degradator. <i>ACS Chemical Biology</i> , 2019, 14, 882-892.	3.4	88
32	Bifunctional chemical probes inducing protein-protein interactions. <i>Current Opinion in Chemical Biology</i> , 2019, 52, 145-156.	6.1	83
33	Understanding and Improving the Membrane Permeability of VH032-Based PROTACs. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1732-1738.	2.8	83
34	Salicylate Biosynthesis: Overexpression, Purification, and Characterization of Irp9, a Bifunctional Salicylate Synthase from <i>Yersinia enterocolitica</i> . <i>Journal of Bacteriology</i> , 2005, 187, 5061-5066.	2.2	82
35	Recognition of substrate degrons by E3 ubiquitin ligases and modulation by small-molecule mimicry strategies. <i>Current Opinion in Structural Biology</i> , 2017, 44, 101-110.	5.7	74
36	Optimization of the Interligand Overhauser Effect for Fragment Linking: Application to Inhibitor Discovery against <i>Mycobacterium tuberculosis</i> Pantothenate Synthetase. <i>Journal of the American Chemical Society</i> , 2010, 132, 4544-4545.	13.7	71

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37	Application of Fragment Screening and Merging to the Discovery of Inhibitors of the <i>Mycobacterium tuberculosis</i> Cytochrome P450 CYP121. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9311-9316.	13.8	69
38	Design and Characterization of SGK3-PROTAC1, an Isoform Specific SGK3 Kinase PROTAC Degradator. <i>ACS Chemical Biology</i> , 2019, 14, 2024-2034.	3.4	67
39	Amide-to-Ester Substitution as a Strategy for Optimizing PROTAC Permeability and Cellular Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 18082-18101.	6.4	61
40	Biophysical Screening for the Discovery of Small-Molecule Ligands. <i>Methods in Molecular Biology</i> , 2013, 1008, 357-388.	0.9	59
41	Molecular Basis of Histone Tail Recognition by Human TIP5 PHD Finger and Bromodomain of the Chromatin Remodeling Complex NoRC. <i>Structure</i> , 2015, 23, 80-92.	3.3	59
42	Inhibition of <i>Mycobacterium tuberculosis</i> Pantothenate Synthetase by Analogues of the Reaction Intermediate. <i>ChemBioChem</i> , 2008, 9, 2606-2611.	2.6	56
43	NMR approaches in structure-based lead discovery: Recent developments and new frontiers for targeting multi-protein complexes. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 116, 101-112.	2.9	54
44	Is NMR Fragment Screening Fine-Tuned to Assess Druggability of Protein-Protein Interactions?. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 23-28.	2.8	50
45	A Fragment-Based Approach to Probing Adenosine Recognition Sites by Using Dynamic Combinatorial Chemistry. <i>ChemBioChem</i> , 2009, 10, 2772-2779.	2.6	47
46	Selectivity on-target of bromodomain chemical probes by structure-guided medicinal chemistry and chemical biology. <i>Future Medicinal Chemistry</i> , 2016, 8, 1655-1680.	2.3	47
47	New molecular and therapeutic insights into canine diffuse large B-cell lymphoma elucidates the role of the dog as a model for human disease. <i>Haematologica</i> , 2019, 104, e256-e259.	3.5	43
48	Inducible Degradation of Target Proteins through a Tractable Affinity-Directed Protein Missile System. <i>Cell Chemical Biology</i> , 2020, 27, 1164-1180.e5.	5.2	42
49	New Synthetic Routes to Triazolo-benzodiazepine Analogues: Expanding the Scope of the Bump-and-Hole Approach for Selective Bromo and Extra-Terminal (BET) Bromodomain Inhibition. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1492-1500.	6.4	41
50	Driving E3 Ligase Substrate Specificity for Targeted Protein Degradation: Lessons from Nature and the Laboratory. <i>Annual Review of Biochemistry</i> , 2022, 91, 295-319.	11.1	41
