Stanislav Gobec

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7026682/stanislav-gobec-publications-by-year.pdf
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

237 papers	5,404 citations	39 h-index	59 g-index
257 ext. papers	6,385 ext. citations	4.8 avg, IF	5.59 L-index

#	Paper	IF	Citations
237	Evaluation of novel cathepsin-X inhibitors in vitro and in vivo and their ability to improve cathepsin-B-directed antitumor therapy.. *Cellular and Molecular Life Sciences*, **2022**, 79, 34	10.3	1
236	ProBiS-Dock: A Hybrid Multitemplate Homology Flexible Docking Algorithm Enabled by Protein Binding Site Comparison.. *Journal of Chemical Information and Modeling*, **2022**,	6.1	1
235	From tryptophan-based amides to tertiary amines: Optimization of a butyrylcholinesterase inhibitor series.. *European Journal of Medicinal Chemistry*, **2022**, 234, 114248	6.8	0
234	A Set of Experimentally Validated Decoys for the Human CC Chemokine Receptor 7 (CCR7) Obtained by Virtual Screening.. *Frontiers in Pharmacology*, **2022**, 13, 855653	5.6	0
233	Nitroxoline and its derivatives are potent inhibitors of metallo-β-lactamases. *European Journal of Medicinal Chemistry*, **2021**, 113975	6.8	1
232	Indoles and 1-(3-(benzyloxy)benzyl)piperazines: Reversible and selective monoamine oxidase B inhibitors identified by screening an in-house compound library.. *Bioorganic Chemistry*, **2021**, 119, 105581	5.1	0
231	Multitarget 2'-hydroxychalcones as potential drugs for the treatment of neurodegenerative disorders and their comorbidities. *Neuropharmacology*, **2021**, 201, 108837	5.5	1
230	Novel Selective IDO1 Inhibitors with Isoxazolo[5,4-]pyrimidin-4(5)-one Scaffold. *Pharmaceuticals*, **2021**, 14,	5.2	1
229	2-Hydroxy-4,5-dimethyl-4-dimethylaminochalcone, a novel fluorescent flavonoid with capacity to detect aluminium in cells and modulate Alzheimer's disease targets. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 409, 113137	4.7	4
228	Nep1-like proteins as a target for plant pathogen control. *PLoS Pathogens*, **2021**, 17, e1009477	7.6	2
227	Mur ligases inhibitors with azastilbene scaffold: Expanding the structure-activity relationship. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 40, 127966	2.9	1
226	Discovery of multifunctional anti-Alzheimer's agents with a unique mechanism of action including inhibition of the enzyme butyrylcholinesterase and γ-aminobutyric acid transporters. *European Journal of Medicinal Chemistry*, **2021**, 218, 113397	6.8	4
225	Discovery of selective fragment-sized immunoproteasome inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 219, 113455	6.8	2
224	Pyrimido[1,2-b]indazole derivatives: Selective inhibitors of human monoamine oxidase B with neuroprotective activity. *European Journal of Medicinal Chemistry*, **2021**, 209, 112911	6.8	10
223	Assessment of Tractable Cysteines for Covalent Targeting by Screening Covalent Fragments. *ChemBioChem*, **2021**, 22, 743-753	3.8	10
222	Indoleamine and tryptophan 2,3-dioxygenases as important future therapeutic targets. *Pharmacology & Therapeutics*, **2021**, 221, 107746	13.9	7
221	Monocyclic beta-lactams for therapeutic uses: a patent overview (2010-2020). *Expert Opinion on Therapeutic Patents*, **2021**, 31, 247-266	6.8	4

220	Longitudinal evaluation of a novel BChE PET tracer as an early biomarker in the brain of a mouse model for Alzheimer disease. *Theranostics*, **2021**, 11, 6542-6559	12.1	4
