Dominique Bonnet

List of Publications by Year
in descending order

69 papers	1,944 citations	218677 26 h-index	276875 41 g-index
74 all docs	74 docs citations	74 times ranked	2963 citing authors

#	Article	IF	Citations
1	Functional Rescue of a Nephrogenic Diabetes Insipidus Causing Mutation in the V2 Vasopressin Receptor by Specific Antagonist and Agonist Pharmacochaperones. Frontiers in Pharmacology, 2022, 13, 811836.	3.5	6
2	Selfâ€organization Properties of a GPCRâ€Binding Peptide with a Fluorinated Tail Studied by Fluorine NMR Spectroscopy. ChemBioChem, 2021, 22, 657-661.	2.6	3
3	Nile Red-Based GPCR Ligands as Ultrasensitive Probes of the Local Lipid Microenvironment of the Receptor. ACS Chemical Biology, 2021, 16, 651-660.	3.4	12
4	LIT01-196, a Metabolically Stable Apelin-17 Analog, Normalizes Blood Pressure in Hypertensive DOCA-Salt Rats via a NO Synthase-dependent Mechanism. Frontiers in Pharmacology, 2021, 12, 715095.	3.5	6
5	A metabolically stable apelin-17 analog decreases AVP-induced antidiuresis and improves hyponatremia. Nature Communications, 2021, 12, 305.	12.8	15
6	A Selective Neutraligand for CXCL12/SDF-1Î± With Beneficial Regulatory Functions in MRL/Lpr Lupus Prone Mice. Frontiers in Pharmacology, 2021, 12, 752194.	3.5	3
7	Neutralization of CXCL12 attenuates established pulmonary hypertension in rats. Cardiovascular Research, 2020, 116, 686-697.	3.8	54
8	Endocyclic Enamides Derived from Azaâ€Diketopiperazines as Olefin Partners in Povarov Reaction: An Access to Tetracyclic Nâ€Heterocycles. European Journal of Organic Chemistry, 2020, 2020, 7385-7395.	2.4	4
9	A near-infrared fluorogenic dimer enables background-free imaging of endogenous GPCRs in living mice. Chemical Science, 2020, 11, 6824-6829.	7.4	15
10	Pharmacological tools to mobilise mesenchymal stromal cells into the blood promote bone formation after surgery. Npj Regenerative Medicine, 2020, 5, 3.	5.2	6
11	Three cheers for nitrogen: aza-DKPs, the aza analogues of 2,5-diketopiperazines. RSC Advances, 2020, 10, 43358-43370.	3.6	3
12	Chemoselective Acylation of Hydrazinopeptides to Access Fluorescent Probes for Time-Resolved FRET Assays on GPCRs. Methods in Molecular Biology, 2019, 1947, 137-147.	0.9	0
13	Time-Resolved FRET-Based Assays to Characterize G Protein-Coupled Receptor Hetero-oligomer Pharmacology. Methods in Molecular Biology, 2019, 1947, 151-168.	0.9	3
14	From the Promiscuous Asenapine to Potent Fluorescent Ligands Acting at a Series of Aminergic G-Protein-Coupled Receptors. Journal of Medicinal Chemistry, 2018, 61, 174-188.	6.4	13
15	Versatile Synthetic Approach for Selective Diversification of Bicyclic Aza-Diketopiperazines. ACS Omega, 2018, 3, 15182-15192.	3.5	4
16	LIT-001, the First Nonpeptide Oxytocin Receptor Agonist that Improves Social Interaction in a Mouse Model of Autism. Journal of Medicinal Chemistry, 2018, 61, 8670-8692.	6.4	33
17	Discovery of a Locally and Orally Active CXCL12 Neutraligand (LIT-927) with Anti-inflammatory Effect in a Murine Model of Allergic Airway Hypereosinophilia. Journal of Medicinal Chemistry, 2018, 61, 7671-7686.	6.4	26
18	Comparative Study of the Synthesis and Structural and Physicochemical Properties of Diketopiperazines vs Aza-diketopiperazines. Journal of Organic Chemistry, 2017, 82, 3239-3244.	3.2	7