51	Crystal Structure of <i>Escherichia coli</i> Ketopantoate Reductase in a Ternary Complex with NADP+ and Pantoate Bound. <i>Journal of Biological Chemistry</i> , 2007, 282, 8487-8497.	3.4	39
52	Structural investigation of inhibitor designs targeting 3-dehydroquinate dehydratase from the shikimate pathway of <i>Mycobacterium tuberculosis</i> . <i>Biochemical Journal</i> , 2011, 436, 729-739.	3.7	39
53	Target 2035 – update on the quest for a probe for every protein. <i>RSC Medicinal Chemistry</i> , 2022, 13, 13-21.	3.9	39
54	Development of BromoTag: A Bump-and-Hole PROTAC System to Induce Potent, Rapid, and Selective Degradation of Tagged Target Proteins. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15477-15502.	6.4	37

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55	Transforming targeted cancer therapy with PROTACs: A forward-looking perspective. <i>Current Opinion in Pharmacology</i> , 2021, 57, 175-183.	3.5	36
56	The Crystal Structure of Escherichia coli Ketopantoate Reductase with NADP+ Bound,. <i>Biochemistry</i> , 2005, 44, 8930-8939.	2.5	34
57	Optimization of a "bump-and-hole" approach to allele-selective BET bromodomain inhibition. <i>Chemical Science</i> , 2018, 9, 2452-2468.	7.4	34
58	Building ubiquitination machineries: E3 ligase multi-subunit assembly and substrate targeting by PROTACs and molecular glues. <i>Current Opinion in Structural Biology</i> , 2021, 67, 110-119.	5.7	33
59	Mechanistic and Structural Features of PROTAC Ternary Complexes. <i>Methods in Molecular Biology</i> , 2021, 2365, 79-113.	0.9	32
60	Structural basis of molecular recognition of helical histone H3 tail by PHD finger domains. <i>Biochemical Journal</i> , 2017, 474, 1633-1651.	3.7	31
61	Allosteric Targeting of the Fanconi Anemia Ubiquitin-Conjugating Enzyme Ube2T by Fragment Screening. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4093-4098.	6.4	30
62	Optimization of Inhibitors of <i>Mycobacterium tuberculosis</i> Pantothenate Synthetase Based on Group Efficiency Analysis. <i>ChemMedChem</i> , 2016, 11, 38-42.	3.2	27
63	Targeting non-canonical activation of GIL1 by the SOX2-BRD4 transcriptional complex improves the efficacy of HEDGEHOG pathway inhibition in melanoma. <i>Oncogene</i> , 2021, 40, 3799-3814.	5.9	27
64	Brd4/Brd2 isoform switching coordinates pluripotent exit and Smad2-dependent lineage specification. <i>EMBO Reports</i> , 2017, 18, 1108-1122.	4.5	26
65	Targeting Ligandable Pockets on Plant Homeodomain (PHD) Zinc Finger Domains by a Fragment-Based Approach. <i>ACS Chemical Biology</i> , 2018, 13, 915-921.	3.4	25
66	Multimeric Complexes among Ankyrin-Repeat and SOCS-box Protein 9 (ASB9), ElonginBC, and Cullin 5: Insights into the Structure and Assembly of ECS-type Cullin-RING E3 Ubiquitin Ligases. <i>Biochemistry</i> , 2013, 52, 5236-5246.	2.5	24
67	Biophysical Studies on Interactions and Assembly of Full-size E3 Ubiquitin Ligase. <i>Journal of Biological Chemistry</i> , 2015, 290, 4178-4191.	3.4	24
68	Chemical genetics approaches for selective intervention in epigenetics. <i>Current Opinion in Chemical Biology</i> , 2016, 33, 186-194.	6.1	24
69	Binding Hotspots of BAZ2B Bromodomain: Histone Interaction Revealed by Solution NMR Driven Docking. <i>Biochemistry</i> , 2014, 53, 6706-6716.	2.5	23
70	The biochemical properties of the two <i>Arabidopsis thaliana</i> isochorismate synthases. <i>Biochemical Journal</i> , 2017, 474, 1579-1590.	3.7	23