219	Synthesis and Initial Characterization of a Reversible, Selective F-Labeled Radiotracer for Human Butyrylcholinesterase. *Molecular Imaging and Biology*, **2021**, 23, 505-515	3.8	0
218	4-Phenethyl-1-Propargylpiperidine-Derived Dual Inhibitors of Butyrylcholinesterase and Monoamine Oxidase B. *Molecules*, **2021**, 26,	4.8	1
217	Treatment of canine cognitive dysfunction with novel butyrylcholinesterase inhibitor. *Scientific Reports*, **2021**, 11, 18098	4.9	1
216	Discovery of 1-(phenylsulfonyl)-1H-indole-based multifunctional ligands targeting cholinesterases and 5-HT receptor with anti-aggregation properties against amyloid-beta and tau. *European Journal of Medicinal Chemistry*, **2021**, 225, 113783	6.8	3
215	Further hit optimization of 6-(trifluoromethyl)pyrimidin-2-amine based TLR8 modulators: Synthesis, biological evaluation and structure-activity relationships. *European Journal of Medicinal Chemistry*, **2021**, 225, 113809	6.8	0
214	Development and crystallography-aided SAR studies of multifunctional BuChE inhibitors and 5-HTR antagonists with β-amyloid anti-aggregation properties. *European Journal of Medicinal Chemistry*, **2021**, 225, 113792	6.8	3
213	WIDOCK: a reactive docking protocol for virtual screening of covalent inhibitors. *Journal of Computer-Aided Molecular Design*, **2021**, 35, 223-244	4.2	5
212	Catalytic Approach to Diverse β-Aminoboronic Acid Derivatives by Iridium-Catalyzed Hydrogenation of Trifluoroborate-Iminiums. *Advanced Synthesis and Catalysis*, **2021**, 363, 2396-2402	5.6	1
211	Structure-activity relationships of triazole-benzodioxine inhibitors of cathepsin X. *European Journal of Medicinal Chemistry*, **2020**, 193, 112218	6.8	3
210	Psoralen Derivatives as Inhibitors of Proteasome. *Molecules*, **2020**, 25,	4.8	1
209	8-Hydroxyquinoline-based anti-Alzheimer multimodal agents. *Monatshefte Für Chemie*, **2020**, 151, 1111-1120	1.4	5
208	Efficient and Straightforward Syntheses of Two United States Pharmacopeia Sitagliptin Impurities: 3-Desamino-2,3-dehydrositagliptin and 3-Desamino-3,4-dehydrositagliptin. *ACS Omega*, **2020**, 5, 5356-5364	3.9	2
207	Synthesis and Penicillin-binding Protein Inhibitory Assessment of Dipeptidic 4-Phenyl-β-lactams from β-Amino Acid-derived Imines. *Chemistry - an Asian Journal*, **2020**, 15, 51-55	4.5	1
206	Development of potent reversible selective inhibitors of butyrylcholinesterase as fluorescent probes. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 498-505	5.6	5
205	Stereoselective Activity of 1-Propargyl-4-styrylpiperidine-like Analogues That Can Discriminate between Monoamine Oxidase Isoforms A and B. *Journal of Medicinal Chemistry*, **2020**, 63, 1361-1387	8.3	20
204	1-Benzylpyrrolidine-3-amine-based BuChE inhibitors with anti-aggregating, antioxidant and metal-chelating properties as multifunctional agents against Alzheimer's disease. *European Journal of Medicinal Chemistry*, **2020**, 187, 111916	6.8	18
203	Structure-activity relationship study of tryptophan-based butyrylcholinesterase inhibitors. *European Journal of Medicinal Chemistry*, **2020**, 208, 112766	6.8	5

202	Recent Advances in the Synthesis of Acylboranes and Their Widening Applicability. *ACS Omega*, **2020**, 5, 17868-17875	3.9	12
201	Synthesis of Novel Nitroxoline Analogs with Potent Cathepsin B Exopeptidase Inhibitory Activity. *ChemMedChem*, **2020**, 15, 2477-2490	3.7	2
200	N-alkylpiperidine carbamates as potential anti-Alzheimer's agents. *European Journal of Medicinal Chemistry*, **2020**, 197, 112282	6.8	15
