

Federico Berti

List of Publications by Citations

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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.

81
papers

1,325
citations

19
h-index

31
g-index

93
ext. papers

1,495
ext. citations

4.9
avg, IF

4.37
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 81 | Short peptides as biosensor transducers. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3055-70 | 4.4 | 130 |
| 80 | Highly sensitive electrochemiluminescent nanobiosensor for the detection of palytoxin. <i>ACS Nano</i> , 2012 , 6, 7989-97 | 16.7 | 83 |
| 79 | Interaction of chlorogenic acids and quinides from coffee with human serum albumin. <i>Food Chemistry</i> , 2015 , 168, 332-40 | 8.5 | 66 |
| 78 | 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 | 2.4 | 62 |
| 77 | Regio- and stereoselective ring opening of 2,3-epoxyalcohols with diethylaluminium azide. <i>Tetrahedron Letters</i> , 1998 , 39, 7971-7974 | 2 | 47 |
| 76 | 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, 1195-204 | 8.3 | 36 |
| 75 | Harmful dinoflagellate <i>Ostreopsis cf. ovata</i> Fukuyo: detection of ovatoxins in field samples and cell immunolocalization using antipalytoxin antibodies. <i>Environmental Science & Technology</i> , 2011 , 45, 7051-9 | 10.3 | 32 |
| 74 | Structuring and interactions of human beta-defensins 2 and 3 with model membranes. <i>Journal of Peptide Science</i> , 2008 , 14, 518-23 | 2.1 | 32 |
| 73 | Design of peptidomimetic inhibitors of aspartic protease of HIV-1 containing -Phe Psi Pro- core and displaying favourable ADME-related properties. <i>Journal of Molecular Graphics and Modelling</i> , 2008 , 27, 376-87 | 2.8 | 29 |
| 72 | Interaction of coffee compounds with serum albumins. Part II: Diterpenes. <i>Food Chemistry</i> , 2016 , 199, 502-8 | 8.5 | 27 |
| 71 | 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, 8635-43 | 4.2 | 26 |
| 70 | 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 | 6.8 | 24 |
| 69 | Unexpected 1,2,3-triazole formation in the reaction of diethylaluminum azide with β -amino- α -unsaturated ketones. <i>Tetrahedron Letters</i> , 2003 , 44, 9095-9097 | 2 | 23 |
| 68 | 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, 1691-704 | 8.3 | 22 |
| 67 | Albumin-directed stereoselective reduction of 1,3-diketones and β -hydroxyketones to anti diols. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1987-99 | 3.9 | 22 |
| 66 | Stereoselective hydroazidation of amino enones: synthesis of the ritonavir/lopinavir core. <i>Organic Letters</i> , 2006 , 8, 51-4 | 6.2 | 22 |
| 65 | 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 | 2 | 22 |

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| 64 | 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, 1121-8 | 6.4 | 21 |
| 63 | Cyclization of β -epoxy- β -cyanosulphones. A simple, diastereoselective route to cyclopropane carboxylic acids.. <i>Tetrahedron Letters</i> , 1993 , 34, 6443-6446 | 2 | 20 |
| 62 | Aldolase activity of serum albumins. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 4417-20 | 3.9 | 19 |
| 61 | Small hydroxyethylene-based peptidomimetics inhibiting both HIV-1 and <i>C. albicans</i> aspartic proteases. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 4719-27 | 3.4 | 19 |
| 60 | Chemoenzymatic synthesis of diastereomeric ethyl β -benzyl paraconates and determination of the absolute configurations of their acids. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 2344-2353 | | 18 |
| 59 | Anthranilic acid derivatives: a new class of non-peptide CCK1 receptor antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 741-51 | 3.4 | 18 |
| 58 | One-step stereospecific synthesis of β -dehydroamino acids and dehydropeptides.. <i>Tetrahedron Letters</i> , 1992 , 33, 8145-8148 | 2 | 18 |
| 57 | 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, 2948-50 | 2.9 | 17 |
| 56 | 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 | 4.2 | 17 |
| 55 | Determination of zeranol and beta-zearalanol in calf urine by immunoaffinity extraction and gas chromatography-mass spectrometry after repeated administration of zeranol. <i>Biomedical Applications</i> , 1991 , 564, 493-502 | | 17 |
| 54 | Fluorescent molecularly imprinted nanogels for the detection of anticancer drugs in human plasma. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 913-919 | 11.8 | 17 |
| 53 | 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, 1451-7 | 8.3 | 16 |
| 52 | 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 | 6.8 | 16 |
| 51 | Efficient Biginelli Synthesis of 2-Aminodihydropyrimidines under Microwave Irradiation. <i>Synlett</i> , 2018 , 29, 1047-1054 | 2.2 | 15 |
| 50 | Peptide biosensors for anticancer drugs: Design in silico to work in denaturizing environment. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 298-303 | 11.8 | 15 |
| 49 | Albumin-controlled stereoselective reduction of 1,3-diketones to anti-diols. <i>Chemical Communications</i> , 2002 , 828-9 | 5.8 | 15 |
| 48 | Designing High-Affinity Peptides for Organic Molecules by Explicit Solvent Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12963-9 | 3.4 | 14 |
| 47 | Chlorogenic Compounds from Coffee Beans Exert Activity against Respiratory Viruses. <i>Planta Medica</i> , 2017 , 83, 615-623 | 3.1 | 14 |

