Donatella Tondi

List of Publications by Year
in descending order

42	1,210	331670 21	377865 34
papers	citations	h-index	g-index

48	48	48	1407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ten Years with New Delhi Metallo-Î²-lactamase-1 (NDM-1): From Structural Insights to Inhibitor Design. ACS Infectious Diseases, 2019, 5, 9-34.	3.8	123
2	Structure-based discovery and in-parallel optimization of novelcompetitive inhibitors of thymidylate synthase. Chemistry and Biology, 1999, 6, 319-331.	6.0	103
3	Thymidylate Synthase Structure, Function and Implication in Drug Discovery. Current Medicinal Chemistry, 2005, 12, 2241-2258.	2.4	91
4	Proteinâ€“protein interface-binding peptides inhibit the cancer therapy target human thymidylate synthase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E542-9.	7.1	77
5	Structure-Based Optimization of a Non-Î²-lactam Lead Results in Inhibitors That Do Not Up-Regulate Î²-Lactamase Expression in Cell Culture. Journal of the American Chemical Society, 2005, 127, 4632-4639.	13.7	58
6	Mono- and Disubstituted-3,8-diazabicyclo[3.2.1]octane Derivatives as Analgesics Structurally Related to Epibatidine:Â Synthesis, Activity, and Modeling. Journal of Medicinal Chemistry, 1998, 41, 674-681.	6.4	56
7	Structure-Based Design of Inhibitors Specific for Bacterial Thymidylate Synthase,. Biochemistry, 1999, 38, 1607-1617.	2.5	49
8	Structure-based design and in-parallel synthesis of inhibitors of AmpC Î²-lactamase. Chemistry and Biology, 2001, 8, 593-610.	6.0	45
9	Targeting Class A and C Serine Î²-Lactamases with a Broad-Spectrum Boronic Acid Derivative. Journal of Medicinal Chemistry, 2014, 57, 5449-5458.	6.4	45
10	Optimizing Cell Permeation of an Antibiotic Resistance Inhibitor for Improved Efficacy. Journal of Medicinal Chemistry, 2007, 50, 5644-5654.	6.4	41
11	Structural study of phenyl boronic acid derivatives as AmpC Î²-lactamase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3416-3419.	2.2	38
12	Structure-Based Virtual Screening for the Discovery of Novel Inhibitors of New Delhi Metallo-Î²-lactamase-1. ACS Medicinal Chemistry Letters, 2018, 9, 45-50.	2.8	38
13	Computational and biological profile of boronic acids for the detection of bacterial serine- and metallo-Î²-lactamases. Scientific Reports, 2017, 7, 17716.	3.3	35
14	Structure-based studies on species-specific inhibition of thymidylate synthase. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2002, 1587, 206-214.	3.8	34
15	SOS response in bacteria: Inhibitory activity of lichen secondary metabolites against Escherichia coli RecA protein. Phytomedicine, 2017, 29, 11-18.	5.3	34
16	X-ray Crystallography Deciphers the Activity of Broad-Spectrum Boronic Acid Î²-Lactamase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 650-655.	2.8	30
17	Predicting and harnessing protein flexibility in the design of species-specific inhibitors of thymidylate synthase1,21Escherichia coli thymidylate synthase numbering is used unless otherwise noted.2PDB coordinates have been deposited with the RCSB with accession ID: 1JG0.. Chemistry and Biology, 2001, 8, 981-995.	6.0	28
18	Decoding the Structural Basis For Carbapenem Hydrolysis By Class A Î²-lactamases: Fishing For A Pharmacophore. Current Drug Targets, 2016, 17, 983-1005.	2.1	27