199	Organoruthenated Nitroxoline Derivatives Impair Tumor Cell Invasion through Inhibition of Cathepsin B Activity. *Inorganic Chemistry*, **2019**, 58, 12334-12347	5.1	18
198	Kinetic mechanism of Enterococcus faeciumd-aspartate ligase. *Biochimie*, **2019**, 158, 217-223	4.6	1
197	Selective Toll-like receptor 7 agonists with novel chromeno[3,4-d]imidazol-4(1H)-one and 2-(trifluoromethyl)quinoline/ quinazoline-4-amine scaffolds. *European Journal of Medicinal Chemistry*, **2019**, 179, 109-122	6.8	9
196	Synthesis of aminoboronic acid derivatives: an update on recent advances. *Organic Chemistry Frontiers*, **2019**, 6, 2991-2998	5.2	27
195	Evaluation of the published kinase inhibitor set to identify multiple inhibitors of bacterial ATP-dependent mur ligases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 1010-1017	5.6	6
194	Efficient synthesis and preliminary biological evaluations of trifluoromethylated imidazo[1,2-a]pyrimidines and benzimidazo[1,2-a]pyrimidines. *New Journal of Chemistry*, **2019**, 43, 9961-9968	3.6	7
193	Structure-guided optimization of 4,6-substituted-1,3,5-triazin-2(1H)-ones as catalytic inhibitors of human DNA topoisomerase II *European Journal of Medicinal Chemistry*, **2019**, 175, 330-348	6.8	13
192	Tryptophan-derived butyrylcholinesterase inhibitors as promising leads against Alzheimer's disease. *Chemical Communications*, **2019**, 55, 3765-3768	5.8	33
191	Chalcone derivatives: synthesis, and evaluation of their anti-anxiety, anti-depression and analgesic effects. *Heliyon*, **2019**, 5, e01376	3.6	15
190	Application of the -Dibenzyl Protective Group in the Preparation of Lactam Pseudopeptides. *Molecules*, **2019**, 24,	4.8	1
189	Discovery of Immunoproteasome Inhibitors Using Large-Scale Covalent Virtual Screening. *Molecules*, **2019**, 24,	4.8	6
188	Synthesis and NMR spectroscopic assignment of chlorinated benzimidazole-2-thione derivatives. *Tetrahedron Letters*, **2019**, 60, 151078	2	2
187	Synthesis of Indoline-Based Benzhydroxamic Acids as Potential HDAC6 Inhibitors. *ChemistrySelect*, **2019**, 4, 12308-12312	1.8	1
186	Virtual screening approach and biochemical evaluation on MurB. *Chemical Data Collections*, **2019**, 24, 100276	2.1	2
185	Unsaturated 3-Amino-1-carboxymethyl-lactams as Bacterial PBP Inhibitors: Synthesis and Biochemical Assessment. *Chemistry - A European Journal*, **2019**, 25, 16128	4.8	4

184	Biological Evaluation of 8-Hydroxyquinolines as Multi-Target Directed Ligands for Treating Alzheimer's Disease. *Current Alzheimer Research*, **2019**, 16, 801-814	3	3
183	A focused structure-activity relationship study of psoralen-based immunoproteasome inhibitors. *MedChemComm*, **2019**, 10, 1958-1965	5	3
182	Methylation of selenocysteine catalysed by thiopurine S-methyltransferase. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 182-190	4	9
181	Reaching toward underexplored targets in antibacterial drug design. *Drug Development Research*, **2019**, 80, 6-10	5.1	14
180	Cathepsin B inhibitors: Further exploration of the nitroxoline core. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 1239-1247	2.9	14
179	Docking study with biological validation on bacterial enzyme MurD. *Chemical Data Collections*, **2018** , 13-14, 139-155	2.1	0
178	Novel Multitarget-Directed Ligands Aiming at Symptoms and Causes of Alzheimer's Disease. *ACS Chemical Neuroscience*, **2018**, 9, 1195-1214	5.7	32
