

# Federico Berti

## List of Publications by Year in descending order

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86  
papers

1,638  
citations

331670  
21  
h-index

377865  
34  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short peptides as biosensor transducers. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3055-3070.	3.7	149
2	Highly Sensitive Electrochemiluminescent Nanobiosensor for the Detection of Palytoxin. <i>ACS Nano</i> , 2012, 6, 7989-7997.	14.6	96
3	Interaction of chlorogenic acids and quinides from coffee with human serum albumin. <i>Food Chemistry</i> , 2015, 168, 332-340.	8.2	72
4	Synthesis, biological activity and modelling studies of two novel anti HIV PR inhibitors with a thiophene containing hydroxyethylamino core. <i>Tetrahedron</i> , 2005, 61, 6580-6589.	1.9	68
5	Regio- and stereoselective ring opening of 2,3-epoxyalcohols with diethylaluminium azide. <i>Tetrahedron Letters</i> , 1998, 39, 7971-7974.	1.4	54
6	Effect of Size and N-Terminal Residue Characteristics on Bacterial Cell Penetration and Antibacterial Activity of the Proline-Rich Peptide Bac7. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1195-1204.	6.4	40
7	Structuring and interactions of human $\delta$ -defensins 2 and 3 with model membranes. <i>Journal of Peptide Science</i> , 2008, 14, 518-523.	1.4	39
8	Harmful Dinoflagellate <i>Ostreopsis</i> cf. <i>ovata</i> Fukuyo: Detection of Ovatoxins in Field Samples and Cell Immunolocalization Using Antipalytoxin Antibodies. <i>Environmental Science &amp; Technology</i> , 2011, 45, 7051-7059.	10.0	35
9	Rational design of allosteric modulators of the aromatase enzyme: An unprecedented therapeutic strategy to fight breast cancer. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 253-262.	5.5	33
10	Design of peptidomimetic inhibitors of aspartic protease of HIV-1 containing "Phe-Pro" core and displaying favourable ADME-related properties. <i>Journal of Molecular Graphics and Modelling</i> , 2008, 27, 376-387.	2.4	32
11	Synthesis, Characterization, and Optimization for in Vivo Delivery of a Nonselective Isopeptidase Inhibitor as New Antineoplastic Agent. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1691-1704.	6.4	29
12	Interaction of coffee compounds with serum albumins. Part II: Diterpenes. <i>Food Chemistry</i> , 2016, 199, 502-508.	8.2	29
13	Epoxyalcohol Route to Hydroxyethylene Dipeptide Isosteres. Stereodivergent Synthesis of the Diamino Alcohol Core of Ritonavir and Its C-2 Epimer. <i>Journal of Organic Chemistry</i> , 2002, 67, 8635-8643.	3.2	28
14	Cyclization of $\beta$ , $\beta'$ -epoxy- $\beta$ -cyanosulphones. A simple, diastereoselective route to cyclopropane carboxylic acids.. <i>Tetrahedron Letters</i> , 1993, 34, 6443-6446.	1.4	26
15	Ring-opening of epoxyalcohols by diethylaluminium cyanide. Regio- and stereoselective synthesis of 1-cyano-2,3-diols. <i>Tetrahedron Letters</i> , 1999, 40, 1041-1044.	1.4	25
16	Unexpected 1,2,3-triazole formation in the reaction of diethylaluminum azide with $\alpha^2$ -amino- $\beta$ , $\beta'$ -unsaturated ketones. <i>Tetrahedron Letters</i> , 2003, 44, 9095-9097.	1.4	25
17	Aldolase activity of serum albumins. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4417.	2.8	24
18	Albumin-directed stereoselective reduction of 1,3-diketones and $\beta$ -hydroxyketones to anti diols. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1987.	2.8	24

