Alessandro Desideri

List of Publications by Year
in descending order

264 papers	6,069 citations	81889 39 h-index	155644 55 g-index
268 all docs	268 docs citations	268 times ranked	6690 citing authors

#	Article	IF	Citations
1	Dysbiosis of gut microbiota in a selected population of Parkinson's patients. Parkinsonism and Related Disorders, 2019, 65, 124-130.	2.2	144
2	Temperature-Controlled Encapsulation and Release of an Active Enzyme in the Cavity of a Self-Assembled DNA Nanocage. ACS Nano, 2013, 7, 9724-9734.	14.6	132
3	Crystal structure of yeast Cu,Zn superoxide dismutase. Journal of Molecular Biology, 1992, 225, 791-809.	4.2	121
4	Synergistic antitumor effect between vorinostat and topotecan in small cell lung cancer cells is mediated by generation of reactive oxygen species and DNA damage-induced apoptosis. Molecular Cancer Therapeutics, 2009, 8, 3075-3087.	4.1	104
5	Unique structural features of the monomeric Cu,Zn superoxide dismutase from Escherichia coli, revealed by X-ray crystallography. Journal of Molecular Biology, 1997, 274, 408-420.	4.2	83
6	Evolutionary conservativeness of electric field in the Cu,Zn superoxide dismutase active site. Journal of Molecular Biology, 1992, 223, 337-342.	4.2	81
7	Single Mutation in the Linker Domain Confers Protein Flexibility and Camptothecin Resistance to Human Topoisomerase I. Journal of Biological Chemistry, 2003, 278, 43268-43275.	3.4	81
8	Droplet Microfluidics Platform for Highly Sensitive and Quantitative Detection of Malaria-Causing <i>Plasmodium</i> Parasites Based on Enzyme Activity Measurement. ACS Nano, 2012, 6, 10676-10683.	14.6	81
9	Molecular dynamics simulation of solvated azurin: Correlation between surface solvent accessibility and water residence times. Proteins: Structure, Function and Bioinformatics, 2000, 39, 56-67.	2.6	80
10	Receptor-Mediated Entry of Pristine Octahedral DNA Nanocages in Mammalian Cells. ACS Nano, 2016, 10, 5971-5979.	14.6	76
11	An electrochemical multienzymatic biosensor for determination of cholesterol. Bioelectrochemistry, 2001, 54, 17-22.	4.6	73
12	Impaired copper binding by the H46R mutant of human Cu,Zn superoxide dismutase, involved in amyotrophic lateral sclerosis. FEBS Letters, 1994, 356, 314-316.	2.8	71
13	Role of the Dimeric Structure in Cu,Zn Superoxide Dismutase. Journal of Biological Chemistry, 1998, 273, 5655-5661.	3.4	68
14	Oxidovanadium(IV) complexes with chrysin and silibinin: anticancer activity and mechanisms of action in a human colon adenocarcinoma model. Journal of Biological Inorganic Chemistry, 2015, 20, 1175-1191.	2.6	65
15	A Comparative Genomic Analysis Provides Novel Insights Into the Ecological Success of the Monophasic Salmonella Serovar 4,[5],12:i:-. Frontiers in Microbiology, 2018, 9, 715.	3.5	65
16	Evolutionary constraints for dimer formation in prokaryotic Cu,Zn superoxide dismutase 1 1Edited by R. Huber. Journal of Molecular Biology, 1999, 285, 283-296.	4.2	63
17	Selective targeting and degradation of doxorubicin-loaded folate-functionalized DNA nanocages. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1181-1190.	3.3	59
18	Anion Size Modulates the Structure of the A State of Cytochromec. Biochemistry, 2000, 39, 12632-12638.	2.5	58

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19	Evidence of Domain Formation in Cardiolipinâ^'Glycerophospholipid Mixed Monolayers. A Thermodynamic and AFM Study. Journal of Physical Chemistry B, 2005, 109, 15950-15957.	2.6	58
