

Benoit P Deprez

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.

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	Pyridylpiperazine-based allosteric inhibitors of RND-type multidrug efflux pumps.. <i>Nature Communications</i> , 2022 , 13, 115	17.4	2
119	The small-molecule SMART751 reverses resistance to ethionamide in acute and chronic mouse models of tuberculosis.. <i>Science Translational Medicine</i> , 2022 , 14, eaaz6280	17.5	1
118	Clofoctol inhibits SARS-CoV-2 replication and reduces lung pathology in mice.. <i>PLoS Pathogens</i> , 2022 , 18, e1010498	7.6	1
117	Identification of indole-based activators of insulin degrading enzyme. <i>European Journal of Medicinal Chemistry</i> , 2021 , 113982	6.8	1
116	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. <i>Tetrahedron Letters</i> , 2021 , 73, 153131	24.6	3
115	Hypothalamic bile acid-TGR5 signaling protects from obesity. <i>Cell Metabolism</i> , 2021 , 33, 1483-1492.e10	24.6	22
114	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. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 1593-1610	8.3	2
113	NMR Spectroscopy of the Main Protease of SARS-CoV-2 and Fragment-Based Screening Identify Three Protein Hotspots and an Antiviral Fragment. <i>Angewandte Chemie</i> , 2021 , 133, 25632	3.6	0
112	NMR Spectroscopy of the Main Protease of SARS-CoV-2 and Fragment-Based Screening Identify Three Protein Hotspots and an Antiviral Fragment. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25428-25435	16.4	3
111	Discovery of the first Mycobacterium tuberculosis MabA (FabG1) inhibitors through a fragment-based screening. <i>European Journal of Medicinal Chemistry</i> , 2020 , 200, 112440	6.8	7
110	Fragment-Based Optimized EthR Inhibitors with Ethionamide Boosting Activity. <i>ACS Infectious Diseases</i> , 2020 , 6, 366-378	5.5	7
109	Drug Target Engagement Using Coupled Cellular Thermal Shift Assay-Acoustic Reverse-Phase Protein Array. <i>SLAS Discovery</i> , 2020 , 25, 207-214	3.4	3
108	High-Content Screening for Protein-Protein Interaction Modulators Using Proximity Ligation Assay in Primary Neurons. <i>Current Protocols in Cell Biology</i> , 2020 , 86, e100	2.3	0
107	Kinetic Target-Guided Synthesis: Reaching the Age of Maturity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 3817-3833	8.3	11
106	Recent advances in the design of inhibitors of mycobacterial transcriptional regulators to boost thioamides anti-tubercular activity and circumvent acquired-resistance. <i>Annual Reports in Medicinal Chemistry</i> , 2019 , 52, 131-152	1.6	0
105	Identification of ebselen as a potent inhibitor of insulin degrading enzyme by a drug repurposing screening. <i>European Journal of Medicinal Chemistry</i> , 2019 , 179, 557-566	6.8	9
104	BIN1 recovers tauopathy-induced long-term memory deficits in mice and interacts with Tau through Thr phosphorylation. <i>Acta Neuropathologica</i> , 2019 , 138, 631-652	14.3	27