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19	Designing Short Peptides with High Affinity for Organic Molecules: A Combined Docking, Molecular Dynamics, And Monte Carlo Approach. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1121-1128.	5.3	24
20	Biosensors and Sensing Systems for Rapid Analysis of Phenolic Compounds from Plants: A Comprehensive Review. <i>Biosensors</i> , 2020, 10, 105.	4.7	24
21	Intramolecular Ring Opening of Epoxides by Bis-Activated Carbanions. The Influence of Ring Size on Reactivity and Selectivity. <i>Journal of Organic Chemistry</i> , 1994, 59, 1518-1524.	3.2	23
22	Fluorescent molecularly imprinted nanogels for the detection of anticancer drugs in human plasma. <i>Biosensors and Bioelectronics</i> , 2016, 86, 913-919.	10.1	23
23	Stereoselective Hydroazidation of Amino Enones: Synthesis of the Ritonavir/Lopinavir Core. <i>Organic Letters</i> , 2006, 8, 51-54.	4.6	22
24	Determination of zeranol and $\beta$ -zeaxanthinol in calf urine by immunoaffinity extraction and gas chromatography-mass spectrometry after repeated administration of zeranol. <i>Biomedical Applications</i> , 1991, 564, 493-502.	1.7	21
25	Small hydroxyethylene-based peptidomimetics inhibiting both HIV-1 and <i>C. albicans</i> aspartic proteases. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4719-4727.	3.0	21
26	Synthesis and biological evaluation of novel small non-peptidic HIV-1 PIs: The benzothiophene ring as an effective moiety. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2948-2950.	2.2	21
27	Methyl effects in the cyclization of $\gamma$ -epoxy bis-sulfones. <i>Journal of Organic Chemistry</i> , 1991, 56, 3530-3537.	3.2	20
28	Chemoenzymatic synthesis of diastereomeric ethyl $\beta$ -benzyl paraconates and determination of the absolute configurations of their acids. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2344-2353.	1.8	20
29	Efficient Biginelli Synthesis of 2-Aminodihydropyrimidines under Microwave Irradiation. <i>Synlett</i> , 2018, 29, 1047-1054.	1.8	20
30	Peptide biosensors for anticancer drugs: Design in silico to work in denaturizing environment. <i>Biosensors and Bioelectronics</i> , 2018, 100, 298-303.	10.1	20
31	Characterization of Thermoresponsive Poly-N-Vinylcaprolactam Polymers for Biological Applications. <i>Polymers</i> , 2021, 13, 2639.	4.5	20
32	One-step stereospecific synthesis of $\alpha,\beta$ -dehydroamino acids and dehydropeptides. <i>Tetrahedron Letters</i> , 1992, 33, 8145-8148.	1.4	19
33	Anthranilic acid derivatives: a new class of non-peptide CCK1 receptor antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 741-751.	3.0	19
34	Chlorogenic Compounds from Coffee Beans Exert Activity against Respiratory Viruses. <i>Planta Medica</i> , 2017, 83, 615-623.	1.3	19
35	Albumin-controlled stereoselective reduction of 1,3-diketones to anti-diols Electronic supplementary information (ESI) available: Scatchard and Lineweaver-Burk plots. See <a href="http://www.rsc.org/suppdata/cc/b2/b200474g/">http://www.rsc.org/suppdata/cc/b2/b200474g/</a> . <i>Chemical Communications</i> , 2002, , 828-829.	4.1	18
36	Anthranilic acid based CCK1 antagonists: the 2-indole moiety may represent a "needle" according to the recent homonymous concept. <i>European Journal of Medicinal Chemistry</i> , 2004, 39, 85-97.	5.5	17