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19	A Timeâ€Resolved FRET Cellâ€Based Binding Assay for the Apelin Receptor. ChemMedChem, 2017, 12, 925-931.	3.2	10
20	Development of original metabolically stable apelinâ€17 analogs with diuretic and cardiovascular effects. FASEB Journal, 2017, 31, 687-700.	0.5	48
21	Two distinct CXCR4 antagonists mobilize progenitor cells in mice by different mechanisms. Blood Advances, 2017, 1, 1934-1943.	5.2	19
22	Decreased Migration of Dendritic Cells into the Jugular-Nodose Ganglia by the CXCL12 Neutraligand Chalcone 4 in Ovalbumin-Sensitized Asthmatic Mice. NeuroImmunoModulation, 2017, 24, 331-340.	1.8	6
23	Neutralization of CXCL12 reverses established pulmonary hypertension in the sugen-hypoxia rat model. , 2017, , .		0
24	Convenient Access to Fluorescent Probes by Chemoselective Acylation of Hydrazinopeptides: Application to the Synthesis of the First Faraâ€Red Ligand for Apelin Receptor Imaging. Chemistry - A European Journal, 2016, 22, 1399-1405.	3.3	9
25	A step-economical multicomponent synthesis of 3D-shaped aza-diketopiperazines and their drug-like chemical space analysis. Organic and Biomolecular Chemistry, 2016, 14, 8859-8863.	2.8	9
26	Pushâ€“pull dioxaborine as fluorescent molecular rotor: far-red fluorogenic probe for ligandâ€“receptor interactions. Journal of Materials Chemistry C, 2016, 4, 3002-3009.	5.5	77
27	A strategy to discover decoy chemokine ligands with an anti-inflammatory activity. Scientific Reports, 2015, 5, 14746.	3.3	22
28	Increasing cellular immunogenicity to peptide-based vaccine candidates using a fluorocarbon antigen delivery system. Vaccine, 2015, 33, 1071-1076.	3.8	5
29	Selective Nonpeptidic Fluorescent Ligands for Oxytocin Receptor: Design, Synthesis, and Application to Time-Resolved FRET Binding Assay. Journal of Medicinal Chemistry, 2015, 58, 2547-2552.	6.4	19
30	Squaraine as a bright, stable and environment-sensitive far-red label for receptor-specific cellular imaging. Chemical Communications, 2015, 51, 2960-2963.	4.1	47
31	New Fluorescein Precursors for Live Bacteria Detection. Analytical Chemistry, 2015, 87, 8858-8866.	6.5	27
32	Fluorogenic Squaraine Dimers with Polarity-Sensitive Folding As Bright Far-Red Probes for Background-Free Bioimaging. Journal of the American Chemical Society, 2015, 137, 405-412.	13.7	87
33	Time-Resolved FRET Binding Assay to Investigate Hetero-Oligomer Binding Properties: Proof of Concept with Dopamine D₁/D₃ Heterodimer. ACS Chemical Biology, 2015, 10, 466-474.	3.4	39
34	Red Fluorescent Turnâ€On Ligands for Imaging and Quantifying G Proteinâ€Coupled Receptors in Living Cells. ChemBioChem, 2014, 15, 359-363.	2.6	47
35	Diastereoselective synthesis of novel aza-diketopiperazines via a domino cyclohydrocarbonylation/addition process. Chemical Communications, 2014, 50, 9657-9660.	4.1	15
36	Structureâ€“Activity Relationship Studies toward the Discovery of Selective Apelin Receptor Agonists. Journal of Medicinal Chemistry, 2014, 57, 2908-2919.	6.4	27

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37	Exploration of the Orthosteric/Allosteric Interface in Human M1 Muscarinic Receptors by Bitopic Fluorescent Ligands. Molecular Pharmacology, 2013, 84, 71-85.	2.3	24
38	An Antedrug of the CXCL12 Neutraligand Blocks Experimental Allergic Asthma without Systemic Effect in Mice. Journal of Biological Chemistry, 2013, 288, 11865-11876.	3.4	32
39	Prodrugs of a CXC Chemokine-12 (CXCL12) Neutraligand Prevent Inflammatory Reactions in an Asthma Model in Vivo. ACS Medicinal Chemistry Letters, 2012, 3, 10-14.	2.8	26
40	Fluorescent Derivatives of AC-42 To Probe Bitopic Orthosteric/Allosteric Binding Mechanisms on Muscarinic M1 Receptors. Journal of Medicinal Chemistry, 2012, 55, 2125-2143.	6.4	33
41	Selective Fluorescent Nonpeptidic Antagonists For Vasopressin V₂GPCR: Application To Ligand Screening and Oligomerization Assays.. Journal of Medicinal Chemistry, 2012, 55, 8588-8602.	6.4	52
42	Proper desensitization of CXCR4 is required for lymphocyte development and peripheral compartmentalization in mice. Blood, 2012, 119, 5722-5730.	1.4	105
43	Involvement of the TGFÎ² pathway in the regulation of Î±₅Î²₁ integrins by caveolinâ€1 in human glioblastoma. International Journal of Cancer, 2012, 131, 601-611.	5.1	29
44	Combinatorial Aid for Underprivileged Scaffolds: Solution and Solid-phase Strategies for a Rapid and Efficient Access To Novel Aza-diketopiperazines (Aza-DKP). ACS Combinatorial Science, 2012, 14, 323-334.	3.8	26
45	Identification and pharmacological properties of E339â€“3D6, the first nonpeptidic apelin receptor agonist. FASEB Journal, 2010, 24, 1506-1517.	0.5	95
46	Neutralizing endogenous chemokines with small molecules. , 2010, 126, 39-55.		28
47	Î±5Î²1 integrin antagonists reduce chemotherapyâ€induced premature senescence and facilitate apoptosis in human glioblastoma cells. International Journal of Cancer, 2010, 127, 1240-1248.	5.1	65
48	Homodimerization of the Death-Associated Protein Kinase Catalytic Domain: Development of a New Small Molecule Fluorescent Reporter. PLoS ONE, 2010, 5, e14120.	2.5	12
49	Biased Agonist Pharmacochaperones of the AVP V2 Receptor May Treat Congenital Nephrogenic Diabetes Insipidus. Journal of the American Society of Nephrology: JASN, 2009, 20, 2190-2203.	6.1	93
50	Solidâ€Phase Organic Tagging Resins for Labeling Biomolecules by 1,3â€Dipolar Cycloaddition: Application to the Synthesis of a Fluorescent Nonâ€Peptidic Vasopressin Receptor Ligand. Chemistry - A European Journal, 2008, 14, 6247-6254.	3.3	26
51	Small Neutralizing Molecules to Inhibit Actions of the Chemokine CXCL12. Journal of Biological Chemistry, 2008, 283, 23189-23199.	3.4	85
52	Convenient Method To Access New 4,4-Dialkoxy- and 4,4-Diaryloxy-diaza-s-indacene Dyes:Â Synthesis and Spectroscopic Evaluation. Journal of Organic Chemistry, 2007, 72, 269-272.	3.2	152
53	Solid-Phase Preparation of a Pilot Library Derived from the 2,3,4,5-Tetrahydro-1H-benzo[b]azepin-5-amine Scaffold. ACS Combinatorial Science, 2007, 9, 487-500.	3.3	33
54	A Rapid and Versatile Method to Label Receptor Ligands Using â€œClickâ€•Chemistry:Â Validation with the Muscarinic M1 Antagonist Pirenzepine. Bioconjugate Chemistry, 2006, 17, 1618-1623.	3.6	36

