Benoit P Deprez

List of Publications by Citations

120 papers	4,065 citations	34 h-index	59 g-index
145 ext. papers	4,677 ext. citations	7 avg, IF	4.89 L-index

#	Paper	IF	Citations
120	Inhibition of the glucose transporter SGLT2 with dapagliflozin in pancreatic alpha cells triggers glucagon secretion. *Nature Medicine*, **2015**, 21, 512-7	50.5	440
119	The Bile Acid Chenodeoxycholic Acid Increases Human Brown Adipose Tissue Activity. *Cell Metabolism*, **2015**, 22, 418-26	24.6	237
118	Daytime variation of perioperative myocardial injury in cardiac surgery and its prevention by Rev-Erb□antagonism: a single-centre propensity-matched cohort study and a randomised study. *Lancet, The*, **2018**, 391, 59-69	40	159
117	Tuberculosis: the drug development pipeline at a glance. *European Journal of Medicinal Chemistry*, **2012**, 51, 1-16	6.8	134
116	Synthetic EthR inhibitors boost antituberculous activity of ethionamide. *Nature Medicine*, **2009**, 15, 537-44	50.5	134
115	Rescue of nonsense mutations by amlexanox in human cells. *Orphanet Journal of Rare Diseases*, **2012**, 7, 58	4.2	103
114	Designing focused chemical libraries enriched in protein-protein interaction inhibitors using machine-learning methods. *PLoS Computational Biology*, **2010**, 6, e1000695	5	94
113	Efficient propylphosphonic anhydride (□ T3P) mediated synthesis of benzothiazoles, benzoxazoles and benzimidazoles. *Tetrahedron Letters*, **2012**, 53, 2440-2443	2	93
112	Hydroxamates: relationships between structure and plasma stability. *Journal of Medicinal Chemistry* , **2009**, 52, 6790-802	8.3	85
111	Reversion of antibiotic resistance in by spiroisoxazoline SMARt-420. *Science*, **2017**, 355, 1206-1211	33.3	80
110	Versatile Acylation of N-Nucleophiles Using a New Polymer-Supported 1-Hydroxybenzotriazole Derivative. *Journal of Organic Chemistry*, **1997**, 62, 2594-2603	4.2	79
109	Orthogonal Combinatorial Chemical Libraries. *Journal of the American Chemical Society*, **1995**, 117, 5405-5406	15.4	78
108	Parallel synthesis of 1,2,4-oxadiazoles from carboxylic acids using an improved, uronium-based, activation. *Tetrahedron Letters*, **2001**, 42, 1495-1498	2	74
107	Natural compounds: leads or ideas? Bioinspired molecules for drug discovery. *Chemical Biology and Drug Design*, **2008**, 72, 3-15	2.9	69
106	Ethionamide boosters: synthesis, biological activity, and structure-activity relationships of a series of 1,2,4-oxadiazole EthR inhibitors. *Journal of Medicinal Chemistry*, **2011**, 54, 2994-3010	8.3	63
105	Combination therapy for tuberculosis treatment: pulmonary administration of ethionamide and booster co-loaded nanoparticles. *Scientific Reports*, **2017**, 7, 5390	4.9	61
104	Ethionamide boosters. 2. Combining bioisosteric replacement and structure-based drug design to solve pharmacokinetic issues in a series of potent 1,2,4-oxadiazole EthR inhibitors. *Journal of Medicinal Chemistry*, **2012**, 55, 68-83	8.3	60