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| 46 | Biosensors and Sensing Systems for Rapid Analysis of Phenolic Compounds from Plants: A Comprehensive Review. <i>Biosensors</i> , 2020 , 10, | 5.9 | 14 |
| 45 | A catalytic antibody programmed for torsional activation of amide bond hydrolysis. <i>Chemistry - A European Journal</i> , 2003 , 9, 3132-42 | 4.8 | 13 |
| 44 | anti-Sulfonamide antibodies catalyse the hydrolysis of a heterocyclic amide. <i>Chemical Communications</i> , 1996 , 1417 | 5.8 | 13 |
| 43 | Methyl effects in the cyclization of γ -epoxy bis-sulfones. <i>Journal of Organic Chemistry</i> , 1991 , 56, 3530-3537 | 4.2 | 13 |
| 42 | Synthesis of p-coumaroylquinic acids and analysis of their interconversion. <i>Tetrahedron: Asymmetry</i> , 2017 , 28, 419-427 | | 11 |
| 41 | In Silico Design of Short Peptides as Sensing Elements for Phenolic Compounds. <i>ACS Sensors</i> , 2016 , 1, 279-286 | 9.2 | 11 |
| 40 | Synthesis of optically active β -benzyl paraconic acids and their esters and assignment of their absolute configuration. <i>Tetrahedron: Asymmetry</i> , 2009 , 20, 313-321 | | 11 |
| 39 | Anthranilic acid based CCK1 receptor antagonists: blocking the receptor with the same R -words of the endogenous ligand. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 2336-50 | 3.4 | 11 |
| 38 | A competitive immunoassay for the detection of esterolytic activity of antibodies and enzymes. <i>Analytical Biochemistry</i> , 1998 , 256, 67-73 | 3.1 | 11 |
| 37 | 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 | 9.8 | 10 |
| 36 | Isolation and characterization of major diterpenes from C. canephora roasted coffee oil. <i>Tetrahedron: Asymmetry</i> , 2016 , 27, 649-656 | | 10 |
| 35 | An albumin-derived peptide scaffold capable of binding and catalysis. <i>PLoS ONE</i> , 2013 , 8, e56469 | 3.7 | 10 |
| 34 | Distribution of p-coumaroylquinic acids in commercial Coffea spp. of different geographical origin and in other wild coffee species. <i>Food Chemistry</i> , 2019 , 286, 459-466 | 8.5 | 10 |
| 33 | Synthesis of Mono-, Di-, and Tri-3,4-dimethoxycinnamoyl-1,5-quinides. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 1321-1326 | 3.2 | 9 |
| 32 | Synthesis and biological activity of potent HIV-1 protease inhibitors based on Phe-Pro dihydroxyethylene isosteres. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 3900-10 | 8.3 | 9 |
| 31 | Stereoselective synthesis of a novel pseudopeptide hapten for the generation of hydrolytic catalytic antibodies. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 1847-1855 | | 9 |
| 30 | Synthesis of a Val-Pro diaminodiol dipeptide isostere by epoxyamine cyclization. <i>Organic Letters</i> , 2004 , 6, 1017-9 | 6.2 | 9 |
| 29 | Val-Ala Dipeptide Isosteres by Hydrocyanation of β -Amino α -Unsaturated Ketones [Control of Stereoselectivity by the N-Protecting Group. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 1973-1982 | 3.2 | 9 |