103	Intrinsic Antibacterial Activity of Nanoparticles Made of β -Cyclodextrins Potentiates Their Effect as Drug Nanocarriers against Tuberculosis. <i>ACS Nano</i> , 2019 , 13, 3992-4007	16.7	25
102	A fragment-based approach towards the discovery of N-substituted tropinones as inhibitors of Mycobacterium tuberculosis transcriptional regulator EthR2. <i>European Journal of Medicinal Chemistry</i> , 2019 , 167, 426-438	6.8	8
101	A comprehensive analysis of the protein-ligand interactions in crystal structures of Mycobacterium tuberculosis EthR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 248-258	4	8
100	High-Throughput DNA Plasmid Transfection Using Acoustic Droplet Ejection Technology. <i>SLAS Discovery</i> , 2019 , 24, 492-500	3.4	4
99	Daytime variation of perioperative myocardial injury in cardiac surgery and its prevention by Rev-Erbs Antagonism: a single-centre propensity-matched cohort study and a randomised study. <i>Lancet, The</i> , 2018 , 391, 59-69	40	159
98	Discovery and process development of a novel TACE inhibitor for the topical treatment of psoriasis. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 945-956	3.4	10
97	Efficient analoging around ethionamide to explore thioamides bioactivation pathways triggered by boosters in Mycobacterium tuberculosis. <i>European Journal of Medicinal Chemistry</i> , 2018 , 159, 35-46	6.8	6
96	Ensemble cryoEM elucidates the mechanism of insulin capture and degradation by human insulin degrading enzyme. <i>ELife</i> , 2018 , 7,	8.9	27
95	Identification of novel TACE inhibitors compatible with topical application. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 1848-1853	2.9	5
94	Topical Intestinal Aminoimidazole Agonists of G-Protein-Coupled Bile Acid Receptor 1 Promote Glucagon Like Peptide-1 Secretion and Improve Glucose Tolerance. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4185-4211	8.3	35
93	Reversion of antibiotic resistance in by spiroisoxazoline SMART-420. <i>Science</i> , 2017 , 355, 1206-1211	33.3	80
92	Genome-wide, high-content siRNA screening identifies the Alzheimer's genetic risk factor FERMT2 as a major modulator of APP metabolism. <i>Acta Neuropathologica</i> , 2017 , 133, 955-966	14.3	40
91	Microwave-Assisted Suzuki-Miyaura Cross Coupling using Nickel as Catalyst to Rapidly Access to 3-Arylazetidines. <i>ChemistrySelect</i> , 2017 , 2, 8841-8846	1.8	3
90	Controlling Plasma Stability of Hydroxamic Acids: A MedChem Toolbox. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 9067-9089	8.3	28
89	Combination therapy for tuberculosis treatment: pulmonary administration of ethionamide and booster co-loaded nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 5390	4.9	61
88	Microwave-assisted synthesis of functionalized spirohydantoin as 3-D privileged fragments for scouting the chemical space. <i>Tetrahedron Letters</i> , 2016 , 57, 2888-2894	2	20
87	ADAM30 Downregulates APP-Linked Defects Through Cathepsin D Activation in Alzheimer's Disease. <i>EBioMedicine</i> , 2016 , 9, 278-292	8.8	28
86	Kinetic target-guided synthesis in drug discovery and chemical biology: a comprehensive facts and figures survey. <i>Future Medicinal Chemistry</i> , 2016 , 8, 381-404	4.1	22

85	Palladium-free Sonogashira-type cross-coupling reaction of bromoisoxazolines or N-alkoxyimidoyl bromides and alkynes. <i>Tetrahedron Letters</i> , 2016 , 57, 1066-1070	2	10
84	The Bile Acid Chenodeoxycholic Acid Increases Human Brown Adipose Tissue Activity. <i>Cell Metabolism</i> , 2015 , 22, 418-26	24.6	237
83	Inhibition of the glucose transporter SGLT2 with dapagliflozin in pancreatic alpha cells triggers glucagon secretion. <i>Nature Medicine</i> , 2015 , 21, 512-7	50.5	440
82	Synthesis of functionalized 2-isoxazolines as three-dimensional fragments for fragment-based drug discovery. <i>Tetrahedron Letters</i> , 2015 , 56, 4119-4123	2	17
81	Catalytic site inhibition of insulin-degrading enzyme by a small molecule induces glucose intolerance in mice. <i>Nature Communications</i> , 2015 , 6, 8250	17.4	52
80	Characterization of monoclonal antibodies by a fast and easy liquid chromatography-mass spectrometry time-of-flight analysis on culture supernatant. <i>Analytical Biochemistry</i> , 2015 , 491, 52-4	3.1	12
79	Structure-activity relationships of imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, dual binders of human insulin-degrading enzyme. <i>European Journal of Medicinal Chemistry</i> , 2015 , 90, 547-67	6.8	23
78	In vivo efficacy of microbiota-sensitive coatings for colon targeting: a promising tool for IBD therapy. <i>Journal of Controlled Release</i> , 2015 , 197, 121-30	11.7	31
77	Access to newly functionalized imidazole derivatives: efficient synthesis of novel 5-amino-2-thioimidazoles using propylphosphonic anhydride ($\text{P}(\text{O})\text{Cl}_2$). <i>Tetrahedron Letters</i> , 2015 , 56, 1011-1014	7	
76	Identification of Small Inhibitory Molecules Targeting the Bcl-1 Anti-Apoptotic Protein That Alleviates Resistance to ABT-737. <i>Journal of Biomolecular Screening</i> , 2014 , 19, 1035-46		10
75	Ligand efficiency driven design of new inhibitors of Mycobacterium tuberculosis transcriptional repressor EthR using fragment growing, merging, and linking approaches. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 4876-88	8.3	50
74	Inhibition of aggrecanases as a therapeutic strategy in osteoarthritis. <i>Future Medicinal Chemistry</i> , 2014 , 6, 1399-412	4.1	14
73	Unconventional surface plasmon resonance signals reveal quantitative inhibition of transcriptional repressor EthR by synthetic ligands. <i>Analytical Biochemistry</i> , 2014 , 452, 54-66	3.1	18
72	Imidazole-derived 2-[N-carbamoylmethyl-alkylamino]acetic acids, substrate-dependent modulators of insulin-degrading enzyme in amyloid- β hydrolysis. <i>European Journal of Medicinal Chemistry</i> , 2014 , 79, 184-93	6.8	22
71	Water-based conditions for the microscale parallel synthesis of bicyclic lactams. <i>Tetrahedron Letters</i> , 2013 , 54, 562-567	2	13
70	Aggrecanase-2 inhibitors based on the acylthiosemicarbazide zinc-binding group. <i>European Journal of Medicinal Chemistry</i> , 2013 , 69, 244-61	6.8	10
69	Structural and docking studies of potent ethionamide boosters. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1243-50		8
68	Tuberculosis: the drug development pipeline at a glance. <i>European Journal of Medicinal Chemistry</i> , 2012 , 51, 1-16	6.8	134

