Ben Capuano

List of Publications by Year
in descending order

84 papers	1,958 citations	304602 22 h-index	276775 41 g-index
88 all docs	88 docs citations	88 times ranked	2858 citing authors

#	Article	IF	Citations
1	Personalised medicines for familial hypercalcemia and hyperparathyroidism. Journal of Molecular Endocrinology, 2022, , .	1.1	1
2	Structural Features of Iperoxoâ€“BQCA Muscarinic Acetylcholine Receptor Hybrid Ligands Determining Subtype Selectivity and Efficacy. ACS Chemical Neuroscience, 2022, 13, 97-111.	1.7	4
3	Development of Novel 4â€Arylpyridinâ€2â€one and 6â€Arylpyrimidinâ€4â€one Positive Allosteric Modulators of the M 1 Muscarinic Acetylcholine Receptor. ChemMedChem, 2021, 16, 216-233.	1.6	4
4	Therapeutic Opportunities of Targeting Allosteric Binding Sites on the Calcium-Sensing Receptor. ACS Pharmacology and Translational Science, 2021, 4, 666-679.	2.5	11
5	Enantioenriched Positive Allosteric Modulators Display Distinct Pharmacology at the Dopamine D1 Receptor. Molecules, 2021, 26, 3799.	1.7	2
6	Development of AC265347â€Inspired Calciumâ€Sensing Receptor Agoâ€Positive Allosteric Modulators. ChemMedChem, 2021, 16, 3451-3462.	1.6	1
7	1,3â€Benzodioxoleâ€Modified Noscapine Analogues: Synthesis, Antiproliferative Activity, and Tubulinâ€Bound Structure. ChemMedChem, 2021, 16, 2882-2894.	1.6	6
8	Negative allosteric modulators of the human calciumâ€sensing receptor bind to overlapping and distinct sites within the 7â€transmembrane domain. British Journal of Pharmacology, 2020, 177, 1917-1930.	2.7	12
9	NMR fragment screening reveals a novel small molecule binding site near the catalytic surface of the disulfideâ€“dithiol oxidoreductase enzyme DsbA from Burkholderia pseudomallei. Journal of Biomolecular NMR, 2020, 74, 595-611.	1.6	7
10	Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFiL_X). Journal of Medicinal Chemistry, 2020, 63, 6863-6875.	2.9	16
11	Hexaarylbiimidazoles(HABI)-functionalized lyotropic liquid crystalline systems as visible light-responsive materials. Journal of Colloid and Interface Science, 2020, 579, 379-390.	5.0	11
12	Subtle Modifications to the Indole-2-carboxamide Motif of the Negative Allosteric Modulator N-((trans)-4-(2-(7-Cyano-3,4-dihydroisoquinolin-2(1H)-yl)ethyl)cyclohexyl)-1H-indole-2-carboxamide (SB269652) Yield Dramatic Changes in Pharmacological Activity at the Dopamine D₂ Receptor. Journal of Medicinal Chemistry, 2019, 62, 371-377.	2.9	17
13	Molecular Determinants of the Intrinsic Efficacy of the Antipsychotic Aripiprazole. ACS Chemical Biology, 2019, 14, 1780-1792.	1.6	19
14	A Novel Class ofNâ€Sulfonyl andNâ€Sulfamoyl Noscapine Derivatives that Promote Mitotic Arrest in Cancer Cells. ChemMedChem, 2019, 14, 1968-1981.	1.6	7
15	Structureâ€“Kinetic Profiling of Haloperidol Analogues at the Human Dopamine D₂ Receptor. Journal of Medicinal Chemistry, 2019, 62, 9488-9520.	2.9	12
16	Subtle modifications to a thieno[2,3-d]pyrimidine scaffold yield negative allosteric modulators and agonists of the dopamine D2 receptor. European Journal of Medicinal Chemistry, 2019, 168, 474-490.	2.6	6
17	6-Phenylpyrimidin-4-ones as Positive Allosteric Modulators at the M₁ mAChR: The Determinants of Allosteric Activity. ACS Chemical Neuroscience, 2019, 10, 1099-1114.	1.7	7
18	Overcoming P-Glycoproteinâ€“Mediated Drug Resistance with Noscapine Derivatives. Drug Metabolism and Disposition, 2019, 47, 164-172.	1.7	18