71	Structural insights into substrate recognition by the SOCS2 E3 ubiquitin ligase. <i>Nature Communications</i> , 2019, 10, 2534.	12.8	23
72	Surface Probing by Fragment-Based Screening and Computational Methods Identifies Ligandable Pockets on the von Hippel-Lindau (VHL) E3 Ubiquitin Ligase. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 7387-7393.	6.4	21

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73	Targeting epigenetic reader domains by chemical biology. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 82-94.	6.1	20
74	Investigation of the mycobacterial enzyme HsaD as a potential novel target for anti-tubercular agents using a fragment-based drug design approach. <i>British Journal of Pharmacology</i> , 2017, 174, 2209-2224.	5.4	19
75	Targeting epigenetic modulators using PROTAC degraders: Current status and future perspective. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 63, 128653.	2.2	18
76	Targeting Bacillosamine Biosynthesis in Bacterial Pathogens: Development of Inhibitors to a Bacterial Amino-Sugar Acetyltransferase from <i>Campylobacter jejuni</i> . <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2099-2118.	6.4	17
77	Mind the Metal: A Fragment Library-Derived Zinc Impurity Binds the E2 Ubiquitin-Conjugating Enzyme Ube2T and Induces Structural Rearrangements. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8183-8191.	6.4	17
78	Serendipitous SAD Solution for DMSO-Soaked SOCS2-ElonginC-ElonginB Crystals Using Covalently Incorporated Dimethylarsenic: Insights into Substrate Receptor Conformational Flexibility in Cullin RING Ligases. <i>PLoS ONE</i> , 2015, 10, e0131218.	2.5	16
79	Spy vs. spy: selecting the best reporter for ¹⁹ F NMR competition experiments. <i>Chemical Communications</i> , 2019, 55, 1482-1485.	4.1	16
80	Recent advances in synthetic and medicinal chemistry of phosphotyrosine and phosphonate-based phosphotyrosine analogues. <i>RSC Medicinal Chemistry</i> , 2021, 12, 8-23.	3.9	16
81	RNA-seq analysis of PHD and VHL inhibitors reveals differences and similarities to the hypoxia response.. <i>Wellcome Open Research</i> , 2019, 4, 17.	1.8	14
82	Expression and high yield production of the catalytic domain of matrix metalloproteinase 12 and of an active mutant with increased solubility. <i>Journal of Molecular Catalysis A</i> , 2003, 204-205, 401-408.	4.8	13
83	Thioamide substitution to probe the hydroxyproline recognition of VHL ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 2992-2995.	3.0	13
84	Structure-Based Design of a Macrocyclic PROTAC. <i>Angewandte Chemie</i> , 2020, 132, 1744-1751.	2.0	13
85	Von Hippel-Lindau (VHL) small-molecule inhibitor binding increases stability and intracellular levels of VHL protein. <i>Journal of Biological Chemistry</i> , 2021, 297, 100910.	3.4	13
86	Biophysical tools to monitor enzyme-ligand interactions of enzymes involved in vitamin biosynthesis. <i>Biochemical Society Transactions</i> , 2005, 33, 767-771.	3.4	12
87	Coenzyme biosynthesis: enzyme mechanism, structure and inhibition. <i>Natural Product Reports</i> , 2007, 24, 1009.	10.3	12
88	New class of molecule targets proteins outside cells for degradation. <i>Nature</i> , 2020, 584, 193-194.	27.8	12
89	Translating PROTAC chemical series optimization into functional outcomes underlying BRD7 and BRD9 protein degradation. <i>Current Research in Chemical Biology</i> , 2021, 1, 100009.	2.9	11
90	Development of NanoLuc-targeting protein degraders and a universal reporter system to benchmark tag-targeted degradation platforms. <i>Nature Communications</i> , 2022, 13, 2073.	12.8	11

