

Carlo Bertucci

List of Publications by Year in descending order

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79
papers

3,380
citations

218677

26
h-index

155660

55
g-index

82
all docs

82
docs citations

82
times ranked

4288
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | β 2-Amyloid aggregation induced by human acetylcholinesterase: inhibition studies. <i>Biochemical Pharmacology</i> , 2003, 65, 407-416. | 4.4 | 518 |
| 2 | Insight Into the Kinetic of Amyloid β 2 (1 α 42) Peptide Self-Aggregation: Elucidation of Inhibitors TM Mechanism of Action. <i>ChemBioChem</i> , 2007, 8, 2152-2161. | 2.6 | 328 |
| 3 | Reversible and Covalent Binding of Drugs to Human Serum Albumin: Methodological Approaches and Physiological Relevance. <i>Current Medicinal Chemistry</i> , 2002, 9, 1463-1481. | 2.4 | 316 |
| 4 | Drug binding to human serum albumin: Abridged review of results obtained with high-performance liquid chromatography and circular dichroism. <i>Chirality</i> , 2006, 18, 667-679. | 2.6 | 142 |
| 5 | Posttranscriptional changes of serum albumin: Clinical and prognostic significance in hospitalized patients with cirrhosis. <i>Hepatology</i> , 2014, 60, 1851-1860. | 7.3 | 135 |
| 6 | Use of a Human Serum Albumin-Based High-Performance Liquid Chromatography Chiral Stationary Phase for the Investigation of Protein Binding: Detection of the Allosteric Interaction between Warfarin and Benzodiazepine Binding Sites. <i>Journal of Pharmaceutical Sciences</i> , 1991, 80, 164-166. | 3.3 | 122 |
| 7 | Immobilized serum albumin: Rapid HPLC probe of stereoselective protein-binding interactions. <i>Chirality</i> , 1990, 2, 263-268. | 2.6 | 109 |
| 8 | A SMYD3 Small-Molecule Inhibitor Impairing Cancer Cell Growth. <i>Journal of Cellular Physiology</i> , 2015, 230, 2447-2460. | 4.1 | 95 |
| 9 | Circular dichroism detection in HPLC. <i>Chirality</i> , 1991, 3, 376-385. | 2.6 | 71 |
| 10 | Development and Pharmacological Characterization of Selective Blockers of 2-Arachidonoyl Glycerol Degradation with Efficacy in Rodent Models of Multiple Sclerosis and Pain. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 2612-2632. | 6.4 | 70 |
| 11 | Circular dichroism in drug discovery and development: an abridged review. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 155-166. | 3.7 | 65 |
| 12 | Enantioselective Nonsteroidal Aromatase Inhibitors Identified through a Multidisciplinary Medicinal Chemistry Approach. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7282-7289. | 6.4 | 64 |
| 13 | Species-dependent stereoselective drug binding to albumin: A circular dichroism study. <i>Chirality</i> , 2008, 20, 552-558. | 2.6 | 56 |
| 14 | Stereospecific and Competitive Binding of Drugs to Human Serum Albumin: A Difference Circular Dichroism Approach. <i>Journal of Pharmaceutical Sciences</i> , 1995, 84, 737-741. | 3.3 | 55 |
| 15 | Reliable assay of extreme enantiomeric purity values by a new circular dichroism based HPLC detection system. , 2000, 12, 84-92. | | 46 |
| 16 | Circular dichroic detection in the HPLC of chiral molecules: direct determination of elution orders. <i>Journal of Organic Chemistry</i> , 1984, 49, 5050-5054. | 3.2 | 43 |
| 17 | Heptad Repeat 2 in Herpes Simplex Virus 1 gH Interacts with Heptad Repeat 1 and Is Critical for Virus Entry and Fusion. <i>Journal of Virology</i> , 2006, 80, 2216-2224. | 3.4 | 43 |
| 18 | The binding of 5-fluorouracil to native and modified human serum albumin: UV, CD, and 1H and 19F NMR investigation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1995, 13, 1087-1093. | 2.8 | 41 |