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| 28 | A study of the enantioselectivity 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 | | 9 |
| 27 | 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 | 3.6 | 8 |
| 26 | 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, 3398-411 | 3.3 | 8 |
| 25 | 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 | 2.5 | 7 |
| 24 | 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 | 2.9 | 7 |
| 23 | One Pot Synthesis of Micromolar BACE-1 Inhibitors Based on the Dihydropyrimidinone Scaffold and Their Thia and Imino Analogues. <i>Molecules</i> , 2020 , 25, | 4.8 | 7 |
| 22 | On the absolute configuration of chiral 1,4-dihydropyridazines synthesized by organocatalysed reactions. <i>Journal of Organic Chemistry</i> , 2013 , 78, 11670-9 | 4.2 | 6 |
| 21 | 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 | 6 |
| 20 | A potent HIV protease inhibitor identified in an epimeric mixture by high-resolution protein crystallography. <i>ChemMedChem</i> , 2006 , 1, 186-8 | 3.7 | 5 |
| 19 | Synthesis of N-terminal substituted anthranilic acid dimer derivatives for evaluation on CCK receptors. <i>Il Farmaco</i> , 2001 , 56, 555-64 | | 5 |
| 18 | Oleocanthal Quantification Using H NMR Spectroscopy and Polyphenols HPLC Analysis of Olive Oil from the Bianchera/Belica Cultivar. <i>Molecules</i> , 2021 , 26, | 4.8 | 5 |
| 17 | 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 | 3.8 | 4 |
| 16 | Hydroxycinnamoyl Amino Acids Conjugates: A Chiral Pool to Distinguish Commercially Exploited spp. <i>Molecules</i> , 2020 , 25, | 4.8 | 4 |
| 15 | An unprecedented catalytic motif revealed in the model structure of amide hydrolyzing antibody 312d6. <i>ChemBioChem</i> , 2004 , 5, 129-31 | 3.8 | 4 |
| 14 | Characterization of Thermo-responsive Poly-N-Vinylcaprolactam Polymers for Biological Applications. <i>Polymers</i> , 2021 , 13, | 4.5 | 4 |
| 13 | 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 | 3.4 | 3 |
| 12 | Interaction of the Coffee Diterpenes Cafestol and 16-Methyl-Cafestol Palmitates with Serum Albumins. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 3 |
| 11 | Signal-On Fluorescent Imprinted Nanoparticles for Sensing of Phenols in Aqueous Olive Leaves Extracts. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 3 |

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| 10 | Evaluation of the efficiency of synthesized efflux pump inhibitors on Salmonella enterica ser. typhimurium cells. <i>Chemical Biology and Drug Design</i> , 2013 , 82, 438-45 | 2.9 | 3 |
| 9 | New anthranilic acid based antagonists with high affinity and selectivity for the human cholecystokinin receptor 1 (hCCK1-R). <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5769-85 | 8.3 | 3 |
| 8 | Design, synthesis and preliminary evaluation of peptidomimetic inhibitors of HIV aspartic protease with an epoxyalcohol core. <i>Arkivoc</i> , 2004 , 2003, 140-154 | 0.9 | 3 |
| 7 | Synthesis of Chiral, Enantiopure Allylic Amines by the Julia Olefination of β -Amino Esters. <i>Molecules</i> , 2016 , 21, | 4.8 | 3 |
| 6 | Antibody catalyzed modification of amino acids. Efficient hydrolysis of tyrosine benzoate. <i>Chemical Communications</i> , 2001 , 715-716 | 5.8 | 2 |
| 5 | Simultaneous Quantification of Antioxidants Paraxanthine and Caffeine in Human Saliva by Electrochemical Sensing for CYP1A2 Phenotyping. <i>Antioxidants</i> , 2020 , 10, | 7.1 | 2 |
| 4 | Fluorescent Imprinted Nanoparticles for the Effective Monitoring of Irinotecan in Human Plasma. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 2 |
| 3 | Biginelli Reaction and β -Secretase Inhibition: A Multicomponent Reaction as a Friendly Educational Approach to Bioactive Compounds. <i>Journal of Chemical Education</i> , 2021 , 98, 1756-1761 | 2.4 | 2 |
| 2 | 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, 968-72 | 4.3 | 1 |
| 1 | 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 | 0.6 | 1 |