

Ben Capuano

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/207372/publications.pdf>

Version: 2024-02-01

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	The role of kinetic context in apparent biased agonism at GPCRs. <i>Nature Communications</i> , 2016, 7, 10842.	5.8	270
2	A new mechanism of allostery in a G protein-coupled receptor dimer. <i>Nature Chemical Biology</i> , 2014, 10, 745-752.	3.9	108
3	Design Strategies for Bivalent Ligands Targeting GPCRs. <i>ChemMedChem</i> , 2011, 6, 963-974.	1.6	92
4	Biased Agonism at G Protein-Coupled Receptors: The Promise and the Challenges—A Medicinal Chemistry Perspective. <i>Medicinal Research Reviews</i> , 2014, 34, 1286-1330.	5.0	92
5	Homology Modeling and Docking Evaluation of Aminergic G Protein-Coupled Receptors. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 626-637.	2.5	91
6	A Structure-Activity Analysis of Biased Agonism at the Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 9199-9221.	2.9	80
7	Progress Toward the Development of Noscipine and Derivatives as Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5699-5727.	2.9	74
8	Structure-Activity Relationships of Privileged Structures Lead to the Discovery of Novel Biased Ligands at the Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4924-4939.	2.9	67
9	Synthesis and Pharmacological Profiling of Analogues of Benzyl Quinolone Carboxylic Acid (BQCA) as Allosteric Modulators of the M ₁ Muscarinic Receptor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5151-5172.	2.9	53
10	Discovery of a Novel Class of Negative Allosteric Modulator of the Dopamine D ₂ Receptor Through Fragmentation of a Bitopic Ligand. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6819-6843.	2.9	47
11	Synthesis and Biological Evaluation of <i>N</i> -Substituted Noscipine Analogues. <i>ChemMedChem</i> , 2012, 7, 2122-2133.	1.6	46
12	Synthesis and Pharmacological Evaluation of Dual Acting Ligands Targeting the Adenosine A _{2A} and Dopamine D ₂ Receptors for the Potential Treatment of Parkinson's Disease. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 718-738.	2.9	44
13	Structure-Activity Study of <i>N</i> -((<i>trans</i> -4-(2-(7-Cyano-3,4-dihydroisoquinolin-2(1 <i>H</i>)-yl)ethyl)cyclohexyl)-1 <i>H</i> -indole-2-carboxamide (SB269652), a Bitopic Ligand That Acts as a Negative Allosteric Modulator of the Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5287-5307.	2.9	40
14	Homobivalent Ligands of the Atypical Antipsychotic Clozapine: Design, Synthesis, and Pharmacological Evaluation. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1622-1634.	2.9	39
15	4-Phenylpyridin-2-one Derivatives: A Novel Class of Positive Allosteric Modulator of the M ₁ Muscarinic Acetylcholine Receptor. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 388-409.	2.9	35
16	The Dopamine D ₂ and Adenosine A _{2A} Receptors: Past, Present and Future Trends for the Treatment of Parkinson's Disease. <i>Current Medicinal Chemistry</i> , 2014, 21, 3188-3210.	1.2	30
17	The Synthesis and Biological Evaluation of Multifunctionalised Derivatives of Noscipine as Cytotoxic Agents. <i>ChemMedChem</i> , 2014, 9, 399-410.	1.6	28
18	The dopamine D ₂ receptor dimer and its interaction with homobivalent antagonists: homology modeling, docking and molecular dynamics. <i>Journal of Molecular Modeling</i> , 2016, 22, 203.	0.8	28