67	Squaric acid is a suitable building-block in 4C-Ugi reaction: access to original bivalent compounds. <i>Tetrahedron Letters</i> , 2012 , 53, 458-461	2	20
66	Efficient propylphosphonic anhydride (T3P) mediated synthesis of benzothiazoles, benzoxazoles and benzimidazoles. <i>Tetrahedron Letters</i> , 2012 , 53, 2440-2443	2	93
65	Structure-activity relationships and blood distribution of antiplasmodial aminopeptidase-1 inhibitors. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 10909-17	8.3	32
64	Stereoselective synthesis of enantiopure N-protected-3-arylpiperazines from keto-esters. <i>Tetrahedron Letters</i> , 2012 , 53, 5215-5218	2	5
63	Racemic and diastereoselective construction of indole alkaloids under solvent- and catalyst-free microwave-assisted Pictet-Spengler condensation. <i>Green Chemistry</i> , 2012 , 14, 909	10	25
62	Novel selective inhibitors of neutral endopeptidase: discovery by screening and hit-to-lead optimisation. <i>MedChemComm</i> , 2012 , 3, 469	5	4
61	Discovery of novel N-phenylphenoxyacetamide derivatives as EthR inhibitors and ethionamide boosters by combining high-throughput screening and synthesis. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6391-402	8.3	36
60	Setting Up a Bioluminescence Resonance Energy Transfer High throughput Screening Assay to Search for Protein/Protein Interaction Inhibitors in Mammalian Cells. <i>Frontiers in Endocrinology</i> , 2012 , 3, 100	5.7	36
59	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. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 68-83	8.3	60
58	Rescue of nonsense mutations by amlexanox in human cells. <i>Orphanet Journal of Rare Diseases</i> , 2012 , 7, 58	4.2	103
57	Friedländer synthesis of polysubstituted quinolines and naphthyridines promoted by propylphosphonic anhydride (T3P) under mild conditions. <i>New Journal of Chemistry</i> , 2012 , 36, 869	3.6	24
56	Drug-to-genome-to-drug, step 2: reversing selectivity in a series of antiplasmodial compounds. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 1274-86	8.3	16
55	Structural activation of the transcriptional repressor EthR from Mycobacterium tuberculosis by single amino acid change mimicking natural and synthetic ligands. <i>Nucleic Acids Research</i> , 2012 , 40, 3018-3020	20.1	22
54	Drug to genome to drug: discovery of new antiplasmodial compounds. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 3222-40	8.3	49
53	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. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 3867-76	6.8	12
52	Ethionamide boosters: synthesis, biological activity, and structure-activity relationships of a series of 1,2,4-oxadiazole EthR inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 2994-3010	8.3	63
51	A facile and rapid synthesis of N-benzyl-2-substituted piperazines. <i>Tetrahedron Letters</i> , 2011 , 52, 1705-1708	10	24
50	MALDI imaging techniques dedicated to drug-distribution studies. <i>Bioanalysis</i> , 2011 , 3, 1399-406	2.1	25