#	Article	IF	Citations
19	Virtual screening identifies broad-spectrum Î²-lactamase inhibitors with activity on clinically relevant serine- and metallo-carbapenemases. Scientific Reports, 2020, 10, 12763.	3.3	25
20	Phenylboronic Acid Derivatives as Validated Leads Active in Clinical Strains Overexpressing KPCâ€2: A Step against Bacterial Resistance. ChemMedChem, 2018, 13, 713-724.	3.2	24
21	Phthalein Derivatives as a New Tool for Selectivity in Thymidylate Synthase Inhibition. Journal of Medicinal Chemistry, 1999, 42, 2112-2124.	6.4	23
22	The Inhibition of Extended Spectrum β-Lactamases: Hits and Leads. Current Medicinal Chemistry, 2014, 21, 1405-1434.	2.4	23
23	Improving Specificity vs Bacterial Thymidylate Synthases throughN-Dansyl Modulation of Didansyltyrosine. Journal of Medicinal Chemistry, 2005, 48, 913-916.	6.4	16
24	Inhibition of the transcriptional repressor LexA: Withstanding drug resistance by inhibiting the bacterial mechanisms of adaptation to antimicrobials. Life Sciences, 2020, 241, 117116.	4.3	16
25	Conformational analysis of phthalein derivatives acting as thymidylate synthase inhibitors by means of 1H NMR and quantum chemical calculations. Bioorganic and Medicinal Chemistry, 1996, 4, 1783-1794.	3.0	14
26	An Improved Synthesis of CENTA, a Chromogenic Substrate for Î²-Lactamases. Synlett, 2016, 27, 2447-2450.	1.8	13
27	4-Amino-1,2,4-triazole-3-thione as a Promising Scaffold for the Inhibition of Serine and Metallo-Î²-Lactamases. Pharmaceuticals, 2020, 13, 52.	3.8	13
28	Design, synthesis and biological evaluation of non-covalent AmpC Î²-lactamases inhibitors. Medicinal Chemistry Research, 2017, 26, 975-986.	2.4	11
29	Separation, structural determination and biological evaluation of the thymidylate synthase inhibitor 3,3â€Diâ€(4â€²â€hydroxyphenyl)â€6(7)â€chloroâ€1â€oxoâ€1H,3Hâ€naphtho[1,8â€cd]pyran. Journal of Heterocyclic Chemistry, 1999, 36, 1043-1048.	2.1	9
30	In silico identification and experimental validation of hits active against KPC-2 Î²-lactamase. PLoS ONE, 2018, 13, e0203241.	2.5	9
31	Phenylboronic Acids Probing Molecular Recognition against Class A and Class C Î²-lactamases. Antibiotics, 2019, 8, 171.	3.7	9
32	First virtual screening and experimental validation of inhibitors targeting GES-5 carbapenemase. Journal of Computer-Aided Molecular Design, 2019, 33, 295-305.	2.9	9
33	Naphthalimido derivatives as antifolate thymidylate synthase inhibitors. European Journal of Medicinal Chemistry, 1996, 31, 1011-1016.	5.5	8
34	ortho-Halogen naphthaleins as specific inhibitors of Lactobacillus casei thymidylate synthase. Conformational properties and biological activity. Bioorganic and Medicinal Chemistry, 2003, 11, 951-963.	3.0	8
35	Conformational Propensity and Biological Studies of Proline Mutated LR Peptides Inhibiting Human Thymidylate Synthase and Ovarian Cancer Cell Growth. Journal of Medicinal Chemistry, 2018, 61, 7374-7380.	6.4	6
36	Can We Exploit Î²-Lactamases Intrinsic Dynamics for Designing More Effective Inhibitors?. Antibiotics, 2020, 9, 833.	3.7	6

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37	Novel Targets and Mechanisms in Antimicrobial Drug Discovery. Antibiotics, 2021, 10, 141.	3.7	5
38	Constrained Dansyl Derivatives Reveal Bacterial Specificity of Highly Conserved Thymidylate Synthases. ChemBioChem, 2008, 9, 779-790.	2.6	4
39	A step further in the discovery of phthalein derivatives as Thymidylate Synthase inhibitors. Arkivoc, 2004, 2004, 382-396.	0.5	4
40	Protocetraric and Salazinic Acids as Potential Inhibitors of SARS-CoV-2 3CL Protease: Biochemical, Cytotoxic, and Computational Characterization of Depsidones as Slow-Binding Inactivators. Pharmaceuticals, 2022, 15, 714.	3.8	2
41	Targeting the Class A Carbapenemase GES-5 via Virtual Screening. Biomolecules, 2020, 10, 304.	4.0	1
42	Crystallographic studies of novel inhibitors of Î²-lactamases. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c248-c248.	0.3	0