#	ARTICLE	IF	CITATIONS
19	Synthesis and Pharmacological Evaluation of Analogues of Benzyl Quinolone Carboxylic Acid (BQCA) Designed to Bind Irreversibly to an Allosteric Site of the M1 Muscarinic Acetylcholine Receptor. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5405-5418.	2.9	27
20	Novel adenosine A2A receptor ligands: A synthetic, functional and computational investigation of selected literature adenosine A2A receptor antagonists for extending into extracellular space. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3427-3433.	1.0	26
21	The structural determinants of the bitopic binding mode of a negative allosteric modulator of the dopamine D2 receptor. <i>Biochemical Pharmacology</i> , 2018, 148, 315-328.	2.0	26
22	The cationic small molecule GW4869 is cytotoxic to high phosphatidylserine-expressing myeloma cells. <i>British Journal of Haematology</i> , 2017, 177, 423-440.	1.2	24
23	Investigation of novel ropinirole analogues: synthesis, pharmacological evaluation and computational analysis of dopamine D2 receptor functionalized congeners and homobivalent ligands. <i>MedChemComm</i> , 2014, 5, 891-898.	3.5	23
24	Characterization of the N-Methyltransferase Activities of the Multifunctional Polypeptide Cyclosporin Synthetase. <i>Chemistry and Biology</i> , 2011, 18, 464-475.	6.2	21
25	Synthesis and Preliminary Pharmacological Evaluation of 4- ² -Arylalkyl Analogues of Clozapine. II. Effect of the Nature and Length of the Linker. <i>Australian Journal of Chemistry</i> , 2003, 56, 875.	0.5	20
26	Probing Structural Requirements of Positive Allosteric Modulators of the M ₄ Muscarinic Receptor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8196-8200.	2.9	20
27	Synthesis and Pharmacological Evaluation of Noscaine-Inspired 5-Substituted Tetrahydroisoquinolines as Cytotoxic Agents. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8444-8456.	2.9	20
28	A Thieno[2,3- <i>d</i>]pyrimidine Scaffold Is a Novel Negative Allosteric Modulator of the Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 174-206.	2.9	20
29	Molecular Determinants of the Intrinsic Efficacy of the Antipsychotic Aripiprazole. <i>ACS Chemical Biology</i> , 2019, 14, 1780-1792.	1.6	19
30	The Application of the Schmidt Reaction and Beckmann Rearrangement to the Synthesis of Bicyclic Lactams: Some Mechanistic Considerations. <i>Australian Journal of Chemistry</i> , 2010, 63, 211.	0.5	18
31	Overcoming P-Glycoprotein-Mediated Drug Resistance with Noscaine Derivatives. <i>Drug Metabolism and Disposition</i> , 2019, 47, 164-172.	1.7	18
32	Conformational Analysis of Drug Molecules: A Practical Exercise in the Medicinal Chemistry Course. <i>Journal of Chemical Education</i> , 2009, 86, 477.	1.1	17
33	Subtle Modifications to the Indole-2-carboxamide Motif of the Negative Allosteric Modulator <i>N</i> -((<i>trans</i>)-4-(2-(7-Cyano-3,4-dihydroisoquinolin-2(1 <i>H</i>)-yl)ethyl)cyclohexyl)-1 <i>H</i> -indole-2-carboxamide (SB269652) Yield Dramatic Changes in Pharmacological Activity at the Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 371-377.	2.9	17
34	2-Methyl-4-(4-methylpiperazin-1-yl)-10 <i>H</i> -thieno[2,3- <i>b</i>][1,5]benzodiazepine methanol solvate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o1367-o1369.	0.2	16
35	Synthesis and Pharmacological Evaluation of M ₄ Muscarinic Receptor Positive Allosteric Modulators Derived from VU10004. <i>ACS Chemical Neuroscience</i> , 2015, 6, 838-844.	1.7	16
36	The action of a negative allosteric modulator at the dopamine D2 receptor is dependent upon sodium ions. <i>Scientific Reports</i> , 2018, 8, 1208.	1.6	16