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37	Synthesis of New Thienyl Ring Containing HIV-1 Protease Inhibitors: Promising Preliminary Pharmacological Evaluation against Recombinant HIV-1 Proteases. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1451-1457.	6.4	17
38	Designing High-Affinity Peptides for Organic Molecules by Explicit Solvent Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12963-12969.	2.6	17
39	Distribution of p-coumaroylquinic acids in commercial <i>Coffea</i> spp. of different geographical origin and in other wild coffee species. <i>Food Chemistry</i> , 2019, 286, 459-466.	8.2	17
40	anti-Sulfonamide antibodies catalyse the hydrolysis of a heterocyclic amide. <i>Chemical Communications</i> , 1996, , 1417.	4.1	15
41	A Competitive Immunoassay for the Detection of Esterolytic Activity of Antibodies and Enzymes. <i>Analytical Biochemistry</i> , 1998, 256, 67-73.	2.4	14
42	A Catalytic Antibody Programmed for Torsional Activation of Amide Bond Hydrolysis. <i>Chemistry - A European Journal</i> , 2003, 9, 3132-3142.	3.3	14
43	Isolation and characterization of major diterpenes from <i>C. canephora</i> roasted coffee oil. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 649-656.	1.8	14
44	In Silico Design of Short Peptides as Sensing Elements for Phenolic Compounds. <i>ACS Sensors</i> , 2016, 1, 279-286.	7.8	14
45	Aqueous extracts of walnut ( <i>Juglans regia</i> L.) leaves: quantitative analyses of hydroxycinnamic and chlorogenic acids. <i>Journal of Chromatographic Science</i> , 2018, 56, 753-760.	1.4	14
46	One Pot Synthesis of Micromolar BACE-1 Inhibitors Based on the Dihydropyrimidinone Scaffold and Their Thia and Imino Analogues. <i>Molecules</i> , 2020, 25, 4152.	3.8	14
47	The binding landscape of a partially-selective isopeptidase inhibitor with potent pro-death activity, based on the bis(arylidene)cyclohexanone scaffold. <i>Cell Death and Disease</i> , 2018, 9, 184.	6.3	13
48	Hydroxycinnamoyl Amino Acids Conjugates: A Chiral Pool to Distinguish Commercially Exploited <i>Coffea</i> spp.. <i>Molecules</i> , 2020, 25, 1704.	3.8	13
49	Synthesis of optically active $\pm$ -benzyl paraconic acids and their esters and assignment of their absolute configuration. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 313-321.	1.8	12
50	Anthranilic acid based CCK1 receptor antagonists: Blocking the receptor with the same $\alpha$ -words <sup>TM</sup> of the endogenous ligand. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 2336-2350.	3.0	12
51	Evaluation of the Efficiency of Synthesized Efflux Pump Inhibitors on <i>Salmonella enterica</i> ser. Typhimurium Cells. <i>Chemical Biology and Drug Design</i> , 2013, 82, 438-445.	3.2	12
52	Synthesis of p-coumaroylquinic acids and analysis of their interconversion. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 419-427.	1.8	12
53	Oleocanthal Quantification Using <sup>1</sup> H NMR Spectroscopy and Polyphenols HPLC Analysis of Olive Oil from the Bianchera/Belica Cultivar. <i>Molecules</i> , 2021, 26, 242.	3.8	12
54	Synthesis of a Val-Pro Diaminodiol Dipeptide Isostere by Epoxyamine Cyclization. <i>Organic Letters</i> , 2004, 6, 1017-1019.	4.6	10

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55	A study of the enantiopreference of lipase PS ( <i>Pseudomonas cepacia</i> ) towards diastereomeric dihydro-5-alkyl-4-hydroxymethyl-2(3H)-furanones. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 1091-1102.	1.8	10
56	Synthesis and Biological Activity of Potent HIV-1 Protease Inhibitors Based on Phe-Pro Dihydroxyethylene Isosteres. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 3900-3910.	6.4	10
57	An Albumin-Derived Peptide Scaffold Capable of Binding and Catalysis. <i>PLoS ONE</i> , 2013, 8, e56469.	2.5	10
58	Synthesis of Mono-, Di-, and Tri-4-(dimethoxycinnamoyl)-5-quinolines. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1321-1326.	2.4	10
59	Chitosan-Based Biocompatible Copolymers for Thermoresponsive Drug Delivery Systems: On the Development of a Standardization System. <i>Pharmaceutics</i> , 2021, 13, 1876.	4.5	10
60	Modeling of solvent effects in the activation of the lipase from <i>Rhizomucor miehei</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 839-844.	2.2	9
61	Val-Ala Dipeptide Isosteres by Hydrocyanation of $\alpha$ -Amino $\beta$ -Unsaturated Ketones: Control of Stereoselectivity by the N-Protecting Group. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1973-1982.	2.4	9
62	Stereoselective synthesis of a novel pseudopeptide hapten for the generation of hydrolytic catalytic antibodies. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1847-1855.	1.8	9
63	Development and evaluation of an immunoassay for the monitoring of the anti-HIV drug amprenavir. <i>Journal of Immunological Methods</i> , 2007, 325, 35-41.	1.4	9
64	Prediction of self-assembly of adenosine analogues in solution: a computational approach validated by isothermal titration calorimetry. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4258-4267.	2.8	9
65	Inhibitors of HIV-Protease from Computational Design. A History of Theory and Synthesis Still to be Fully Appreciated. <i>Current Pharmaceutical Design</i> , 2014, 20, 3398-3411.	1.9	9
66	Thermoresponsive Chitosan-Grafted-Poly(N-vinylcaprolactam) Microgels via Ionotropic Gelation for Oncological Applications. <i>Pharmaceutics</i> , 2021, 13, 1654.	4.5	9
67	New heteroaryl carbamates: Synthesis and biological screening in vitro and in mammalian cells of wild-type and mutant HIV-protease inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1863-1870.	3.0	8
68	A Potent HIV Protease Inhibitor Identified in an Epimeric Mixture by High-Resolution Protein Crystallography. <i>ChemMedChem</i> , 2006, 1, 186-188.	3.2	7
69	On the Absolute Configuration of Chiral 1,4-Dihydropyridazines Synthesized by Organocatalysed Reactions. <i>Journal of Organic Chemistry</i> , 2013, 78, 11670-11679.	3.2	7
70	Biginelli Reaction and $\beta$ -Secretase Inhibition: A Multicomponent Reaction as a Friendly Educational Approach to Bioactive Compounds. <i>Journal of Chemical Education</i> , 2021, 98, 1756-1761.	2.3	7
71	Simultaneous Quantification of Antioxidants Paraxanthine and Caffeine in Human Saliva by Electrochemical Sensing for CYP1A2 Phenotyping. <i>Antioxidants</i> , 2021, 10, 10.	5.1	7
72	Synthesis of N-terminal substituted anthranilic acid dimer derivatives for evaluation on CCK receptors. <i>Il Farmaco</i> , 2001, 56, 555-564.	0.9	6