20	Crystal structure solution and refinement of the semisynthetic cobalt-substituted bovine erythrocyte superoxide dismutase at 2.0 Ã… resolution. Journal of Molecular Biology, 1992, 226, 227-238.	4.2	53
21	Functional Analysis and Molecular Dynamics Simulation of LOX-1 K167N Polymorphism Reveal Alteration of Receptor Activity. PLoS ONE, 2009, 4, e4648.	2.5	53
22	Targeting Tumor Cells through Chitosan-Folate Modified Microcapsules Loaded with Camptothecin. Bioconjugate Chemistry, 2011, 22, 1066-1072.	3.6	52
23	Tuning the isoelectric point of graphene by electrochemical functionalization. Scientific Reports, 2015, 5, 11794.	3.3	50
24	Thr729 in human topoisomerase I modulates anti-cancer drug resistance by altering protein domain communications as suggested by molecular dynamics simulations. Nucleic Acids Research, 2008, 36, 5645-5651.	14.5	49
25	Nitric oxide binding to ferrous native horse heart cytochrome c and to its carboxymethylated derivative: A spectroscopic and thermodynamic Study. Journal of Inorganic Biochemistry, 1994, 53, 273-280.	3.5	48
26	Modulation of the Catalytic Rate of Cu,Zn Superoxide Dismutase in Single and Double Mutants of Conserved Positively and Negatively Charged Residues. Biochemistry, 1995, 34, 6043-6049.	2.5	48
27	Functional and crystallographic characterization of Salmonella typhimurium Cu,Zn superoxide dismutase coded by the sodCI virulence gene 1 1Edited by R. Huber. Journal of Molecular Biology, 2000, 302, 465-478.	4.2	47
28	Effect on DNA relaxation of the single Thr718Ala mutation in human topoisomerase I: a functional and molecular dynamics study. Nucleic Acids Research, 2005, 33, 3339-3350.	14.5	47
29	Structure of Nanoscale Truncated Octahedral DNA Cages: Variation of Single-Stranded Linker Regions and Influence on Assembly Yields. ACS Nano, 2010, 4, 1367-1376.	14.6	47
30	Protein concerted motions in the DNA-human topoisomerase I complex. Nucleic Acids Research, 2003, 31, 1525-1535.	14.5	44
31	Interaction between natural compounds and human topoisomerase I. Biological Chemistry, 2012, 393, 1327-1340.	2.5	44
32	New Hints on the pH-Driven Tautomeric Equilibria of the Topotecan Anticancer Drug in Aqueous Solutions from an Integrated Spectroscopic and Quantum-Mechanical Approach. Journal of the American Chemical Society, 2005, 127, 15429-15436.	13.7	43
33	Gimatecan and other camptothecin derivatives poison Leishmania DNA-topoisomerase IB leading to a strong leishmanicidal effect. Biochemical Pharmacology, 2013, 85, 1433-1440.	4.4	43
34	Real-Time Label-Free Direct Electronic Monitoring of Topoisomerase Enzyme Binding Kinetics on Graphene. ACS Nano, 2015, 9, 11166-11176.	14.6	43
35	Azide, cyanide, fluoride, imidazole and pyridine binding to ferric and ferrous native horse heart cytochrome c and to its carboxymethylated derivative: A comparative study. Journal of Inorganic Biochemistry, 1996, 62, 213-222.	3.5	42
36	Structure of calmodulin complexed with an olfactory CNG channelfragment and role of the central linker: Residual dipolar couplingsto evaluate calmodulin binding modes outside the kinase family. Journal of Biomolecular NMR, 2005, 31, 185-199.	2.8	42

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37	UVâ˘Vis Spectra of the Anticancer Campothecin Family Drugs in Aqueous Solution: Specific Spectroscopic Signatures Unraveled by a Combined Computational and Experimental Study. Journal of Physical Chemistry B, 2009, 113, 5369-5375.	2.6	42