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|----|--|-----|-----------|
| 19 | Rapid screening of small ligand affinity to human serum albumin by an optical biosensor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 32, 707-714. | 2.8 | 40 |
| 20 | Induced circular dichroism as a tool to investigate the binding of drugs to carrier proteins: Classic approaches and new trends. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 113, 34-42. | 2.8 | 38 |
| 21 | Early Absorption and Distribution Analysis of Antitumor and Anti-AIDS Drugs: A Lipid Membrane and Plasma Protein Interactions. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 3536-3546. | 6.4 | 37 |
| 22 | Albumin Homodimers in Patients with Cirrhosis: Clinical and Prognostic Relevance of a Novel Identified Structural Alteration of the Molecule. <i>Scientific Reports</i> , 2016, 6, 35987. | 3.3 | 35 |
| 23 | Ligand binding to a human serum albumin stationary phase: use of same-drug competition to discriminate pharmacologically relevant interactions. , 1998, 12, 248-254. | | 34 |
| 24 | Binding studies of taxanes to human serum albumin by bioaffinity chromatography and circular dichroism. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 42, 81-87. | 2.8 | 33 |
| 25 | Site I on human albumin: Differences in the binding of (R)- and (S)-warfarin. , 1999, 11, 675-679. | | 31 |
| 26 | 5-Imino-1,2,4-thiadiazoles and quinazolines derivatives as glycogen synthase kinase 3 β (GSK-3 β) and phosphodiesterase 7 (PDE7) inhibitors: Determination of blood-brain barrier penetration and binding to human serum albumin. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 45, 677-684. | 4.0 | 30 |
| 27 | Advantages of electronic circular dichroism detection for the stereochemical analysis and characterization of drugs and natural products by liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1269, 69-81. | 3.7 | 29 |
| 28 | Mass spectrometric characterization of human serum albumin dimer: A new potential biomarker in chronic liver diseases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 112, 169-175. | 2.8 | 29 |
| 29 | (3R)-Chiral Control of 3-Alkyl-3-hydroxy- β -lactams via Addition Reaction of Imines to Enolates of 1,3-Dioxolan-4-ones. <i>Journal of Organic Chemistry</i> , 1999, 64, 4643-4651. | 3.2 | 27 |
| 30 | Harnessing the Role of HDAC6 in Idiopathic Pulmonary Fibrosis: Design, Synthesis, Structural Analysis, and Biological Evaluation of Potent Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 9960-9988. | 6.4 | 26 |
| 31 | Enantioselective separation and online affinity chromatographic characterization of R,R- and S,S-fenoterol. <i>Chirality</i> , 2006, 18, 822-827. | 2.6 | 25 |
| 32 | Structural Characterization of Recombinant Therapeutic Proteins by Circular Dichroism. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1508-1516. | 1.6 | 22 |
| 33 | One-pot synthesis of (3R)-hydroxy- β -lactams via enolates of 2-tert-butyl-1,3-dioxolan-4-ones. Part 1. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2527-2531. | 1.8 | 21 |
| 34 | Reversible binding of ethacrynic acid to human serum albumin: Difference circular dichroism study. , 1999, 11, 33-38. | | 21 |
| 35 | Enantioselective inhibition of the binding of frac-profens to human serum albumin induced by lithocholate. <i>Chirality</i> , 2001, 13, 372-378. | 2.6 | 21 |
| 36 | Kinetic disposition of lorazepam with focus on the glucuronidation capacity, transplacental transfer in parturients and racemization in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 397-403. | 2.8 | 21 |

