

Chris Abell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

5,987
citations

34
h-index

76
g-index

126
ext. papers

6,962
ext. citations

9.8
avg. IF

5.9
L-index

#	Paper	IF	Citations
110	A new strategy for hit generation: Novel in cellulo active inhibitors of CYP121A1 from <i>Mycobacterium tuberculosis</i> via a combined X-ray crystallographic and phenotypic screening approach (XP screen).. <i>European Journal of Medicinal Chemistry</i> , 2022 , 230, 114105	6.8	1
109	Targeting CoaBC through Chemical Inhibition of 4VPhosphopantothenoyl-L-cysteine Synthetase (CoaB) Activity. <i>ACS Infectious Diseases</i> , 2021 , 7, 1666-1679	5.5	0
108	Droplet-based microfluidic screening and sorting of microalgal populations for strain engineering applications. <i>Algal Research</i> , 2021 , 56, None	5	5
107	A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. <i>Cell Chemical Biology</i> , 2021 , 28, 835-847.e5	8.2	4
106	Microdroplets confined assembly of opal composites in dynamic borate ester-based networks. <i>Chemical Engineering Journal</i> , 2021 , 426, 127581	14.7	3
105	A fragment-based approach to assess the ligandability of ArgB, ArgC, ArgD and ArgF in the L-arginine biosynthetic pathway of. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 3491-3506	6.8	5
104	Inhibiting <i>Mycobacterium tuberculosis</i> CoaBC by targeting an allosteric site. <i>Nature Communications</i> , 2021 , 12, 143	17.4	4
103	Viscoelastic Hydrogel Microfibers Exploiting Cucurbit[8]uril Host-Guest Chemistry and Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17929-17935	9.5	10
102	Fragment-Based Design of InhA Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 4749-4761	8.3	14
101	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. <i>Angewandte Chemie</i> , 2020 , 132, 6969-6975	3.6	7
100	Using a Fragment-Based Approach to Identify Alternative Chemical Scaffolds Targeting Dihydrofolate Reductase from. <i>ACS Infectious Diseases</i> , 2020 , 6, 2192-2201	5.5	2
99	Fragment-based discovery of a new class of inhibitors targeting mycobacterial tRNA modification. <i>Nucleic Acids Research</i> , 2020 , 48, 8099-8112	20.1	10
98	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6902-6908	16.4	17
97	Covalent inactivation of <i>Mycobacterium thermoresistibile</i> inosine-5Vmonophosphate dehydrogenase (IMPDH). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126792	2.9	2
96	Construction of core-shell microcapsules focused surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2020 , 20, 3104-3108	7.2	4
95	Targeting of Fumarate Hydratase from Using Allosteric Inhibitors with a Dimeric-Binding Mode. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10586-10604	8.3	6
94	2-Aminothiazole Derivatives as Selective Allosteric Modulators of the Protein Kinase CK2. 2. Structure-Based Optimization and Investigation of Effects Specific to the Allosteric Mode of Action. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 1817-1836	8.3	14

93	2-Aminothiazole Derivatives as Selective Allosteric Modulators of the Protein Kinase CK2. 1. Identification of an Allosteric Binding Site. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 1803-1816	8.3	20
92	Bioinspired hydrogel microfibrils colour-encoded with colloidal crystals. <i>Materials Horizons</i> , 2019 , 6, 1938-1943	14.3	13
91	Structure-guided fragment-based drug discovery at the synchrotron: screening binding sites and correlations with hotspot mapping. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180422	3	18
90	Motile Artificial Chromatophores: Light-Triggered Nanoparticles for Microdroplet Locomotion and Color Change. <i>Advanced Optical Materials</i> , 2019 , 7, 1900951	8.1	7
89	Development of Inhibitors against tRNA (mG37) Methyltransferase (TrmD) Using Fragment-Based Approaches. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7210-7232	8.3	15
88	Structural insights into Escherichia coli phosphopantothienoylcysteine synthetase by native ion mobility-mass spectrometry. <i>Biochemical Journal</i> , 2019 , 476, 3125-3139	3.8	3
87	Droplet microfluidics for the highly controlled synthesis of branched gold nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 2440	4.9	70
86	Supramolecular Nested Microbeads as Building Blocks for Macroscopic Self-Healing Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3079-3083	16.4	43
85	Patterned Arrays of Supramolecular Microcapsules. <i>Advanced Functional Materials</i> , 2018 , 28, 1800550	15.6	24
84	Fragment-Based Approach to Targeting Inosine-5'-monophosphate Dehydrogenase (IMPDH) from Mycobacterium tuberculosis. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 2806-2822	8.3	32
83	Supramolecular Nested Microbeads as Building Blocks for Macroscopic Self-Healing Scaffolds. <i>Angewandte Chemie</i> , 2018 , 130, 3133-3137	3.6	6
82	Fragment-based approaches to TB drugs. <i>Parasitology</i> , 2018 , 145, 184-195	2.7	13
81	Cucurbit[7]uril-based high-performance catalytic microreactors. <i>Nanoscale</i> , 2018 , 10, 14835-14839	7.7	4
80	Single-Cell Analysis Identifies Thymic Maturation Delay in Growth-Restricted Neonatal Mice. <i>Frontiers in Immunology</i> , 2018 , 9, 2523	8.4	3
79	Unexpected stability of aqueous dispersions of raspberry-like colloids. <i>Nature Communications</i> , 2018 , 9, 3614	17.4	35
78	Droplet-based microfluidic analysis and screening of single plant cells. <i>PLoS ONE</i> , 2018 , 13, e0196810	3.7	16
77	Cucurbit[n]uril-Based Microcapsules Self-Assembled within Microfluidic Droplets: A Versatile Approach for Supramolecular Architectures and Materials. <i>Accounts of Chemical Research</i> , 2017 , 50, 208-217	24.7	143
76	Biomimetic Supramolecular Polymer Networks Exhibiting both Toughness and Self-Recovery. <i>Advanced Materials</i> , 2017 , 29, 1604951	24	148