103	Parallel synthesis of polysubstituted tetrahydroquinolines. *Tetrahedron*, **1998**, 54, 4125-4140	2.4	60
102	Monitoring of a three-step solid phase synthesis involving a Heck reaction using magic angle spinning NMR spectroscopy. *Tetrahedron*, **1996**, 52, 12209-12222	2.4	57
101	Novel selective inhibitors of the zinc plasmodial aminopeptidase PfA-M1 as potential antimalarial agents. *Journal of Medicinal Chemistry*, **2007**, 50, 1322-34	8.3	55
100	Catalytic site inhibition of insulin-degrading enzyme by a small molecule induces glucose intolerance in mice. *Nature Communications*, **2015**, 6, 8250	17.4	52
99	Exploring drug target flexibility using in situ click chemistry: application to a mycobacterial transcriptional regulator. *ACS Chemical Biology*, **2010**, 5, 1007-13	4.9	51
98	Ligand efficiency driven design of new inhibitors of Mycobacterium tuberculosis transcriptional repressor EthR using fragment growing, merging, and linking approaches. *Journal of Medicinal Chemistry*, **2014**, 57, 4876-88	8.3	50
97	Drug to genome to drug: discovery of new antiplasmodial compounds. *Journal of Medicinal Chemistry*, **2011**, 54, 3222-40	8.3	49
96	In silico-in vitro screening of protein-protein interactions: towards the next generation of therapeutics. *Current Pharmaceutical Biotechnology*, **2008**, 9, 103-22	2.6	47
95	Comparative efficiency of simple lipopeptide constructs for in vivo induction of virus-specific CTL. *Vaccine*, **1996**, 14, 375-82	4.1	46
94	Long-lasting anti-viral cytotoxic T lymphocytes induced in vivo with chimeric-multirestricted lipopeptides. *Vaccine*, **1995**, 13, 1339-45	4.1	45
93	Parallel synthesis of a library of 1,4-naphthoquinones and automated screening of potential inhibitors of trypanothione reductase from Trypanosoma cruzi. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 631-5	2.9	41
92	Genome-wide, high-content siRNA screening identifies the Alzheimer's genetic risk factor FERMT2 as a major modulator of APP metabolism. *Acta Neuropathologica*, **2017**, 133, 955-966	14.3	40
91	Discovery of novel N-phenylphenoxyacetamide derivatives as EthR inhibitors and ethionamide boosters by combining high-throughput screening and synthesis. *Journal of Medicinal Chemistry*, **2012**, 55, 6391-402	8.3	36
90	Setting Up a Bioluminescence Resonance Energy Transfer High throughput Screening Assay to Search for Protein/Protein Interaction Inhibitors in Mammalian Cells. *Frontiers in Endocrinology*, **2012**, 3, 100	5.7	36
89	Topical Intestinal Aminoimidazole Agonists of G-Protein-Coupled Bile Acid Receptor 1 Promote Glucagon Like Peptide-1 Secretion and Improve Glucose Tolerance. *Journal of Medicinal Chemistry*, **2017**, 60, 4185-4211	8.3	35
88	A library of novel hydroxamic acids targeting the metallo-protease family: design, parallel synthesis and screening. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 63-76	3.4	35
87	Combinatorial chemistry: A rational approach to chemical diversity. *European Journal of Medicinal Chemistry*, **1996**, 31, 87-98	6.8	34
86	Structure-activity relationships and blood distribution of antiplasmodial aminopeptidase-1 inhibitors. *Journal of Medicinal Chemistry*, **2012**, 55, 10909-17	8.3	32

85	Ugi reaction for the synthesis of 4-aminopiperidine-4-carboxylic acid derivatives. Application to the synthesis of carfentanil and remifentanil. *Tetrahedron Letters*, **2010**, 51, 2983-2985	2	32
84	Synthesis of five- and six-membered lactams via solvent-free microwave Ugi reaction. *Tetrahedron Letters*, **2010**, 51, 5109-5111	2	32
83	From hit to lead. Combining two complementary methods for focused library design. Application to mu opiate ligands. *Journal of Medicinal Chemistry*, **2001**, 44, 3378-90	8.3	32
82	In vivo efficacy of microbiota-sensitive coatings for colon targeting: a promising tool for IBD therapy. *Journal of Controlled Release*, **2015**, 197, 121-30	11.7	31
81	Lewis acid-induced reaction of homophthalic anhydride with imines: a convenient synthesis of trans-isoquinolonic acids. *Tetrahedron Letters*, **1998**, 39, 829-832	2	31
80	PDE5 inhibitors: An original access to novel potent arylated analogues of tadalafil. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 789-92	2.9	31
79	Solvent-free microwave-assisted Meyers□lactamization. *Green Chemistry*, **2010**, 12, 961	10	29
78	Controlling Plasma Stability of Hydroxamic Acids: A MedChem Toolbox. *Journal of Medicinal Chemistry*, **2017**, 60, 9067-9089	8.3	28
77	ADAM30 Downregulates APP-Linked Defects Through Cathepsin D Activation in Alzheimer's Disease. *EBioMedicine*, **2016**, 9, 278-292	8.8	28
76	BIN1 recovers tauopathy-induced long-term memory deficits in mice and interacts with Tau through Thr phosphorylation. *Acta Neuropathologica*, **2019**, 138, 631-652	14.3	27
75	Ensemble cryoEM elucidates the mechanism of insulin capture and degradation by human insulin degrading enzyme. *ELife*, **2018**, 7,	8.9	27
74	From hit to lead. Analyzing structure-profile relationships. *Journal of Medicinal Chemistry*, **2001**, 44, 3391-3401	8.3	26
73	Intrinsic Antibacterial Activity of Nanoparticles Made of □Cyclodextrins Potentiates Their Effect as Drug Nanocarriers against Tuberculosis. *ACS Nano*, **2019**, 13, 3992-4007	16.7	25
72	Racemic and diastereoselective construction of indole alkaloids under solvent- and catalyst-free microwave-assisted Pictet□pengler condensation. *Green Chemistry*, **2012**, 14, 909	10	25
71	MALDI imaging techniques dedicated to drug-distribution studies. *Bioanalysis*, **2011**, 3, 1399-406	2.1	25
70	Synthesis and structural studies of a novel scaffold for drug discovery: a 4,5-dihydro-3H-spiro[1,5-benzoxazepine-2,4?-piperidine]. *Tetrahedron Letters*, **2004**, 45, 1051-1054	2	25
69	Friedl□der synthesis of polysubstituted quinolines and naphthyridines promoted by propylphosphonic anhydride (T3P□) under mild conditions. *New Journal of Chemistry*, **2012**, 36, 869	3.6	24
68	A facile and rapid synthesis of N-benzyl-2-substituted piperazines. *Tetrahedron Letters*, **2011**, 52, 1705-1708	2	24