38	Cellular uptake of covalent and non-covalent DNA nanostructures with different sizes and geometries. Nanoscale, 2019, 11, 10808-10818.	5.6	42
39	Effects of dutasteride on the expression of genes related to androgen metabolism and related pathway in human prostate cancer cell lines. Investigational New Drugs, 2007, 25, 491-497.	2.6	41
40	Real-time detection of TDP1 activity using a fluorophoreâ€“quencher coupled DNA-biosensor. Biosensors and Bioelectronics, 2013, 48, 230-237.	10.1	41
41	Effect of oxindolimine copper(<scp>ii</scp>) and zinc(<scp>ii</scp>) complexes on human topoisomerase I activity. Metallomics, 2014, 6, 117-125.	2.4	41
42	Structural Evolution and Dynamics of the p53 Proteins. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a028308.	6.2	41
43	Valproic Acid Induces Neuroendocrine Differentiation and UGT2B7 Up-Regulation in Human Prostate Carcinoma Cell Line. Drug Metabolism and Disposition, 2007, 35, 968-972.	3.3	40
44	Erybraedin C, a natural compound from the plant <i>Bituminaria bituminosa</i>, inhibits both the cleavage and religation activities of human topoisomerase I. Biochemical Journal, 2010, 425, 531-539.	3.7	40
45	Detection of quasispecies variants predicted to use CXCR4 by ultra-deep pyrosequencing during early HIV infection. Aids, 2011, 25, 611-617.	2.2	40
46	The p53 tetramer shows an induced-fit interaction of the C-terminal domain with the DNA-binding domain. Oncogene, 2016, 35, 3272-3281.	5.9	40
47	Effect of Low-Protein Diet and Inulin on Microbiota and Clinical Parameters in Patients with Chronic Kidney Disease. Nutrients, 2019, 11, 3006.	4.1	40
48	Quercetin pentaacetate inhibits in vitro human respiratory syncytial virus adhesion. Virus Research, 2020, 276, 197805.	2.2	40
49	Removal of non-blue copper from ascorbate oxidase. FEBS Letters, 1979, 100, 318-320.	2.8	37
50	Magnetic susceptibility studies of the native cupro-zinc superoxide dismutase and its cobalt-substituted derivatives. Antiferromagnetic coupling in the imidazolate-bridged copper(II)-cobalt(II) pair. Journal of the American Chemical Society, 1986, 108, 300-302.	13.7	37
51	Molecular mechanism of statin-mediated LOX-1 inhibition. Cell Cycle, 2015, 14, 1583-1595.	2.6	36
52	Crystal structure of the cyanide-inhibitedXenopus laevisCu,Zn superoxide dismutase at 98 K. FEBS Letters, 1994, 349, 93-98.	2.8	35
53	Role of the electrostatic loop charged residues in Cu, Zn superoxide dismutase. Protein Science, 1998, 7, 2354-2358.	7.6	35
54	Role of the Tertiary and Quaternary Structures in the Stability of Dimeric Copper,Zinc Superoxide Dismutases. Archives of Biochemistry and Biophysics, 2000, 377, 215-218.	3.0	35

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55	Palladium(<scp>ii</scp>) complexes with thiosemicarbazones derived from pyrene as topoisomerase IB inhibitors. Dalton Transactions, 2019, 48, 16509-16517.	3.3	34
56	Reconstitution of stellacyanin as a case of direct Cu(I) transfer between yeast copper thionein and â€˜blueâ€™ copper apoprotein. FEBS Letters, 1983, 152, 94-96.	2.8	32
57	Crystallographic Study of Azide-inhibited Bovine Cu,Zn Superoxide Dismutase. Journal of Molecular Biology, 1994, 240, 179-183.	4.2	32
58	Structural and Dynamical Effects Induced by the Anticancer Drug Topotecan on the Human Topoisomerase I â€“ DNA Complex. PLoS ONE, 2010, 5, e10934.	2.5	32