75	Surface mediated cooperative interactions of drugs enhance mechanical forces for antibiotic action. <i>Scientific Reports</i> , 2017 , 7, 41206	4.9	7
74	Structural insights into the EthR-DNA interaction using native mass spectrometry. <i>Chemical Communications</i> , 2017 , 53, 3527-3530	5.8	15
73	Fragment Profiling Approach to Inhibitors of the Orphan M. tuberculosis P450 CYP144A1. <i>Biochemistry</i> , 2017 , 56, 1559-1572	3.2	5
72	Fragment Screening against the EthR-DNA Interaction by Native Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7488-7491	16.4	10
71	Fragment Screening against the EthR-DNA Interaction by Native Mass Spectrometry. <i>Angewandte Chemie</i> , 2017 , 129, 7596-7599	3.6	1
70	Tough Supramolecular Polymer Networks with Extreme Stretchability and Fast Room-Temperature Self-Healing. <i>Advanced Materials</i> , 2017 , 29, 1605325	24	234
69	Fragment-Sized EthR Inhibitors Exhibit Exceptionally Strong Ethionamide Boosting Effect in Whole-Cell Mycobacterium tuberculosis Assays. <i>ACS Chemical Biology</i> , 2017 , 12, 1390-1396	4.9	17
68	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the Mycobacterium tuberculosis Cytochrome P450 CYP126A1. <i>Journal of Biological Chemistry</i> , 2017 , 292, 1310-1329	5.4	11
67	Effect of DMSO on Protein Structure and Interactions Assessed by Collision-Induced Dissociation and Unfolding. <i>Analytical Chemistry</i> , 2017 , 89, 9976-9983	7.8	22
66	Bioinspired supramolecular fibers drawn from a multiphase self-assembled hydrogel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8163-8168	11.5	76
65	Aqueous interfacial gels assembled from small molecule supramolecular polymers. <i>Chemical Science</i> , 2017 , 8, 1350-1355	9.4	25
64	Target Identification of Phenotypic Hits Using a Concerted Chemogenomic, Biophysical, and Structural Approach. <i>Frontiers in Pharmacology</i> , 2017 , 8, 681	5.6	14
63	Mass spectrometry for fragment screening. <i>Essays in Biochemistry</i> , 2017 , 61, 465-473	7.6	12
62	Hierarchical Self-Assembly of Cellulose Nanocrystals in a Confined Geometry. <i>ACS Nano</i> , 2016 , 10, 8443-8467	12.2	
61	Structural characterization of CYP144A1 - a cytochrome P450 enzyme expressed from alternative transcripts in Mycobacterium tuberculosis. <i>Scientific Reports</i> , 2016 , 6, 26628	4.9	6
60	Inhibition of Ral GTPases Using a Stapled Peptide Approach. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18310-25	5.4	16
59	Substrate Fragmentation for the Design of M. tuberculosis CYP121 Inhibitors. <i>ChemMedChem</i> , 2016 , 11, 1924-35	3.7	13
58	Insight into Protein Conformation and Subcharging by DMSO from Native Ion Mobility Mass Spectrometry. <i>ChemistrySelect</i> , 2016 , 1, 5686-5690	1.8	6