49	High-Content Screening in Forward (Phenotypic Screening with Organisms) and Reverse (Structural Screening by NMR) Chemical Genetics 2011 , 103-112		
48	Solvent-free microwave-assisted Meyers lactamization. <i>Green Chemistry</i> , 2010 , 12, 961	10	29
47	Exploring drug target flexibility using in situ click chemistry: application to a mycobacterial transcriptional regulator. <i>ACS Chemical Biology</i> , 2010 , 5, 1007-13	4.9	51
46	Designing focused chemical libraries enriched in protein-protein interaction inhibitors using machine-learning methods. <i>PLoS Computational Biology</i> , 2010 , 6, e1000695	5	94
45	Ugi reaction for the synthesis of 4-aminopiperidine-4-carboxylic acid derivatives. Application to the synthesis of carfentanil and remifentanil. <i>Tetrahedron Letters</i> , 2010 , 51, 2983-2985	2	32
44	Synthesis of five- and six-membered lactams via solvent-free microwave Ugi reaction. <i>Tetrahedron Letters</i> , 2010 , 51, 5109-5111	2	32
43	New non-hydroxamic ADAMTS-5 inhibitors based on the 1,2,4-triazole-3-thiol scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6213-6	2.9	19
42	Fenofibrate-loaded PLGA microparticles: effects on ischemic stroke. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 37, 43-52	5.1	13
41	Synthetic EthR inhibitors boost antituberculous activity of ethionamide. <i>Nature Medicine</i> , 2009 , 15, 537-540	4.5	134
40	Novel non-carboxylic acid retinoids: 1,2,4-oxadiazol-5-one derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 489-92	2.9	13
39	Hydroxamates: relationships between structure and plasma stability. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 6790-802	8.3	85
38	Alkylsquarates as key intermediates for the rapid preparation of original drug-inspired compounds. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 294-303	1.3	7
37	Synthesis of a 200-member library of squaric acid N-hydroxylamide amides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4968-71	2.9	23
36	Original loading and Suzuki conditions for the solid-phase synthesis of biphenyltetrazoles. Application to the first solid-phase synthesis of irbesartan. <i>Tetrahedron Letters</i> , 2008 , 49, 2743-2747	2	12
35	Natural compounds: leads or ideas? Bioinspired molecules for drug discovery. <i>Chemical Biology and Drug Design</i> , 2008 , 72, 3-15	2.9	69
34	In silico-in vitro screening of protein-protein interactions: towards the next generation of therapeutics. <i>Current Pharmaceutical Biotechnology</i> , 2008 , 9, 103-22	2.6	47
33	Novel selective inhibitors of the zinc plasmodial aminopeptidase PfA-M1 as potential antimalarial agents. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1322-34	8.3	55
32	A versatile solid-phase synthesis of 3-aryl-1,2,4-oxadiazolones and analogues. <i>Tetrahedron Letters</i> , 2007 , 48, 1479-1483	2	14