67	Control of protein-protein interactions: structure-based discovery of low molecular weight inhibitors of the interactions between Pin1 WW domain and phosphopeptides. *Journal of Medicinal Chemistry*, **2005**, 48, 4815-23	8.3	24
66	UFU (Ullmann–Einkelstein–Ullmann): a new multicomponent reaction. *Tetrahedron Letters*, **2006**, 47, 4973-4978	2	24
65	Structure-activity relationships of imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, dual binders of human insulin-degrading enzyme. *European Journal of Medicinal Chemistry*, **2015**, 90, 547-67	6.8	23
64	Synthesis of a 200-member library of squaric acid N-hydroxylamide amides. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 4968-71	2.9	23
63	Kinetic target-guided synthesis in drug discovery and chemical biology: a comprehensive facts and figures survey. *Future Medicinal Chemistry*, **2016**, 8, 381-404	4.1	22
62	Imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, substrate-dependent modulators of insulin-degrading enzyme in amyloid-β hydrolysis. *European Journal of Medicinal Chemistry*, **2014**, 79, 184-93	6.8	22
61	Structural activation of the transcriptional repressor EthR from Mycobacterium tuberculosis by single amino acid change mimicking natural and synthetic ligands. *Nucleic Acids Research*, **2012**, 40, 3018-30	20.1	22
60	Hypothalamic bile acid-TGR5 signaling protects from obesity. *Cell Metabolism*, **2021**, 33, 1483-1492.e10	24.6	22
59	Facts, figures and trends in lead generation. *Current Topics in Medicinal Chemistry*, **2004**, 4, 569-80	3	21
58	Microwave-assisted synthesis of functionalized spirohydantoins as 3-D privileged fragments for scouting the chemical space. *Tetrahedron Letters*, **2016**, 57, 2888-2894	2	20
57	Squaric acid is a suitable building-block in 4C-Ugi reaction: access to original bivalent compounds. *Tetrahedron Letters*, **2012**, 53, 458-461	2	20
56	A simple reaction to produce small structurally complex and diverse molecules. *Tetrahedron Letters*, **2004**, 45, 5287-5290	2	20
55	Automated parallel synthesis of a tetrahydroisoquinolin-based library: potential prolyl endopeptidase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 437-42	2.9	20
54	New non-hydroxamic ADAMTS-5 inhibitors based on the 1,2,4-triazole-3-thiol scaffold. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6213-6	2.9	19
53	Unconventional surface plasmon resonance signals reveal quantitative inhibition of transcriptional repressor EthR by synthetic ligands. *Analytical Biochemistry*, **2014**, 452, 54-66	3.1	18
52	Convenient synthesis of 4H-1,2,4-triazole-3-thiols using di-2-pyridylthionocarbonate. *Tetrahedron Letters*, **2007**, 48, 8157-8162	2	18
51	Synthesis of functionalized 2-isoxazolines as three-dimensional fragments for fragment-based drug discovery. *Tetrahedron Letters*, **2015**, 56, 4119-4123	2	17
50	Pimelautide or trimexautide as built-in adjuvants associated with an HIV-1-derived peptide: synthesis and in vivo induction of antibody and virus-specific cytotoxic T-lymphocyte-mediated response. *Journal of Medicinal Chemistry*, **1995**, 38, 459-65	8.3	17