59	Prokaryotic Cu,Zn superoxide dismutases. Biochemical Society Transactions, 2003, 31, 1322-1325.	3.4	31
60	Inhibition of glutathione transferase Ï€ from human placenta by 1-chloro-2,4-dinitrobenzene occurs because of covalent reaction with cysteine 47. Archives of Biochemistry and Biophysics, 1992, 297, 119-122.	3.0	30
61	Spectroscopic Characterization of Recombinant Cu,Zn Superoxide Dismutase fromPhotobacterium leiognathiExpressed inEscherichia coli:Â Evidence for a Novel Catalytic Copper Binding Site. Biochemistry, 1997, 36, 7109-7113.	2.5	30
62	Cu,Zn Superoxide Dismutase fromPhotobacteriumleiognathiIs an Hyperefficient Enzymeâ€. Biochemistry, 1998, 37, 12287-12292.	2.5	30
63	Conjugated eicosapentaenoic acid inhibits human topoisomerase IB with a mechanism different from camptothecin. Archives of Biochemistry and Biophysics, 2009, 486, 103-110.	3.0	30
64	Entry, fate and degradation of DNA nanocages in mammalian cells: a matter of receptors. Nanoscale, 2018, 10, 12078-12086.	5.6	30
65	A Novel Co(II) binding site in copper-free superoxide dismutase. FEBS Letters, 1979, 106, 142-144.	2.8	29
66	Structural dynamics of the mitochondrial ADP/ATP carrier revealed by molecular dynamics simulation studies. Proteins: Structure, Function and Bioinformatics, 2006, 65, 681-691.	2.6	29
67	Evidence of the crucial role of the linker domain on the catalytic activity of human topoisomerase I by experimental and simulative characterization of the Lys681Ala mutant. Nucleic Acids Research, 2009, 37, 6849-6858.	14.5	29
68	Design of a novel LOX-1 receptor antagonist mimicking the natural substrate. Biochemical and Biophysical Research Communications, 2013, 438, 340-345.	2.1	29
69	Molecular mechanism of the camptothecin resistance of Glu710Gly topoisomerase IB mutant analyzed in vitro and in silico. Molecular Cancer, 2013, 12, 100.	19.2	29
70	Simulations of DNA topoisomerase 1B bound to supercoiled DNA reveal changes in the flexibility pattern of the enzyme and a secondary proteinâ€“DNA binding site. Nucleic Acids Research, 2014, 42, 9304-9312.	14.5	29
71	Iron entry route in horse spleen apoferritin. FEBS Letters, 1991, 287, 10-14.	2.8	28
72	Simulation of superoxide-superoxide dismutase association rate for six natural variants. Comparison with the experimental catalytic rate. The Journal of Physical Chemistry, 1994, 98, 10554-10557.	2.9	28

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73	Fourier Transform Infrared Analysis of the Interaction of Azide with the Active Site of Oxidized and Reduced Bovine Cu,Zn Superoxide Dismutaseâ€. Biochemistry, 1998, 37, 4459-4464.	2.5	28
74	A Novel Heme Protein, the Cu,Zn-Superoxide Dismutase from Haemophilus ducreyi. Journal of Biological Chemistry, 2001, 276, 30326-30334.	3.4	28
75	DNA hairpins promote temperature controlled cargo encapsulation in a truncated octahedral nanocage structure family. Nanoscale, 2016, 8, 13333-13341.	5.6	28
76	Inhibition of human DNA topoisomerase IB by nonmutagenic ruthenium(<scp>ii</scp>)-based compounds with antitumoral activity. Metallomics, 2016, 8, 179-192.	2.4	28
77	Effective binding force calculation in a dimeric protein by molecular dynamics simulation. Journal of Chemical Physics, 2002, 116, 6329-6338.	3.0	27
78	Molecular Dynamics Simulation of the RNA Complex of a Double-Stranded RNA-Binding Domain Reveals Dynamic Features of the Intermolecular Interface and Its Hydration. Biophysical Journal, 2002, 83, 3542-3552.	0.5	27