#	ARTICLE	IF	CITATIONS
37	Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFIL _X). <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6863-6875.	2.9	16
38	The design, synthesis and biological evaluation of novel URB602 analogues as potential monoacylglycerol lipase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6782-6787.	1.0	15
39	Proof of Concept Study for Designed Multiple Ligands Targeting the Dopamine D ₂ , Serotonin 5-HT _{2A} , and Muscarinic M ₁ Acetylcholine Receptors. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1550-1555.	2.9	14
40	Novel Fused Arylpyrimidinone Based Allosteric Modulators of the M ₁ Muscarinic Acetylcholine Receptor. <i>ACS Chemical Neuroscience</i> , 2016, 7, 647-661.	1.7	14
41	Synthesis and Pharmacological Evaluation of Heterocyclic Carboxamides: Positive Allosteric Modulators of the M ₁ Muscarinic Acetylcholine Receptor with Weak Agonist Activity and Diverse Modulatory Profiles. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 2875-2894.	2.9	14
42	Dual Action Calcium-Sensing Receptor Modulator Unmasks Novel Mode-Switching Mechanism. <i>ACS Pharmacology and Translational Science</i> , 2018, 1, 96-109.	2.5	13
43	Crossword puzzles for chemistry education: learning goals beyond vocabulary. <i>Chemistry Education Research and Practice</i> , 2016, 17, 532-554.	1.4	12
44	Structure-kinetic Profiling of Haloperidol Analogues at the Human Dopamine D ₂ Receptor. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9488-9520.	2.9	12
45	Negative allosteric modulators of the human calcium-sensing receptor bind to overlapping and distinct sites within the transmembrane domain. <i>British Journal of Pharmacology</i> , 2020, 177, 1917-1930.	2.7	12
46	Synthesis and Preliminary Pharmacological Evaluation of 4 ² -Arylalkyl Analogues of Clozapine. IV. The Effects of Aromaticity and Isosteric Replacement. <i>Australian Journal of Chemistry</i> , 2008, 61, 930.	0.5	11
47	Synthesis, molecular structure, NMR spectroscopic and computational analysis of a selective adenosine A _{2A} antagonist, ZM 241385. <i>Structural Chemistry</i> , 2013, 24, 1241-1251.	1.0	11
48	Hexaarylbiimidazoles(HABI)-functionalized lyotropic liquid crystalline systems as visible light-responsive materials. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 379-390.	5.0	11
49	Therapeutic Opportunities of Targeting Allosteric Binding Sites on the Calcium-Sensing Receptor. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 666-679.	2.5	11
50	Assessment of the Molecular Mechanisms of Action of Novel 4-Phenylpyridine-2-One and 6-Phenylpyrimidin-4-One Allosteric Modulators at the M ₁ Muscarinic Acetylcholine Receptors. <i>Molecular Pharmacology</i> , 2018, 94, 770-783.	1.0	10
51	Aminimides as Potential CNS Acting Agents. I. Design, Synthesis, and Receptor Binding of 4 ² -Aryl Aminimide Analogues of Clozapine as Prospective Novel Antipsychotics. <i>Australian Journal of Chemistry</i> , 2007, 60, 673.	0.5	9
52	Synthesis, functional and binding profile of (R)-apomorphine based homobivalent ligands targeting the dopamine D ₂ receptor. <i>MedChemComm</i> , 2013, 4, 1290.	3.5	9
53	Detection and Prevention of Aggregation-based False Positives in STD-NMR-based Fragment Screening. <i>Australian Journal of Chemistry</i> , 2013, 66, 1518.	0.5	9
54	Bacterial Fatty Acid Synthesis: Effect of Tween 80 on Antibiotic Potency Against Streptococcus Agalactiae and Methicillin-Resistant Staphylococcus Aureus. <i>Anti-Infective Agents</i> , 2014, 12, 80-84.	0.1	9