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|----|--|-----|-----------|
| 37 | Determination of levamisole and tetramisole in seized cocaine samples by enantioselective high-performance liquid chromatography and circular dichroism detection. <i>Journal of Chromatography A</i> , 2014, 1363, 150-154. | 3.7 | 21 |
| 38 | Chemical modification of human albumin at cys34 by ethacrynic acid: structural characterisation and binding properties. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998, 18, 127-136. | 2.8 | 20 |
| 39 | <i>N</i> -Aryl-2,6-dimethylbenzamides, a New Generation of Tocainide Analogues as Blockers of Skeletal Muscle Voltage-Gated Sodium Channels. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2589-2600. | 6.4 | 20 |
| 40 | Enantioresolution, stereochemical characterization and biological activity of a chiral large-conductance calcium-activated potassium channel opener. <i>Journal of Chromatography A</i> , 2014, 1363, 162-168. | 3.7 | 20 |
| 41 | Ischaemia-modified albumin: a marker of bacterial infection in hospitalized patients with cirrhosis. <i>Liver International</i> , 2015, 35, 2425-2432. | 3.9 | 20 |
| 42 | Surface plasmon resonance and circular dichroism characterization of cucurbitacins binding to serum albumins for early pharmacokinetic profiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 122, 166-172. | 2.8 | 20 |
| 43 | New insights into the altered binding capacity of pharmaceutical-grade human serum albumin: site-specific binding studies by induced circular dichroism spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 162, 171-178. | 2.8 | 20 |
| 44 | Direct Enantiomeric Separation of Flavanones by High Performance Liquid Chromatography using Various Chiral Stationary Phases. <i>Planta Medica</i> , 1995, 61, 171-176. | 1.3 | 19 |
| 45 | Human Serum Albumin as Chiral Selector in Enantioselective High-Performance Liquid Chromatography. <i>Current Medicinal Chemistry</i> , 2017, 24, 743-757. | 2.4 | 19 |
| 46 | Stereochemical features of 1,4-benzodiazepin-2-ones bound to human serum albumin: Difference CD and UV studies. <i>Chirality</i> , 1990, 2, 167-174. | 2.6 | 18 |
| 47 | Quantitative assay of lorazepam and its metabolite glucuronide by reverse-phase liquid chromatography-tandem mass spectrometry in human plasma and urine samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 389-396. | 2.8 | 18 |
| 48 | HSA binding of HIV protease inhibitors: a high-performance affinity chromatography study. <i>Journal of Separation Science</i> , 2009, 32, 1625-1631. | 2.5 | 18 |
| 49 | Surface plasmon resonance, fluorescence, and circular dichroism studies for the characterization of the binding of BACE-1 inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 827-835. | 3.7 | 17 |
| 50 | Mass spectrometry characterization of circulating human serum albumin microheterogeneity in patients with alcoholic hepatitis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 122, 141-147. | 2.8 | 16 |
| 51 | Circular dichroism detection in high-performance liquid chromatography: Evaluation of the anisotropy factor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1990, 8, 843-846. | 2.8 | 15 |
| 52 | Determination of dextromethorphan and levomethorphan in seized heroin samples by enantioselective HPLC and electronic CD. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 81-82, 76-79. | 2.8 | 15 |
| 53 | Optical biosensor analysis in studying new synthesized bicalutamide analogs binding to androgen receptor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 95, 151-157. | 2.8 | 15 |
| 54 | Synthesis of Optically Active Constrained 2-Substituted Norstatines: A Straightforward Application of Seebach's α -SRS Synthetic Principle. <i>Journal of Organic Chemistry</i> , 2004, 69, 9055-9062. | 3.2 | 14 |