79	Inhibition of human DNA topoisomerase IB by a Cyclometalated Gold III compound: Analysis on the different steps of the enzyme catalytic cycle. Archives of Biochemistry and Biophysics, 2011, 516, 108-112.	3.0	27
80	Molecular dynamics of the full-length p53 monomer. Cell Cycle, 2013, 12, 3098-3108.	2.6	27
81	Reptile Heme Protein Structure: X-ray Crystallographic Study of the Aquo-met and Cyano-met Derivatives of the Loggerhead Sea Turle (Caretta caretta) Myoglobin at 2.0 Å… Resolution. Journal of Molecular Biology, 1995, 247, 459-465.	4.2	26
82	Conserved Enzyme-Substrate Electrostatic Attraction in Prokaryotic Cu,Zn Superoxide Dismutases. Biochemical and Biophysical Research Communications, 1998, 244, 908-911.	2.1	26
83	Structure and Hydration of the DNA-Human Topoisomerase I Covalent Complex. Biophysical Journal, 2001, 81, 490-500.	0.5	26
84	Structure and Stability of the Insulin Dimer Investigated by Molecular Dynamics Simulation. Journal of Biomolecular Structure and Dynamics, 2001, 18, 761-772.	3.5	26
85	Role of the protein in the DNA sequence specificity of the cleavage site stabilized by the camptothecin topoisomerase IB inhibitor: a metadynamics study. Nucleic Acids Research, 2013, 41, 9977-9986.	14.5	26
86	Human topoisomerase inhibition and DNA/BSA binding of Ru(II)â€“SCAR complexes as potential anticancer candidates for oral application. BioMetals, 2017, 30, 321-334.	4.1	26
87	.beta.-Bungarotoxin-mediated liposome fusion: spectroscopic characterization by fluorescence and ESR. Biochemistry, 1990, 29, 9644-9651.	2.5	25
88	Reduced sensitivity of O2 transport to allosteric effectors and temperature in loggerhead sea turtle hemoglobin: functional and spectroscopic study. BBA - Proteins and Proteomics, 1992, 1159, 129-133.	2.1	25
89	Role of the Linker Domain and the 203â€“214 N-Terminal Residues in the Human Topoisomerase I DNA Complex Dynamics. Biophysical Journal, 2004, 87, 4087-4097.	0.5	25
90	Molecular dynamics simulation of human LOX-1 provides an explanation for the lack of OxLDL binding to the Trp150Ala mutant. BMC Structural Biology, 2007, 7, 73.	2.3	25

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91	Deciphering the Structural Properties That Confer Stability to a DNA Nanocage. ACS Nano, 2009, 3, 1813-1822.	14.6	25
92	Role of 13-(di)phenylalkyl berberine derivatives in the modulation of the activity of human topoisomerase IB. International Journal of Biological Macromolecules, 2015, 77, 68-75.	7.5	25
93	Evidence of His61 Imidazolate Bridge Rupture in Reduced Crystalline Cu,Zn Superoxide Dismutase. Biochemical and Biophysical Research Communications, 1997, 241, 119-121.	2.1	24
94	Efficacy of a Binuclear Cyclopalladated Compound Therapy for Cutaneous Leishmaniasis in the Murine Model of Infection with Leishmania amazonensis and Its Inhibitory Effect on Topoisomerase 1B. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	24
95	pH-induced cleavage of the proximal histidine to iron bond in the nitric oxide derivative of ferrous monomeric hemosproteins and of the â€˜chelatedâ€™ protoheme model compound. BBA - Proteins and Proteomics, 1985, 829, 299-302.	2.1	23
96	Cooperative effect of inositol hexakisphosphate, bezafibrate, and clofibric acid on the spectroscopic properties of the nitric oxide derivative of ferrous human hemoglobin. Journal of Inorganic Biochemistry, 1993, 50, 263-272.	3.5	23