#	Article	IF	Citations
19	A Thieno[2,3-d]pyrimidine Scaffold Is a Novel Negative Allosteric Modulator of the Dopamine D₂ Receptor. Journal of Medicinal Chemistry, 2019, 62, 174-206.	2.9	20
20	The action of a negative allosteric modulator at the dopamine D2 receptor is dependent upon sodium ions. Scientific Reports, 2018, 8, 1208.	1.6	16
21	The structural determinants of the bitopic binding mode of a negative allosteric modulator of the dopamine D 2 receptor. Biochemical Pharmacology, 2018, 148, 315-328.	2.0	26
22	Assessment of the Molecular Mechanisms of Action of Novel 4-Phenylpyridine-2-One and 6-Phenylpyrimidin-4-One Allosteric Modulators at the M₁ Muscarinic Acetylcholine Receptors. Molecular Pharmacology, 2018, 94, 770-783.	1.0	10
23	Synthesis and Pharmacological Evaluation of Heterocyclic Carboxamides: Positive Allosteric Modulators of the M₁ Muscarinic Acetylcholine Receptor with Weak Agonist Activity and Diverse Modulatory Profiles. Journal of Medicinal Chemistry, 2018, 61, 2875-2894.	2.9	14
24	Reply to â€˜Antipsychotics with similar association kinetics at dopamine D2 receptors differ in extrapyramidal side-effectsâ€™. Nature Communications, 2018, 9, 3568.	5.8	2
25	Dual Action Calcium-Sensing Receptor Modulator Unmasks Novel Mode-Switching Mechanism. ACS Pharmacology and Translational Science, 2018, 1, 96-109.	2.5	13
26	Synthesis and Pharmacological Evaluation of Noscapine-Inspired 5-Substituted Tetrahydroisoquinolines as Cytotoxic Agents. Journal of Medicinal Chemistry, 2018, 61, 8444-8456.	2.9	20
27	The cationic small molecule GW4869 is cytotoxic to high phosphatidylserine-expressing myeloma cells. British Journal of Haematology, 2017, 177, 423-440.	1.2	24
28	Crossword puzzles for chemistry education: learning goals beyond vocabulary. Chemistry Education Research and Practice, 2016, 17, 532-554.	1.4	12
29	The dopamine D2 receptor dimer and its interaction with homobivalent antagonists: homology modeling, docking and molecular dynamics. Journal of Molecular Modeling, 2016, 22, 203.	0.8	28
30	Multivalent approaches and beyond: novel tools for the investigation of dopamine D₂ receptor pharmacology. Future Medicinal Chemistry, 2016, 8, 1349-1372.	1.1	8
31	The role of kinetic context in apparent biased agonism at GPCRs. Nature Communications, 2016, 7, 10842.	5.8	270
32	Novel Fused Arylpyrimidinone Based Allosteric Modulators of the M₁ Muscarinic Acetylcholine Receptor. ACS Chemical Neuroscience, 2016, 7, 647-661.	1.7	14
33	4-Phenylpyridin-2-one Derivatives: A Novel Class of Positive Allosteric Modulator of the M₁ Muscarinic Acetylcholine Receptor. Journal of Medicinal Chemistry, 2016, 59, 388-409.	2.9	35
34	Proof of Concept Study for Designed Multiple Ligands Targeting the Dopamine D₂, Serotonin 5-HT_{2A}, and Muscarinic M₁ Acetylcholine Receptors. Journal of Medicinal Chemistry, 2015, 58, 1550-1555.	2.9	14
35	Structureâ€“Activity Study of N-((trans)-4-(2-(7-Cyano-3,4-dihydroisoquinolin-2(1H)-yl)ethyl)cyclohexyl)-1H-indole-2-carboxamide (SB269652), a Bitopic Ligand That Acts as a Negative Allosteric Modulator of the Dopamine D₂ Receptor. Journal of Medicinal Chemistry, 2015, 58, 5287-5307.	2.9	40
36	Synthesis and Pharmacological Evaluation of M₄ Muscarinic Receptor Positive Allosteric Modulators Derived from VU10004. ACS Chemical Neuroscience, 2015, 6, 838-844.	1.7	16