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55	Use of a fluorescent polarization based high throughput assay to identify new Calmodulin ligands. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1250-1255.	4.1	18
56	Effect of Glycoamphiphiles on the Solubilization and Dendritic Cell Uptake of a Lipopeptide:â€‰ A Preliminary Study. Molecular Pharmaceutics, 2005, 2, 420-427.	4.6	2
57	Efficient preparation of carbohydrate- and related polyol-amphiphiles by hydrazone ligation. Tetrahedron Letters, 2004, 45, 3451-3454.	1.4	7
58	Solid-Phase Functionalization of Peptides by an Î±-Hydrazinoacetyl Group. Journal of Organic Chemistry, 2003, 68, 7033-7040.	3.2	31
59	Simultaneous Lipidation of a Characterized Peptide Mixture by Chemoselective Ligation. Bioconjugate Chemistry, 2003, 14, 494-499.	3.6	25
60	Solid-Phase Synthesis of Tetrahydro-Î²-carbolinehydantoins via the N-Acyliminium Pictetâ^'Spengler Reaction and Cyclative Cleavage. ACS Combinatorial Science, 2002, 4, 546-548.	3.3	50
61	Chemoselective Acylation of Fully Deprotected Hydrazino Acetyl Peptides. Application to the Synthesis of Lipopeptides. Journal of Organic Chemistry, 2001, 66, 443-449.	3.2	30
62	Synthesis by Chemoselective Ligation and Biological Evaluation of Novel Cell-Permeable PKC-Î¶ Pseudosubstrate Lipopeptides. Journal of Medicinal Chemistry, 2001, 44, 468-471.	6.4	14
63	Synthesis of an amphiphilic aldehyde using as a key step the condensation of a lipophilic glyoxylic acid amide derivative with tris(hydroxymethyl)aminomethane. Tetrahedron Letters, 2001, 42, 1875-1877.	1.4	10
64	A novel lipophilic glyoxylic acid derivative for the lipidation of peptides using salt-free hydrazone ligation. Tetrahedron Letters, 2000, 41, 10003-10007.	1.4	14
65	Chemoselective acylation of hydrazinopeptides: a novel and mild method for the derivatization of peptides with sensitive fatty acids. Tetrahedron Letters, 2000, 41, 45-48.	1.4	19
66	A novel and mild solid phase hydroperoxydeamination reaction. Tetrahedron Letters, 1999, 40, 7315-7318.	1.4	12
67	Synthesis of hydrazinopeptides using solid-phase N -electrophilic amination: extension to the Fmoc/tert -butyl strategy and chemistry of the N-N bond in strong acid media. Chemical Biology and Drug Design, 1999, 54, 270-278.	1.1	17
68	Reactivity of Lys(NH2)-containing peptides toward endopeptidases. , 1999, 5, 352-359.		5
69	Inhibition of farnesyl protein transferase by new farnesyl phosphonate derivatives of phenylalanine. Bioorganic and Medicinal Chemistry Letters, 1996, 6, 1291-1296.	2.2	11