97	Mutation of Lys-120 and Lys-134 drastically reduces the catalytic rate of Cu,Zn superoxide dismutase. FEBS Letters, 1994, 352, 76-78.	2.8	23
98	Membrane-perturbing activity ofViperidae myotoxins: an electrostatic surface potential approach to a puzzling problem. , 2000, 13, 14-19.		23
99	High-Density ZnO Nanowires as a Reversible Myogenicâ€"Differentiation Switch. ACS Applied Materials & Interfaces, 2018, 10, 14097-14107.	8.0	23
100	Comparative stability studies on the iron and manganese forms of the cambialistic superoxide dismutase fromPropionibacterium shermanii. FEBS Letters, 1997, 414, 122-124.	2.8	22
101	X-ray Absorption Investigation of a Unique Protein Domain Able To Bind both Copper(I) and Copper(II) at Adjacent Sites of the N-Terminus of Haemophilus ducreyi Cu,Zn Superoxide Dismutase. Biochemistry, 2005, 44, 13144-13150.	2.5	22
102	Human topoisomerase IB is a target of a thiosemicarbazone copper(II) complex. Archives of Biochemistry and Biophysics, 2016, 606, 34-40.	3.0	22
103	Simulative and Experimental Characterization of a pH-Dependent Clamp-like DNA Triple-Helix Nanoswitch. Journal of the American Chemical Society, 2017, 139, 5321-5329.	13.7	22
104	Can Gut Microbiota Be a Good Predictor for Parkinsonâ€™s Disease? A Machine Learning Approach. Brain Sciences, 2020, 10, 242.	2.3	22
105	Combined and selective miR-21 silencing and doxorubicin delivery in cancer cells using tailored DNA nanostructures. Cell Death and Disease, 2021, 12, 7.	6.3	22
106	Reaction of N,N-diethyldithiocarbamate and other bidentate ligands with Zn, Co and Cu bovine carbonic anhydrases. BBA - Proteins and Proteomics, 1983, 746, 168-175.	2.1	21
107	Formation of a molten-globule-like state of cytochrome c induced by high concentrations of glycerol. Biochimie, 1999, 81, 745-750.	2.6	21
108	The different cleavage DNA sequence specificity explains the camptothecin resistance of the human topoisomerase I Glu418Lys mutant. Nucleic Acids Research, 2006, 34, 5093-5100.	14.5	21

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109	The open state of human topoisomerase I as probed by molecular dynamics simulation. Nucleic Acids Research, 2007, 35, 3032-3038.	14.5	21
110	The sterile alpha-motif (SAM) domain of p63 binds in vitro monoasialoganglioside (GM1) micelles. Biochemical Pharmacology, 2011, 82, 1262-1268.	4.4	21
111	AS1411 Aptamer Linked to DNA Nanostructures Diverts Its Traffic Inside Cancer Cells and Improves Its Therapeutic Efficacy. Pharmaceutics, 2021, 13, 1671.	4.5	21
112	Intestinal Taxa Abundance and Diversity in Inflammatory Bowel Disease Patients: An Analysis including Covariates and Confounders. Nutrients, 2022, 14, 260.	4.1	21
113	An X-ray absorption study of the reconstitution process of bovine Cu,Zn superoxide dismutase by Cu(I)-glutathione complex. FEBS Letters, 1993, 322, 165-167.	2.8	20
114	Low-Temperature Optical Spectroscopy of Native and Azide-Reacted Bovine Cu,Zn Superoxide Dismutase. A Structural Dynamics Study. Biochemistry, 1994, 33, 15103-15109.	2.5	20
115	Flexibility in monomeric Cu,Zn superoxide dismutase detected by limited proteolysis and molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2002, 47, 513-520.	2.6	20
116	Cost-effectiveness analysis of noninvasive strategies to evaluate patients with chest pain. Journal of the American Society of Echocardiography, 2003, 16, 1287-1291.	2.8	20
117	Hif1Î± down-regulation is associated with transposition of great arteries in mice treated with a retinoic acid antagonist. BMC Genomics, 2010, 11, 497.	2.8	20