49	Drug-to-genome-to-drug, step 2: reversing selectivity in a series of antiplasmodial compounds. *Journal of Medicinal Chemistry*, **2012**, 55, 1274-86	8.3	16
48	Efficient, protection-free Suzuki–Miyaura synthesis of ortho-biphenyltetrazoles. *Tetrahedron Letters*, **2005**, 46, 6529-6532	2	15
47	Direct covalent attachment of small peptide antigens to enzyme-linked immunosorbent assay plates using radiation and carbodiimide activation. *Analytical Biochemistry*, **1994**, 222, 149-55	3.1	15
46	Inhibition of aggrecanases as a therapeutic strategy in osteoarthritis. *Future Medicinal Chemistry*, **2014**, 6, 1399-412	4.1	14
45	A versatile solid-phase synthesis of 3-aryl-1,2,4-oxadiazolones and analogues. *Tetrahedron Letters*, **2007**, 48, 1479-1483	2	14
44	Water-based conditions for the microscale parallel synthesis of bicyclic lactams. *Tetrahedron Letters* , **2013**, 54, 562-567	2	13
43	Fenofibrate-loaded PLGA microparticles: effects on ischemic stroke. *European Journal of Pharmaceutical Sciences*, **2009**, 37, 43-52	5.1	13
42	Novel non-carboxylic acid retinoids: 1,2,4-oxadiazol-5-one derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 489-92	2.9	13
41	Synthesis of N-(iodophenyl)-amides via an unprecedented Ullmann–Finkelstein tandem reaction. *Tetrahedron Letters*, **2006**, 47, 1181-1186	2	13
40	Characterization of monoclonal antibodies by a fast and easy liquid chromatography-mass spectrometry time-of-flight analysis on culture supernatant. *Analytical Biochemistry*, **2015**, 491, 52-4	3.1	12
39	Application of Ullmann and Ullmann-Finkelstein reactions for the synthesis of N-aryl-N-(1H-pyrazol-3-yl) acetamide or N-(1-aryl-1H-pyrazol-3-yl) acetamide derivatives and pharmacological evaluation. *European Journal of Medicinal Chemistry*, **2011**, 46, 3867-76	6.8	12
38	Original loading and Suzuki conditions for the solid-phase synthesis of biphenyltetrazoles. Application to the first solid-phase synthesis of irbesartan. *Tetrahedron Letters*, **2008**, 49, 2743-2747	2	12
37	Kinetic Target-Guided Synthesis: Reaching the Age of Maturity. *Journal of Medicinal Chemistry*, **2020** , 63, 3817-3833	8.3	11
36	Palladium-free Sonogashira-type cross-coupling reaction of bromoisoxazolines or N-alkoxyimidoyl bromides and alkynes. *Tetrahedron Letters*, **2016**, 57, 1066-1070	2	10
35	Identification of Small Inhibitory Molecules Targeting the Bfl-1 Anti-Apoptotic Protein That Alleviates Resistance to ABT-737. *Journal of Biomolecular Screening*, **2014**, 19, 1035-46		10
34	Aggrecanase-2 inhibitors based on the acylthiosemicarbazide zinc-binding group. *European Journal of Medicinal Chemistry*, **2013**, 69, 244-61	6.8	10
33	Mutations in residue 61 of H-Ras p21 protein influence MHC class II presentation. *International Immunology*, **1995**, 7, 269-75	4.9	10
32	Discovery and process development of a novel TACE inhibitor for the topical treatment of psoriasis. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 945-956	3.4	10