57	Microcapsule Buckling Triggered by Compression-Induced Interfacial Phase Change. <i>Langmuir</i> , 2016 , 32, 10987-10994	4	14
56	Disrupting the Constitutive, Homodimeric Protein-Protein Interface in CK2 Using a Biophysical Fragment-Based Approach. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14303-14311	16.4	13
55	Engineering Archeal Surrogate Systems for the Development of Protein-Protein Interaction Inhibitors against Human RAD51. <i>Journal of Molecular Biology</i> , 2016 , 428, 4589-4607	6.5	6
54	Spirooxindoles as novel 3D-fragment scaffolds: Synthesis and screening against CYP121 from <i>M. tuberculosis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3735-40	2.9	13
53	Selective small molecule inhibitor of the <i>Mycobacterium tuberculosis</i> fumarate hydratase reveals an allosteric regulatory site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7503-8	11.5	26
52	Structure-activity relationship of the peptide binding-motif mediating the BRCA2:RAD51 protein-protein interaction. <i>FEBS Letters</i> , 2016 , 590, 1094-102	3.8	6
51	Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8811-20	9.5	24
50	Optimization of Inhibitors of <i>Mycobacterium tuberculosis</i> Pantothenate Synthetase Based on Group Efficiency Analysis. <i>ChemMedChem</i> , 2016 , 11, 38-42	3.7	19
49	Fragment-Based Approaches to the Development of <i>Mycobacterium tuberculosis</i> CYP121 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3272-302	8.3	41
48	Mass Spectrometry Reveals Protein Kinase CK2 High-Order Oligomerization via the Circular and Linear Assembly. <i>ACS Chemical Biology</i> , 2016 , 11, 1511-7	4.9	10
47	A fragment merging approach towards the development of small molecule inhibitors of <i>Mycobacterium tuberculosis</i> EthR for use as ethionamide boosters. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 2318-26	3.9	32
46	Structure-Based Identification of Inhibitory Fragments Targeting the p300/CBP-Associated Factor Bromodomain. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 1648-53	8.3	34
45	Monitoring Early-Stage Nanoparticle Assembly in Microdroplets by Optical Spectroscopy and SERS. <i>Small</i> , 2016 , 12, 1788-96	11	27
44	Small molecules, big targets: drug discovery faces the protein-protein interaction challenge. <i>Nature Reviews Drug Discovery</i> , 2016 , 15, 533-50	64.1	555
43	Dual-responsive supramolecular colloidal microcapsules from cucurbit[8]uril molecular recognition in microfluidic droplets. <i>Polymer Chemistry</i> , 2016 , 7, 5996-6002	4.9	16
42	Label-Free Analysis and Sorting of Microalgae and Cyanobacteria in Microdroplets by Intrinsic Chlorophyll Fluorescence for the Identification of Fast Growing Strains. <i>Analytical Chemistry</i> , 2016 , 88, 10445-10451	7.8	29
41	Specific inhibition of CK2 from an anchor outside the active site. <i>Chemical Science</i> , 2016 , 7, 6839-6845	9.4	39
40	Differential Scanning Fluorimetry as Part of a Biophysical Screening Cascade. <i>Methods and Principles in Medicinal Chemistry</i> , 2016 , 139-172	0.4	7

39	The Application of Ligand-Mapping Molecular Dynamics Simulations to the Rational Design of Peptidic Modulators of Protein-Protein Interactions. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3199-210	6.4	25
38	Supramolecular hydrogel microcapsules cucurbit[8]uril host-guest interactions with triggered and UV-controlled molecular permeability. <i>Chemical Science</i> , 2015 , 6, 4929-4933	9.4	65
37	Formation of Cucurbit[8]uril-Based Supramolecular Hydrogel Beads Using Droplet-Based Microfluidics. <i>Biomacromolecules</i> , 2015 , 16, 2743-9	6.9	29
36	Selective Targeting of the TPX2 Site of Importin- β Using Fragment-Based Ligand Design. <i>ChemMedChem</i> , 2015 , 10, 1232-9	3.7	10
35	Supracolloidal Architectures Self-Assembled in Microdroplets. <i>Chemistry - A European Journal</i> , 2015 , 21, 15516-9	4.8	7
34	High-throughput detection of ethanol-producing cyanobacteria in a microdroplet platform. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	47
33	Electrostatically Directed Self-Assembly of Ultrathin Supramolecular Polymer Microcapsules. <i>Advanced Functional Materials</i> , 2015 , 25, 4091-4100	15.6	32
32	Surface-stress sensors for rapid and ultrasensitive detection of active free drugs in human serum. <i>Nature Nanotechnology</i> , 2014 , 9, 225-32	28.7	52
31	Evolution of enzyme catalysts caged in biomimetic gel-shell beads. <i>Nature Chemistry</i> , 2014 , 6, 791-6	17.6	119
30	Pantothenic acid biosynthesis in the parasite <i>Toxoplasma gondii</i> : a target for chemotherapy. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 6345-53	5.9	11
29	Real Time Dual-Channel Multiplex SERS Ultradetection. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 73-9	6.4	23
28	A structure-guided fragment-based approach for the discovery of allosteric inhibitors targeting the lipophilic binding site of transcription factor EthR. <i>Biochemical Journal</i> , 2014 , 458, 387-94	3.8	27
27	Validating fragment-based drug discovery for biological RNAs: lead fragments bind and remodel the TPP riboswitch specifically. <i>Chemistry and Biology</i> , 2014 , 21, 591-5		55
26	Interfacial assembly of dendritic microcapsules with host-guest chemistry. <i>Nature Communications</i> , 2014 , 5, 5772	17.4	69
25	Using a fragment-based approach to target protein-protein interactions. <i>ChemBioChem</i> , 2013 , 14, 332-43	3.8	99
24	Overcoming the limitations of fragment merging: rescuing a strained merged fragment series targeting <i>Mycobacterium tuberculosis</i> CYP121. <i>ChemMedChem</i> , 2013 , 8, 1451-6	3.7	25
23	A three-stage biophysical screening cascade for fragment-based drug discovery. <i>Nature Protocols</i> , 2013 , 8, 2309-24	18.8	103
22	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, 12984-9	11.5	83