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91	Biophysical characterization of laforinâ€™ carbohydrate interaction. <i>Biochemical Journal</i> , 2016, 473, 335-345.	3.7	10
92	Structureâ€™Guided Design of Peptides as Tools to Probe the Proteinâ€™Protein Interaction between Cullinâ€™2 and Elonginâ€™...BC Substrate Adaptor in Cullin RING E3 Ubiquitin Ligases. <i>ChemMedChem</i> , 2017, 12, 1491-1496.	3.2	10
93	Protein degradation for drug discovery. <i>Drug Discovery Today: Technologies</i> , 2019, 31, 1-3.	4.0	10
94	A beginnerâ€™s guide to PROTACs and targeted protein degradation. <i>Biochemist</i> , 2021, 43, 74-79.	0.5	10
95	pH-tuneable binding of 2â€™-phospho-ADP-ribose to ketopantoate reductase: a structural and calorimetric study. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 171-178.	2.5	9
96	Nucleophile Selectivity of Chorismate-Utilizing Enzymes. <i>ChemBioChem</i> , 2007, 8, 622-624.	2.6	8
97	Estimating the cooperativity of PROTAC-induced ternary complexes using ¹⁹ F NMR displacement assay. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1765-1770.	3.9	8
98	Synthesis and Biological Investigation of (+)-JD1, an Organometallic BET Bromodomain Inhibitor. <i>Organometallics</i> , 2020, 39, 408-416.	2.3	6
99	SMARCA4 biology in alveolar rhabdomyosarcoma. <i>Oncogene</i> , 2022, 41, 1647-1656.	5.9	6
100	MST and TRIC Technology to Reliably Study PROTAC Binary and Ternary Binding in Drug Development. <i>Methods in Molecular Biology</i> , 2021, 2365, 115-133.	0.9	5
101	Effects of meta-substitution on aggregation in the cubanes [SnNR]4 {R = [2-Me-5-MeOC6H3], [2,5-(MeO)2C6H3] and [3,5-(MeO)2C6H3]}. <i>Dalton Transactions RSC</i> , 2002, , 1046-1050.	2.3	4
102	Fragment-Based Drug Discovery in Academia: Experiences From a Tuberculosis Programme. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009, , 21-36.	0.5	4
103	Stereoselective synthesis of allele-specific BET inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 7533-7539.	2.8	4
104	Automated Determination of Nuclear Magnetic Resonance Chemical Shift Perturbations in Ligand Screening Experiments: The PICASSO Web Server. <i>Journal of Chemical Information and Modeling</i> , 2021, , .	5.4	4
105	Gram-Scale Laboratory Synthesis of TC AC 28, a High-Affinity BET Bromodomain Ligand. <i>ACS Omega</i> , 2017, 2, 4328-4332.	3.5	3
106	DUB be good to me. <i>Nature Chemical Biology</i> , 2022, 18, 358-359.	8.0	3
107	The bromodomain and extra-terminal domain degrader MZ1 exhibits preclinical anti-tumoral activity in diffuse large B-cell lymphoma of the activated B cell-like type. <i>Exploration of Targeted Anti-tumor Therapy</i> , 2021, 2, 586-601.	0.8	3
108	Chapter 16. Discovery and Extrapolation of Fragment Structures towards Drug Design. <i>RSC Biomolecular Sciences</i> , 2007, , 293-318.	0.4	1

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109	PO-449 Optimisation of an AlphaLISA assay for the characterisation of PROTAC-induced ternary complexes within cell lysates. ESMO Open, 2018, 3, A198.	4.5	1
110	Switching domains. Nature Chemical Biology, 2016, 12, 659-660.	8.0	0
111	Targeted Protein Degradation with Small Molecules: How PROTACs Work. Proceedings (mdpi), 2019, 22, .	0.2	0
112	Editorial overview: Hot targets and new modalities. Current Opinion in Chemical Biology, 2021, 62, A1-A3.	6.1	0
113	The 2 nd Alpine Winter Conference on Medicinal and Synthetic Chemistry. ChemMedChem, 2021, 16, 2417-2423.	3.2	0