31	Efficient, two-step synthesis of N-substituted nortropinone derivatives. <i>Tetrahedron Letters</i> , 2007 , 48, 5007-5011	2	8
30	Convenient synthesis of 4H-1,2,4-triazole-3-thiols using di-2-pyridylthionocarbonate. <i>Tetrahedron Letters</i> , 2007 , 48, 8157-8162	2	18
29	A library of novel hydroxamic acids targeting the metallo-protease family: design, parallel synthesis and screening. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 63-76	3-4	35
28	PDE5 inhibitors: An original access to novel potent arylated analogues of tadalafil. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 789-92	2-9	31
27	Synthesis of N-(iodophenyl)-amides via an unprecedented Ullmann-Binkelstein tandem reaction. <i>Tetrahedron Letters</i> , 2006 , 47, 1181-1186	2	13
26	UFU (Ullmann-Binkelstein-Ullmann) a new multicomponent reaction. <i>Tetrahedron Letters</i> , 2006 , 47, 4973-4978	2	24
25	Control of protein-protein interactions: structure-based discovery of low molecular weight inhibitors of the interactions between Pin1 WW domain and phosphopeptides. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 4815-23	8-3	24
24	Efficient, protection-free Suzuki-Miyaura synthesis of ortho-biphenyltetrazoles. <i>Tetrahedron Letters</i> , 2005 , 46, 6529-6532	2	15
23	Facts, figures and trends in lead generation. <i>Current Topics in Medicinal Chemistry</i> , 2004 , 4, 569-80	3	21
22	Synthesis and structural studies of a novel scaffold for drug discovery: a 4,5-dihydro-3H-spiro[1,5-benzoxazepine-2,4?-piperidine]. <i>Tetrahedron Letters</i> , 2004 , 45, 1051-1054	2	25
21	A simple reaction to produce small structurally complex and diverse molecules. <i>Tetrahedron Letters</i> , 2004 , 45, 5287-5290	2	20
20	Parallel synthesis of 1,2,4-oxadiazoles from carboxylic acids using an improved, uronium-based, activation. <i>Tetrahedron Letters</i> , 2001 , 42, 1495-1498	2	74
19	From hit to lead. Analyzing structure-profile relationships. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 3391-3401	18-9	26
18	From hit to lead. Combining two complementary methods for focused library design. Application to mu opiate ligands. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 3378-90	8-3	32
17	Parallel synthesis of a library of 1,4-naphthoquinones and automated screening of potential inhibitors of trypanothione reductase from <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 631-5	2-9	41
16	Automated parallel synthesis of a tetrahydroisoquinolin-based library: potential prolyl endopeptidase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999 , 9, 437-42	2-9	20
15	Parallel synthesis of polysubstituted tetrahydroquinolines. <i>Tetrahedron</i> , 1998 , 54, 4125-4140	2-4	60
14	Lewis acid-induced reaction of homophthalic anhydride with imines: a convenient synthesis of trans-isoquinolonic acids. <i>Tetrahedron Letters</i> , 1998 , 39, 829-832	2	31

13	Confronting the degeneracy of convergent combinatorial immunogens, or 'mixotopes', with the specificity of recognition of the target sequences. <i>Vaccine</i> , 1997 , 15, 1568-78	4.1	7
12	Versatile Acylation of N-Nucleophiles Using a New Polymer-Supported 1-Hydroxybenzotriazole Derivative. <i>Journal of Organic Chemistry</i> , 1997 , 62, 2594-2603	4.2	79
11	Comparative efficiency of simple lipopeptide constructs for in vivo induction of virus-specific CTL. <i>Vaccine</i> , 1996 , 14, 375-82	4.1	46
10	Monitoring of a three-step solid phase synthesis involving a Heck reaction using magic angle spinning NMR spectroscopy. <i>Tetrahedron</i> , 1996 , 52, 12209-12222	2.4	57
9	Combinatorial chemistry: A rational approach to chemical diversity. <i>European Journal of Medicinal Chemistry</i> , 1996 , 31, 87-98	6.8	34
8	Mutations in residue 61 of H-Ras p21 protein influence MHC class II presentation. <i>International Immunology</i> , 1995 , 7, 269-75	4.9	10
7	Orthogonal Combinatorial Chemical Libraries. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5405-5406	6.4	78
6	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. <i>Journal of Medicinal Chemistry</i> , 1995 , 38, 459-65	8.3	17
5	Long-lasting anti-viral cytotoxic T lymphocytes induced in vivo with chimeric-multirestricted lipopeptides. <i>Vaccine</i> , 1995 , 13, 1339-45	4.1	45
4	Direct covalent attachment of small peptide antigens to enzyme-linked immunosorbent assay plates using radiation and carbodiimide activation. <i>Analytical Biochemistry</i> , 1994 , 222, 149-55	3.1	15
3	Synthetic vaccines: The mixotope strategy 1992 , 842-844		2
2	BIN1 recovers tauopathy-induced long-term memory deficits in mice and interacts with Tau through Thr348 phosphorylation		2
1	Large scale screening discovers clofoctol as an inhibitor of SARS-CoV-2 replication that reduces COVID-19-like pathology		1