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73	Interaction of the Coffee Diterpenes Cafestol and 16-O-Methyl-Cafestol Palmitates with Serum Albumins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1823.	4.1	5
74	An Unprecedented Catalytic Motif Revealed in the Model Structure of Amide Hydrolyzing Antibody 312d6. <i>ChemBioChem</i> , 2004, 5, 129-131.	2.6	4
75	New Anthranilic Acid Based Antagonists with High Affinity and Selectivity for the Human Cholecystokinin Receptor 1 (hCCK <sub>1</sub> -R). <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5769-5785.	6.4	4
76	Bifunctional Behavior of a Porphyrin in Hydrogen-Bonded Donor–Acceptor Molecular Chains on a Gold Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7088-7096.	3.1	4
77	Signal-On Fluorescent Imprinted Nanoparticles for Sensing of Phenols in Aqueous Olive Leaves Extracts. <i>Nanomaterials</i> , 2020, 10, 1011.	4.1	4
78	Antibody catalyzed modification of amino acids. Efficient hydrolysis of tyrosine benzoate. <i>Chemical Communications</i> , 2001, , 715-716.	4.1	3
79	Synthesis of Chiral, Enantiopure Allylic Amines by the Julia Olefination of $\alpha$ -Amino Esters. <i>Molecules</i> , 2016, 21, 805.	3.8	3
80	Fluorescent Imprinted Nanoparticles for the Effective Monitoring of Irinotecan in Human Plasma. <i>Nanomaterials</i> , 2020, 10, 1707.	4.1	3
81	Design, synthesis and preliminary evaluation of peptidomimetic inhibitors of HIV aspartic protease with an epoxyalcohol core. <i>Arkivoc</i> , 2004, 2003, 140-154.	0.5	3
82	Impact of Stereochemistry on Ligand Binding: X-ray Crystallographic Analysis of an Epoxide-Based HIV Protease Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 968-972.	2.8	2
83	Synthesis and Biological Activity of New Mixed HIV-PR Inhibitors Conjugated to Bifunctional High-Molecular Weight Poly(Ethylene Glycol). <i>Letters in Organic Chemistry</i> , 2011, 8, 380-384.	0.5	1
84	The Pseudo-Symmetric N-benzyl Hydroxyethylamine Core in a New Series of Heteroarylcarboxamide HIV-1 Pr Inhibitors: Synthesis, Molecular Modeling and Biological Evaluation. <i>Biomolecules</i> , 2021, 11, 1584.	4.0	1
85	Unexpected 1,2,3-Triazole Formation in the Reaction of Diethylaluminum Azide with $\alpha$ -Amino- $\beta$ -Unsaturated Ketones. <i>ChemInform</i> , 2004, 35, no.	0.0	0
86	An albumin-derived peptide scaffold capable of binding and catalysis. <i>Nature Precedings</i> , 2012, , .	0.1	0