118	A Simple and Fast Semiautomatic Procedure for the Atomistic Modeling of Complex DNA Polyhedra. Journal of Chemical Information and Modeling, 2016, 56, 941-949.	5.4	20
119	Formate as an NMR probe of anion binding to copper-zinc and copper-cobalt bovine erythrocyte superoxide dismutase. Biochemistry, 1992, 31, 12410-12415.	2.5	19
120	Substrate-induced conformational changes of the mitochondrial oxoglutarate carrier: a spectroscopic and molecular modelling study. Molecular Membrane Biology, 2005, 22, 443-452.	2.0	19
121	NMR Structure of the p63 SAM Domain and Dynamical Properties of G534V and T537P Pathological Mutants, Identified in the AEC Syndrome. Cell Biochemistry and Biophysics, 2006, 44, 475-489.	1.8	19
122	Importance of V3 Loop Flexibility and Net Charge in the Context of Co-Receptor Recognition. A Molecular Dynamics Study on HIV gp120. Journal of Biomolecular Structure and Dynamics, 2012, 29, 879-891.	3.5	19
123	Metal complexes of 3-(4-bromophenyl)-1-pyridin-2-ylprop-2-en-1-one thiosemicarbazone: cytotoxic activity and investigation on the mode of action of the gold(III) complex. BioMetals, 2016, 29, 515-526.	4.1	19
124	Ru/Fe bimetallic complexes: Synthesis, characterization, cytotoxicity and study of their interactions with DNA/HSA and human topoisomerase IB. Archives of Biochemistry and Biophysics, 2017, 636, 28-41.	3.0	19
125	Development of Derivatives of 3, 3â€²-Diindolylmethane as Potent Leishmania donovani Bi-Subunit Topoisomerase IB Poisons. PLoS ONE, 2011, 6, e28493.	2.5	19
126	Topoisomerase 1B as a Target Against Leishmaniasis. Mini-Reviews in Medicinal Chemistry, 2015, 15, 203-210.	2.4	19

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127	A Natural Anticancer Agent Thaspine Targets Human Topoisomerase IB. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 356-363.	1.7	19
128	Static and dynamic water molecules in Cu,Zn superoxide dismutase. Proteins: Structure, Function and Bioinformatics, 2003, 51, 607-615.	2.6	18
129	Active-site Copper and Zinc Ions Modulate the Quaternary Structure of Prokaryotic Cu,Zn Superoxide Dismutase. Journal of Molecular Biology, 2003, 326, 1351-1360.	4.2	18
130	Non-mutagenic Ru(<scp>ii</scp>) complexes: cytotoxicity, topoisomerase IB inhibition, DNA and HSA binding. Dalton Transactions, 2019, 48, 14885-14897.	3.3	18
131	Electron paramagnetic resonance properties of liver fluke (Dicrocoelium dendriticum) nitrosyl hemoglobin. FEBS Letters, 1984, 166, 378-380.	2.8	17
132	Toward the Engineering of a Super Efficient Enzyme. Biochemical and Biophysical Research Communications, 1999, 256, 425-428.	2.1	17
133	Single mutation at the intersubunit interface confers extra efficiency to Cu,Zn superoxide dismutase. FEBS Letters, 2000, 483, 17-20.	2.8	17
134	Simulative and experimental investigation on the cleavage site that generates the soluble human LOX-1. Archives of Biochemistry and Biophysics, 2013, 540, 9-18.	3.0	17
135	Design, selection and optimization of an anti-TRAIL-R2/anti-CD3 bispecific antibody able to educate T cells to recognize and destroy cancer cells. MAbs, 2018, 10, 1084-1097.	5.2	17
136	Diving behaviour and haemoglobin function: the primary structure of the Î±- and Î²-chains of the sea turtle (Caretta caretta) and its functional implications. Biochemical Journal, 1996, 316, 959-965.	3.7	16