#	Article	IF	Citations
37	Progress Toward the Development of Noscapine and Derivatives as Anticancer Agents. Journal of Medicinal Chemistry, 2015, 58, 5699-5727.	2.9	74
38	A structureâ€“activity relationship study of the positive allosteric modulator LY2033298 at the M₄ muscarinic acetylcholine receptor. MedChemComm, 2015, 6, 1998-2003.	3.5	7
39	Discovery of a Novel Class of Negative Allosteric Modulator of the Dopamine D₂ Receptor Through Fragmentation of a Bitopic Ligand. Journal of Medicinal Chemistry, 2015, 58, 6819-6843.	2.9	47
40	Synthesis and Pharmacological Evaluation of Dual Acting Ligands Targeting the Adenosine A_{2A} and Dopamine D₂ Receptors for the Potential Treatment of Parkinsonâ€™s Disease. Journal of Medicinal Chemistry, 2015, 58, 718-738.	2.9	44
41	Bacterial Fatty Acid Synthesis: Effect of Tween 80 on Antibiotic Potency Against Streptococcus Agalactiae and Methicillin-Resistant Staphylococcus Aureus. Anti-Infective Agents, 2014, 12, 80-84.	0.1	9
42	NMR case study of ropinirole: concentration-dependent effects of nonexchangeable proton resonances. Magnetic Resonance in Chemistry, 2014, 52, 715-718.	1.1	3
43	The Synthesis and Biological Evaluation of Multifunctionalised Derivatives of Noscapine as Cytotoxic Agents. ChemMedChem, 2014, 9, 399-410.	1.6	28
44	Synthesis and Pharmacological Evaluation of Analogues of Benzyl Quinolone Carboxylic Acid (BQCA) Designed to Bind Irreversibly to an Allosteric Site of the M1Muscarinic Acetylcholine Receptor. Journal of Medicinal Chemistry, 2014, 57, 5405-5418.	2.9	27
45	A new mechanism of allostery in a G proteinâ€“coupled receptor dimer. Nature Chemical Biology, 2014, 10, 745-752.	3.9	108
46	Biased Agonism at G Proteinâ€Coupled Receptors: The Promise and the Challengesâ€”A Medicinal Chemistry Perspective. Medicinal Research Reviews, 2014, 34, 1286-1330.	5.0	92
47	Structureâ€“Activity Relationships of Privileged Structures Lead to the Discovery of Novel Biased Ligands at the Dopamine D₂ Receptor. Journal of Medicinal Chemistry, 2014, 57, 4924-4939.	2.9	67
48	Investigation of novel ropinirole analogues: synthesis, pharmacological evaluation and computational analysis of dopamine D2 receptor functionalized congeners and homobivalent ligands. MedChemComm, 2014, 5, 891-898.	3.5	23
49	Development of a Photoactivatable Allosteric Ligand for the M₁ Muscarinic Acetylcholine Receptor. ACS Chemical Neuroscience, 2014, 5, 902-907.	1.7	9
50	The Dopamine D₂ and Adenosine A_{2A} Receptors: Past, Present and Future Trends for the Treatment of Parkinsonâ€™s Disease. Current Medicinal Chemistry, 2014, 21, 3188-3210.	1.2	30
51	Synthesis, functional and binding profile of (R)-apomorphine based homobivalent ligands targeting the dopamine D2 receptor. MedChemComm, 2013, 4, 1290.	3.5	9
52	Synthesis, molecular structure, NMR spectroscopic and computational analysis of a selective adenosine A2A antagonist, ZM 241385. Structural Chemistry, 2013, 24, 1241-1251.	1.0	11
53	A Structureâ€“Activity Analysis of Biased Agonism at the Dopamine D2 Receptor. Journal of Medicinal Chemistry, 2013, 56, 9199-9221.	2.9	80
54	Probing Structural Requirements of Positive Allosteric Modulators of the M₄ Muscarinic Receptor. Journal of Medicinal Chemistry, 2013, 56, 8196-8200.	2.9	20