21	Pathway-selective sensitization of Mycobacterium tuberculosis for target-based whole-cell screening. <i>Chemistry and Biology</i> , 2012 , 19, 844-54		89
20	One-step fabrication of supramolecular microcapsules from microfluidic droplets. <i>Science</i> , 2012 , 335, 690-4	33.3	365
19	Application of Fragment Screening and Merging to the Discovery of Inhibitors of the Mycobacterium tuberculosis Cytochrome P450 CYP121. <i>Angewandte Chemie</i> , 2012 , 124, 9445-9450	3.6	8
18	Using Ligand-Mapping Simulations to Design a Ligand Selectively Targeting a Cryptic Surface Pocket of Polo-Like Kinase 1. <i>Angewandte Chemie</i> , 2012 , 124, 10225-10228	3.6	6
17	Application of fragment screening and merging to the discovery of inhibitors of the Mycobacterium tuberculosis cytochrome P450 CYP121. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9311-6	16.4	64
16	Fragment-based approaches in drug discovery and chemical biology. <i>Biochemistry</i> , 2012 , 51, 4990-5003	3.2	315
15	Microdroplets in microfluidics: an evolving platform for discoveries in chemistry and biology. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5846-68	16.4	782
14	Drugging challenging targets using fragment-based approaches. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 299-307	9.7	70
13	Application of fragment growing and fragment linking to the discovery of inhibitors of Mycobacterium tuberculosis pantothenate synthetase. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8452-6	16.4	120
12	Inhibition of Mycobacterium tuberculosis pantothenate synthetase by analogues of the reaction intermediate. <i>ChemBioChem</i> , 2008 , 9, 2606-11	3.8	47
11	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	8.3	128
10	Pantothenate biosynthesis in higher plants: advances and challenges. <i>Physiologia Plantarum</i> , 2006 , 126, 319-329	4.6	23
9	Method to determine the spring constant of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2004 , 75, 565-567	1.7	23
8	A Simple Voltage Controlled Enzymatic Nanoreactor Produced in the Tip of a Nanopipet. <i>Nano Letters</i> , 2004 , 4, 1859-1862	11.5	11
7	Building Three-Dimensional Surface Biological Assemblies on the Nanometer Scale. <i>Nano Letters</i> , 2003 , 3, 1517-1520	11.5	47
6	AFM Study on Protein Immobilization on Charged Surfaces at the Nanoscale: Toward the Fabrication of Three-Dimensional Protein Nanostructures. <i>Langmuir</i> , 2003 , 19, 10557-10562	4	75
5	High-throughput crystallography for lead discovery in drug design. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 45-54	64.1	432
4	Use of Atomic Force Microscopy for Making Addresses in DNA Coatings. <i>Langmuir</i> , 2002 , 18, 8278-8281	4	61

3	Direct and sensitive detection of a human virus by rupture event scanning. <i>Nature Biotechnology</i> , 2001 , 19, 833-7	44.5	160
2	A nondestructive technique for determining the spring constant of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2001 , 72, 2340-2343	1.7	33
1	Potential therapeutic targets from <i>Mycobacterium abscessus</i> (Mab): recently reported efforts towards the discovery of novel antibacterial agents to treat Mab infections. <i>RSC Medicinal Chemistry</i> ,	3.5	0