177	Design, Synthesis, and Biological Evaluation of 1-Benzylamino-2-hydroxyalkyl Derivatives as New Potential Disease-Modifying Multifunctional Anti-Alzheimer's Agents. *ACS Chemical Neuroscience*, **2018**, 9, 1074-1094	5.7	37
176	In silico identification, synthesis and biological evaluation of novel tetrazole inhibitors of MurB. *Chemical Biology and Drug Design*, **2018**, 91, 1101-1112	2.9	9
175	Design, Synthesis, and Biological Evaluation of 2-(Benzylamino-2-Hydroxyalkyl)Isoindoline-1,3-Diones Derivatives as Potential Disease-Modifying Multifunctional Anti-Alzheimer Agents. *Molecules*, **2018**, 23,	4.8	19
174	Multi-target-directed ligands for treating Alzheimer's disease: Butyrylcholinesterase inhibitors displaying antioxidant and neuroprotective activities. *European Journal of Medicinal Chemistry*, **2018**, 156, 598-617	6.8	51
173	A patent review of immunoproteasome inhibitors. *Expert Opinion on Therapeutic Patents*, **2018**, 28, 517-548	6.8	13
172	In Silico Design and Enantioselective Synthesis of Functionalized Monocyclic 3-Amino-1-carboxymethyl-β-lactams as Inhibitors of Penicillin-Binding Proteins of Resistant Bacteria. *Chemistry - A European Journal*, **2018**, 24, 15254-15266	4.8	9
171	Anthranilic Acid Inhibitors of Undecaprenyl Pyrophosphate Synthase (UppS), an Essential Enzyme for Bacterial Cell Wall Biosynthesis. *Frontiers in Microbiology*, **2018**, 9, 3322	5.7	5
170	The Magic of Crystal Structure-Based Inhibitor Optimization: Development of a Butyrylcholinesterase Inhibitor with Picomolar Affinity and in Vivo Activity. *Journal of Medicinal Chemistry*, **2018**, 61, 119-139	8.3	70
169	Antibacterial and β-Lactamase Inhibitory Activity of Monocyclic β-Lactams. *Medicinal Research Reviews*, **2018**, 38, 426-503	14.4	49
168	Heterocyclic electrophiles as new MurA inhibitors. *Archiv Der Pharmazie*, **2018**, 351, e1800184	4.3	7
167	A road map for prioritizing warheads for cysteine targeting covalent inhibitors. *European Journal of Medicinal Chemistry*, **2018**, 160, 94-107	6.8	47

166	Discovery of new MurA inhibitors using induced-fit simulation and docking. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 944-949	2.9	14
165	Evaluation of US 2016/0115161 A1: isoindoline compounds and methods of their use. *Expert Opinion on Therapeutic Patents*, **2017**, 27, 637-641	6.8	3
164	Dual inhibitors of cholinesterases and monoamine oxidases for Alzheimer's disease. *Future Medicinal Chemistry*, **2017**, 9, 811-832	4.1	35
163	Synthesis and structure-activity relationship study of novel quinazolinone-based inhibitors of MurA. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 3529-3533	2.9	35
162	BoBER: web interface to the base of bioisosterically exchangeable replacements. *Journal of Cheminformatics*, **2017**, 9, 62	8.6	7
161	Identification and characterization of the novel reversible and selective cathepsin X inhibitors. *Scientific Reports*, **2017**, 7, 11459	4.9	10
160	Inhibition of D-Ala:D-Ala ligase through a phosphorylated form of the antibiotic D-cycloserine. *Nature Communications*, **2017**, 8, 1939	17.4	34
159	Identification of Conserved Water Sites in Protein Structures for Drug Design. *Journal of Chemical Information and Modeling*, **2017**, 57, 3094-3103	6.1	20
158	A new 'golden age' for the antitubercular target InhA. *Drug Discovery Today*, **2017**, 22, 492-502	8.8	29