31	Identification of ebselen as a potent inhibitor of insulin degrading enzyme by a drug repurposing screening. *European Journal of Medicinal Chemistry*, **2019**, 179, 557-566	6.8	9
30	Structural and docking studies of potent ethionamide boosters. *Acta Crystallographica Section C: Crystal Structure Communications*, **2013**, 69, 1243-50		8
29	Efficient, two-step synthesis of N-substituted nortropinone derivatives. *Tetrahedron Letters*, **2007**, 48, 5007-5011	2	8
28	A fragment-based approach towards the discovery of N-substituted tropinones as inhibitors of Mycobacterium tuberculosis transcriptional regulator EthR2. *European Journal of Medicinal Chemistry*, **2019**, 167, 426-438	6.8	8
27	A comprehensive analysis of the protein-ligand interactions in crystal structures of Mycobacterium tuberculosis EthR. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2019**, 1867, 248-258	4	8
26	Discovery of the first Mycobacterium tuberculosis MabA (FabG1) inhibitors through a fragment-based screening. *European Journal of Medicinal Chemistry*, **2020**, 200, 112440	6.8	7
25	Fragment-Based Optimized EthR Inhibitors with Ethionamide Boosting Activity. *ACS Infectious Diseases*, **2020**, 6, 366-378	5.5	7
24	Access to newly functionalized imidazole derivatives: efficient synthesis of novel 5-amino-2-thioimidazoles using propylphosphonic anhydride (T3P). *Tetrahedron Letters*, **2015**, 56, 1011-1014	2	7
23	Confronting the degeneracy of convergent combinatorial immunogens, or 'mixotopes', with the specificity of recognition of the target sequences. *Vaccine*, **1997**, 15, 1568-78	4.1	7
22	Alkylsquarates as key intermediates for the rapid preparation of original drug-inspired compounds. *Combinatorial Chemistry and High Throughput Screening*, **2008**, 11, 294-303	1.3	7
21	Efficient analoging around ethionamide to explore thioamides bioactivation pathways triggered by boosters in Mycobacterium tuberculosis. *European Journal of Medicinal Chemistry*, **2018**, 159, 35-46	6.8	6
20	Identification of novel TACE inhibitors compatible with topical application. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 1848-1853	2.9	5
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18	Novel selective inhibitors of neutral endopeptidase: discovery by screening and hit-to-lead optimisation. *MedChemComm*, **2012**, 3, 469	5	4
17	High-Throughput DNA Plasmid Transfection Using Acoustic Droplet Ejection Technology. *SLAS Discovery*, **2019**, 24, 492-500	3.4	4
16	Microwave-Assisted Suzuki-Miyaura Cross Coupling using Nickel as Catalyst to Rapidly Access to 3-Arylazetidine. *ChemistrySelect*, **2017**, 2, 8841-8846	1.8	3
15	Drug Target Engagement Using Coupled Cellular Thermal Shift Assay-Acoustic Reverse-Phase Protein Array. *SLAS Discovery*, **2020**, 25, 207-214	3.4	3
14	Multi-component reaction for the preparation of 1,5-disubstituted 1,2,3-triazoles by in-situ generation of azides and nickel-catalyzed azide-alkyne cycloaddition. *Tetrahedron Letters*, **2021**, 73, 153131	2	3

13	NMR Spectroscopy of the Main Protease of SARS-CoV-2 and Fragment-Based Screening Identify Three Protein Hotspots and an Antiviral Fragment. *Angewandte Chemie - International Edition*, **2021**, 60, 25428-25435	16.4	3
12	Pyridylpiperazine-based allosteric inhibitors of RND-type multidrug efflux pumps.. *Nature Communications*, **2022**, 13, 115	17.4	2
11	Synthetic vaccines: The mixotope strategy **1992**, 842-844		2
10	BIN1 recovers tauopathy-induced long-term memory deficits in mice and interacts with Tau through Thr348 phosphorylation		2
9	Beyond the Rule of 5: Impact of PEGylation with Various Polymer Sizes on Pharmacokinetic Properties, Structure-Properties Relationships of mPEGylated Small Agonists of TGR5 Receptor. *Journal of Medicinal Chemistry*, **2021**, 64, 1593-1610	8.3	2
8	Identification of indole-based activators of insulin degrading enzyme. *European Journal of Medicinal Chemistry*, **2021**, 113982	6.8	1
7	Large scale screening discovers clofoctol as an inhibitor of SARS-CoV-2 replication that reduces COVID-19-like pathology		1
6	The small-molecule SMARt751 reverses resistance to ethionamide in acute and chronic mouse models of tuberculosis.. *Science Translational Medicine*, **2022**, 14, eaaz6280	17.5	1
5	Clofoctol inhibits SARS-CoV-2 replication and reduces lung pathology in mice.. *PLoS Pathogens*, **2022**, 18, e1010498	7.6	1
4	Recent advances in the design of inhibitors of mycobacterial transcriptional regulators to boost thioamides anti-tubercular activity and circumvent acquired-resistance. *Annual Reports in Medicinal Chemistry*, **2019**, 52, 131-152	1.6	0
3	High-Content Screening for Protein-Protein Interaction Modulators Using Proximity Ligation Assay in Primary Neurons. *Current Protocols in Cell Biology*, **2020**, 86, e100	2.3	0
2	NMR Spectroscopy of the Main Protease of SARS-CoV-2 and Fragment-Based Screening Identify Three Protein Hotspots and an Antiviral Fragment. *Angewandte Chemie*, **2021**, 133, 25632	3.6	0
1	High-Content Screening in Forward (Phenotypic Screening with Organisms) and Reverse (Structural Screening by NMR) Chemical Genetics **2011**, 103-112		