137	The Heme-Containing N-Fragment (Residues 1â€“56) of Cytochrome c Is a Bis-histidine Functional System. Archives of Biochemistry and Biophysics, 2000, 379, 331-336.	3.0	16
138	Single Mutation Induces a Metal-Dependent Subunit Association in Dimeric Cu,Zn Superoxide Dismutase. Biochemical and Biophysical Research Communications, 2000, 272, 81-83.	2.1	16
139	Structural-dynamical investigation of the ZnuA histidine-rich loop: involvement in zinc management and transport. Journal of Computer-Aided Molecular Design, 2011, 25, 181-194.	2.9	16
140	A model for the incorporation of metal from the copper chaperone CCS into Cu,Zn superoxide dismutase. Structure, 1999, 7, 903-908.	3.3	15
141	The Mitochondrial Oxoglutarate Carrier:Â Structural and Dynamic Properties of Transmembrane Segment IV Studied by Site-Directed Spin Labelingâ€‚â€¡. Biochemistry, 2003, 42, 5493-5499.	2.5	15
142	Characterization of a novel CYP2C9 gene mutation and structural bioinformatic protein analysis in a warfarin hypersensitive patient. Pharmacogenetics and Genomics, 2011, 21, 344-346.	1.5	15
143	A derivative of the natural compound kakuol affects DNA relaxation of topoisomerase IB inhibiting the cleavage reaction. Archives of Biochemistry and Biophysics, 2013, 530, 7-12.	3.0	15
144	GATA6 Deficiency Leads to Epithelial Barrier Dysfunction and Enhances Susceptibility to Gut Inflammation. Journal of Crohn's and Colitis, 2022, 16, 301-311.	1.3	15

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145	Mapping the copper ligands of Cu,Zn superoxide dismutase by nuclear overhauser enhancement of the isotropically shifted1H-NMR lines of the Cu,Co derivative. FEBS Letters, 1990, 261, 231-236.	2.8	14
146	10-Undecanhydroxamic acid, a hydroxamate derivative of the undecanoic acid, has strong antimicrobial activity through a mechanism that limits iron availability. FEMS Microbiology Letters, 2009, 294, 61-67.	1.8	14
147	Simulative Analysis of a Truncated Octahedral DNA Nanocage Family Indicates the Single-Stranded Thymidine Linkers as the Major Player for the Conformational Variability. Journal of Physical Chemistry C, 2011, 115, 16819-16827.	3.1	14
148	Sticholysin II: A pore-forming toxin as a probe to recognize sphingomyelin in artificial and cellular membranes. Toxicon, 2012, 60, 724-733.	1.6	14
149	Binding of an Indenoisoquinoline to the Topoisomerase-DNA Complex Induces Reduction of Linker Mobility and Strengthening of Protein-DNA Interaction. PLoS ONE, 2012, 7, e51354.	2.5	14
150	Structural dynamics of V3 loop with different electrostatics: implications on co-receptor recognition: a molecular dynamics study of HIV gp120. Journal of Biomolecular Structure and Dynamics, 2013, 31, 403-413.	3.5	14
151	The human topoisomerase 1B Arg634Ala mutation results in camptothecin resistance and loss of inter-domain motion correlation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2712-2721.	2.3	14
152	Engineering a responsive DNA triple helix into an octahedral DNA nanostructure for a reversible opening/closing switching mechanism: a computational and experimental integrated study. Nucleic Acids Research, 2018, 46, 9951-9959.	14.5	14
153	Plant microRNAs from Moringa oleifera Regulate Immune Response and HIV Infection. Frontiers in Pharmacology, 2020, 11, 620038.	3.5	14
154	Natural Compounds as Therapeutic Agents: The Case of Human Topoisomerase IB. International Journal of Molecular Sciences, 2021, 22, 4138.	4.1	14
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