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| 55 | Surface plasmon resonance and isothermal titration calorimetry to monitor the Ni(II)-dependent binding of <i>Helicobacter pylori</i> NikR to DNA. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7971-7980. | 3.7 | 14 |
| 56 | Protein binding investigation by difference circular dichroism: Native and acetylated human serum albumins. <i>Chirality</i> , 1995, 7, 57-61. | 2.6 | 13 |
| 57 | Assessment of the absolute configuration of a series of (3R)-3-hydroxy-3-alkyl- β -lactams. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 3401-3409. | 1.8 | 12 |
| 58 | Binding properties of human albumin modified by covalent binding of penicillin. <i>BBA - Proteins and Proteomics</i> , 2001, 1544, 386-392. | 2.1 | 12 |
| 59 | Synthesis and HSA binding characterisation of the water soluble 7-succinylpaclitaxel. <i>European Journal of Medicinal Chemistry</i> , 2003, 38, 383-389. | 5.5 | 12 |
| 60 | Optical Biosensors as a Tool for Early Determination of Absorption and Distribution Parameters of Lead Candidates and Drugs. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 433-440. | 1.1 | 12 |
| 61 | Circular dichroism of rifamycin antibiotics. 2. Circular dichroism and stereochemistry in solution of 8-O-methylrifamycin SV. <i>Journal of the American Chemical Society</i> , 1985, 107, 17-19. | 13.7 | 11 |
| 62 | Characterization of the species-dependent ketoprofen/albumin binding modes by induced CD spectroscopy and TD-DFT calculations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 112, 176-180. | 2.8 | 11 |
| 63 | Structural basis for the magnesium-dependent activation of transketolase from <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2132-2145. | 2.4 | 11 |
| 64 | Assignment of the absolute configuration at the sulfur atom of thioridazine metabolites by the analysis of their chiroptical properties: The case of thioridazine 2-sulfoxide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 796-801. | 2.8 | 10 |
| 65 | Tocainide analogues binding to human serum albumin: A HPLAC and circular dichroism study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 179-185. | 2.8 | 9 |
| 66 | Nonsteroidal Androgen Receptor Ligands: Versatile Syntheses and Biological Data. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 454-458. | 2.8 | 9 |
| 67 | Unveiling the Biochemistry of the Epigenetic Regulator SMYD3. <i>Biochemistry</i> , 2019, 58, 3634-3645. | 2.5 | 8 |
| 68 | Helicity propensity and interaction of synthetic peptides from heptad-repeat domains of herpes simplex virus 1 glycoprotein H: A circular dichroism study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 781-791. | 2.3 | 7 |
| 69 | Species-dependent binding of tocainide analogues to albumin: Affinity chromatography and circular dichroism study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 968, 69-78. | 2.3 | 7 |
| 70 | Species-dependent binding of new synthesized bicalutamide analogues to albumin by optical biosensor analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 111, 324-332. | 2.8 | 7 |
| 71 | Indole Derivative Interacts with Estrogen Receptor Beta and Inhibits Human Ovarian Cancer Cell Growth. <i>Molecules</i> , 2020, 25, 4438. | 3.8 | 7 |
| 72 | New efficient synthesis of (3R,4S)-3-methyl-3-hydroxy-4-phenyl- β -lactam. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 2765-2773. | 1.8 | 6 |

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|----|---|-----|-----------|
| 73 | Camptothecin and Thiocamptothecin: the Role of Sulfur in Shifting the Hydrolysis Equilibrium towards the Closed Lactone Form. <i>ChemMedChem</i> , 2011, 6, 1706-1714. | 3.2 | 6 |
| 74 | Conformational Flexibility and Absolute Stereochemistry of (3 <i>R</i>)-3-Hydroxy-4-oxo-2-pyrrolidone Investigated by Chiroptical Properties and TD-DFT Calculations. <i>Chirality</i> , 2012, 24, 741-750. | 2.6 | 6 |
| 75 | Stopped-Flow Enantioselective HPLC-CD Analysis and TD-DFT Stereochemical Characterization of Methyl <i>trans</i> -3-(3,4-Dimethoxyphenyl)Glycidate. <i>Chirality</i> , 2015, 27, 914-918. | 2.6 | 6 |
| 76 | Reversible human serum albumin binding of lipocrine: A circular dichroism study. <i>Chirality</i> , 2011, 23, 827-832. | 2.6 | 5 |
| 77 | Absolute Configuration Assignment of Chiral Resorcin[4]arenes from ECD Spectra. <i>Journal of Organic Chemistry</i> , 2017, 82, 202-210. | 3.2 | 5 |
| 78 | Stereochemical characterization of fluorinated 2-(phenanthren-1-yl)propionic acids by enantioselective high performance liquid chromatography analysis and electronic circular dichroism detection. <i>Journal of Chromatography A</i> , 2012, 1232, 128-133. | 3.7 | 4 |
| 79 | Stereochemical and conformational study on fenoterol by ECD spectroscopy and TD-DFT calculations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 91, 92-96. | 2.8 | 4 |