#	ARTICLE	IF	CITATIONS
55	Development of a Photoactivatable Allosteric Ligand for the M ₁ Muscarinic Acetylcholine Receptor. <i>ACS Chemical Neuroscience</i> , 2014, 5, 902-907.	1.7	9
56	The First Aminimide Synthesis from Benzoyl Azide and Pyridine. <i>Australian Journal of Chemistry</i> , 2007, 60, 214.	0.5	8
57	Multivalent approaches and beyond: novel tools for the investigation of dopamine D ₂ receptor pharmacology. <i>Future Medicinal Chemistry</i> , 2016, 8, 1349-1372.	1.1	8
58	Synthesis and SAR study of 4-arylpiperidines and 4-aryl-1,2,3,6-tetrahydropyridines as 5-HT _{2C} agonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2560-2564.	1.0	7
59	A structure-activity relationship study of the positive allosteric modulator LY2033298 at the M ₄ muscarinic acetylcholine receptor. <i>MedChemComm</i> , 2015, 6, 1998-2003.	3.5	7
60	A Novel Class of N-Sulfonyl and N-Sulfamoyl Noscapine Derivatives that Promote Mitotic Arrest in Cancer Cells. <i>ChemMedChem</i> , 2019, 14, 1968-1981.	1.6	7
61	6-Phenylpyrimidin-4-ones as Positive Allosteric Modulators at the M ₁ mAChR: The Determinants of Allosteric Activity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1099-1114.	1.7	7
62	NMR fragment screening reveals a novel small molecule binding site near the catalytic surface of the disulfide dithiol oxidoreductase enzyme DsbA from <i>Burkholderia pseudomallei</i> . <i>Journal of Biomolecular NMR</i> , 2020, 74, 595-611.	1.6	7
63	Aminimides as Potential CNS Acting Agents. II Design, Synthesis, and Receptor Binding of 4-Arylalkyl Aminimide Analogues of Clozapine as Prospective Novel Antipsychotics. <i>Australian Journal of Chemistry</i> , 2008, 61, 5.	0.5	6
64	New hybrids of clozapine and haloperidol and their isosteric analogues: synthesis, X-ray crystallography, conformational analysis and preliminary pharmacological evaluation. <i>Structural Chemistry</i> , 2010, 21, 613-628.	1.0	6
65	Subtle modifications to a thieno[2,3-d]pyrimidine scaffold yield negative allosteric modulators and agonists of the dopamine D ₂ receptor. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 474-490.	2.6	6
66	1,3-Benzodioxole-Modified Noscapine Analogues: Synthesis, Antiproliferative Activity, and Tubulin-Bound Structure. <i>ChemMedChem</i> , 2021, 16, 2882-2894.	1.6	6
67	Aminimides as Potential CNS-Acting Agents. III. Design, Synthesis, and Receptor Binding of Aminimide Analogues of Dopamine, Serotonin, Morphine, and Nicotine. <i>Australian Journal of Chemistry</i> , 2008, 61, 422.	0.5	5
68	Synthesis and Preliminary Pharmacological Evaluation of 4-Arylalkyl Analogues of Clozapine. III. Replacement of the Tricyclic Nucleus with a Bicyclic Template. <i>Australian Journal of Chemistry</i> , 2007, 60, 928.	0.5	4
69	Development of Novel 4-Arylpyridin-2-one and 6-Arylpyrimidin-4-one Positive Allosteric Modulators of the M ₁ Muscarinic Acetylcholine Receptor. <i>ChemMedChem</i> , 2021, 16, 216-233.	1.6	4
70	Structural Features of Iperoxo-BQCA Muscarinic Acetylcholine Receptor Hybrid Ligands Determining Subtype Selectivity and Efficacy. <i>ACS Chemical Neuroscience</i> , 2022, 13, 97-111.	1.7	4
71	NMR case study of ropinirole: concentration-dependent effects of nonexchangeable proton resonances. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 715-718.	1.1	3
72	The Synthesis and Preliminary Pharmacological Evaluation of a Series of Substituted 4'-Phenoxypropyl Analogues of the Atypical Antipsychotic Clozapine. <i>Australian Journal of Chemistry</i> , 2010, 63, 116.	0.5	2

#	ARTICLE	IF	CITATIONS
73	Reply to "Antipsychotics with similar association kinetics at dopamine D2 receptors differ in extrapyramidal side-effects". Nature Communications, 2018, 9, 3568.	5.8	2
74	Enantioenriched Positive Allosteric Modulators Display Distinct Pharmacology at the Dopamine D1 Receptor. Molecules, 2021, 26, 3799.	1.7	2
75	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
76	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
77	5,5'-Bis(8-chloropyrido[2,3-b][1,5]benzoxazepine)-1,4-bis(piperazine-1,4-diyl). Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o5434-o5436.	0.2	1
78	Simplified platensimycin analogues as antibacterial agents. MedChemComm, 2012, 3, 244-249.	3.5	1
79	Development of AC265347-Inspired Calcium-Sensing Receptor Ago-Positive Allosteric Modulators. ChemMedChem, 2021, 16, 3451-3462.	1.6	1
80	Di-tert-butyl-N-[2,6-bis(methoxymethoxy)phenyl]iminodiacetate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o819-o819.	0.2	1
81	Personalised medicines for familial hypercalcemia and hyperparathyroidism. Journal of Molecular Endocrinology, 2022, , .	1.1	1
82	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
83	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
84	2,2,7-Trichloro-3,4-dihydronaphthalen-1(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2254-o2254.	0.2	0