#	Article	IF	Citations
55	Novel adenosine A2A receptor ligands: A synthetic, functional and computational investigation of selected literature adenosine A2A receptor antagonists for extending into extracellular space. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3427-3433.	1.0	26
56	Synthesis and Pharmacological Profiling of Analogues of Benzyl Quinolone Carboxylic Acid (BQCA) as Allosteric Modulators of the M₁ Muscarinic Receptor. Journal of Medicinal Chemistry, 2013, 56, 5151-5172.	2.9	53
57	Detection and Prevention of Aggregation-based False Positives in STD-NMR-based Fragment Screening. Australian Journal of Chemistry, 2013, 66, 1518.	0.5	9
58	Synthesis and Biological Evaluation of Nâ€Substituted Noscapine Analogues. ChemMedChem, 2012, 7, 2122-2133.	1.6	46
59	Homobivalent Ligands of the Atypical Antipsychotic Clozapine: Design, Synthesis, and Pharmacological Evaluation. Journal of Medicinal Chemistry, 2012, 55, 1622-1634.	2.9	39
60	Simplified platensimycin analogues as antibacterial agents. MedChemComm, 2012, 3, 244-249.	3.5	1
61	Synthesis and SAR study of 4-arylpiperidines and 4-aryl-1,2,3,6-tetrahydropyridines as 5-HT2C agonists. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2560-2564.	1.0	7
62	The design, synthesis and biological evaluation of novel URB602 analogues as potential monoacylglycerol lipase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 6782-6787.	1.0	15
63	Design Strategies for Bivalent Ligands Targeting GPCRs. ChemMedChem, 2011, 6, 963-974.	1.6	92
64	Characterization of the N-Methyltransferase Activities of the Multifunctional Polypeptide Cyclosporin Synthetase. Chemistry and Biology, 2011, 18, 464-475.	6.2	21
65	New hybrids of clozapine and haloperidol and their isosteric analogues: synthesis, X-ray crystallography, conformational analysis and preliminary pharmacological evaluation. Structural Chemistry, 2010, 21, 613-628.	1.0	6
66	The Synthesis and Preliminary Pharmacological Evaluation of a Series of Substituted 4'-Phenoxypropyl Analogues of the Atypical Antipsychotic Clozapine. Australian Journal of Chemistry, 2010, 63, 116.	0.5	2
67	The Application of the Schmidt Reaction and Beckmann Rearrangement to the Synthesis of Bicyclic Lactams: Some Mechanistic Considerations. Australian Journal of Chemistry, 2010, 63, 211.	0.5	18
68	Homology Modeling and Docking Evaluation of Aminergic G Protein-Coupled Receptors. Journal of Chemical Information and Modeling, 2010, 50, 626-637.	2.5	91
69	Conformational Analysis of Drug Molecules: A Practical Exercise in the Medicinal Chemistry Course. Journal of Chemical Education, 2009, 86, 477.	1.1	17
70	2,2,7-Trichloro-3,4-dihydronaphthalen-1(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2254-o2254.	0.2	0
71	Di-tert-butylN-[2,6-bis(methoxymethoxy)phenyl]iminodiacetate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o819-o819.	0.2	1
72	Synthesis and Preliminary Pharmacological Evaluation of 4â€²-Arylalkyl Analogues of Clozapine. IV. The Effects of Aromaticity and Isosteric Replacement. Australian Journal of Chemistry, 2008, 61, 930.	0.5	11

#	Article	IF	Citations
73	8-Chloro-5-(4-phenethylpiperazin-1-yl)pyrido[2,3-b][1,5]benzoxazepine. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1865-o1866.	0.2	0
74	Aminimides as Potential CNS-Acting Agents. III. Design, Synthesis, and Receptor Binding of Aminimide Analogues of Dopamine, Serotonin, Morphine, and Nicotine. Australian Journal of Chemistry, 2008, 61, 422.	0.5	5
75	Aminimides as Potential CNS Acting Agents. II Design, Synthesis, and Receptor Binding of 4â€²-Arylalkyl Aminimide Analogues of Clozapine as Prospective Novel Antipsychotics. Australian Journal of Chemistry, 2008, 61, 5.	0.5	6
76	Aminimides as Potential CNS Acting Agents. I. Design, Synthesis, and Receptor Binding of 4â€²-Aryl Aminimide Analogues of Clozapine as Prospective Novel Antipsychotics. Australian Journal of Chemistry, 2007, 60, 673.	0.5	9
77	The First Aminimide Synthesis from Benzoyl Azide and Pyridine. Australian Journal of Chemistry, 2007, 60, 214.	0.5	8
78	Synthesis and Preliminary Pharmacological Evaluation of 4â€²-Arylalkyl Analogues of Clozapine. III. Replacement of the Tricyclic Nucleus with a Bicyclic Template. Australian Journal of Chemistry, 2007, 60, 928.	0.5	4
79	5,5â€²-(Piperazine-1,4-diyl)bis(8-chloropyrido[2,3-b][1,5]benzoxazepine). Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o5434-o5436.	0.2	1
80	4-Chloro-N-[4-(8-chloro-5H-dibenzo[b,e][1,4]diazepin-11-yl)-1-methylpiperazinio]benzamidate dichloromethane solvate. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o20-o22.	0.2	1
81	Synthesis of 8-chloro-11-(4-(3-(p-tolyloxy)propyl)piperazin-1-yl)-5H-dibenzo[b,e][1,4]diazepine. MolBank, 2005, 2005, M454.	0.2	0
82	2-Methyl-4-(4-methylpiperazin-1-yl)-10H-thieno[2,3-b][1,5]benzodiazepine methanol solvate monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1367-o1369.	0.2	16
83	Synthesis and Preliminary Pharmacological Evaluation of 4â€²-Arylalkyl Analogues of Clozapine. II. Effect of the Nature and Length of the Linker. Australian Journal of Chemistry, 2003, 56, 875.	0.5	20
84	8-Chloro-11-[4-(8-chloro-5H-dibenzo[b,e][1,4]diazepin-11-yl)piperazino]-5H-dibenzo[b,e][1,4]diazepine. Molecules, 1999, 4, 329-332.	1.7	1