157	Design, synthesis and biological evaluation of new phthalimide and saccharin derivatives with alicyclic amines targeting cholinesterases, beta-secretase and amyloid beta aggregation. *European Journal of Medicinal Chemistry*, **2017**, 125, 676-695	6.8	70
156	N-Propargylpiperidines with naphthalene-2-carboxamide or naphthalene-2-sulfonamide moieties: Potential multifunctional anti-Alzheimer's agents. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 633-645	3.4	43
155	Chlorocarbonylsulfenyl Chloride Cyclizations Towards Piperidin-3-yl-oxathiazol-2-ones as Potential Covalent Inhibitors of Threonine Proteases. *Acta Chimica Slovenica*, **2017**, 64, 771-781	1.9	2
154	Addition of 2-(ethylamino)acetonitrile group to nitroxoline results in significantly improved anti-tumor activity and. *Oncotarget*, **2017**, 8, 59136-59147	3.3	11
153	Novel multi-target-directed ligands for Alzheimer's disease: Combining cholinesterase inhibitors and 5-HT receptor antagonists. Design, synthesis and biological evaluation. *European Journal of Medicinal Chemistry*, **2016**, 124, 63-81	6.8	58
152	Clioquinol-ruthenium complex impairs tumour cell invasion by inhibiting cathepsin B activity. *Dalton Transactions*, **2016**, 45, 16913-16921	4.3	29
151	Synthesis and Biological Assessment of Racemic Benzochromenopyrimidinimines as Antioxidant, Cholinesterase, and Aβ-42 Aggregation Inhibitors for Alzheimer's Disease Therapy. *ChemMedChem*, **2016**, 11, 1318-27	3.7	18
150	Nonpeptidic Selective Inhibitors of the Chymotrypsin-Like (β5i) Subunit of the Immunoproteasome. *Angewandte Chemie - International Edition*, **2016**, 55, 5745-8	16.4	31
149	Synthesis and preliminary biological evaluations of (+)-isocampholenic acid-derived amides. *Molecular Diversity*, **2016**, 20, 667-76	3.1	3

148	New direct inhibitors of InhA with antimycobacterial activity based on a tetrahydropyran scaffold. *European Journal of Medicinal Chemistry*, **2016**, 112, 252-257	6.8	16
147	Unusual substrate specificity of the peptidoglycan MurE ligase from Erysipelothrix rhusiopathiae. *Biochimie*, **2016**, 121, 209-18	4.6	4
146	Inhibition of endopeptidase and exopeptidase activity of cathepsin B impairs extracellular matrix degradation and tumour invasion. *Biological Chemistry*, **2016**, 397, 165-74	4.5	19
145	Recent Advances in the Development of Undecaprenyl Pyrophosphate Synthase Inhibitors as Potential Antibacterials. *Current Medicinal Chemistry*, **2016**, 23, 464-82	4.3	8
144	Synthesis and Biological Evaluation of N-Aryl-N'-(5-(2-hydroxybenzoyl) pyrimidin-2-yl)guanidines as Toll-Like Receptor 4 Antagonists. *Medicinal Chemistry*, **2016**, 12, 742-750	1.8	2
143	Synthesis, Molecular Modelling and Biological Evaluation of Novel Heterodimeric, Multiple Ligands Targeting Cholinesterases and Amyloid Beta. *Molecules*, **2016**, 21, 410	4.8	23
142	Synthesis and Biological Evaluation of Benzochromenopyrimidinones as Cholinesterase Inhibitors and Potent Antioxidant, Non-Hepatotoxic Agents for Alzheimer's Disease. *Molecules*, **2016**, 21,	4.8	16
141	Crystallographic Study of Peptidoglycan Biosynthesis Enzyme MurD: Domain Movement Revisited. *PLoS ONE*, **2016**, 11, e0152075	3.7	11
140	Discovery of Mycobacterium tuberculosis InhA Inhibitors by Binding Sites Comparison and Ligands Prediction. *Journal of Medicinal Chemistry*, **2016**, 59, 11069-11078	8.3	21
139	Development of an in-vivo active reversible butyrylcholinesterase inhibitor. *Scientific Reports*, **2016**, 6, 39495	4.9	72
138	4,6-Substituted-1,3,5-triazin-2(1H)-ones as monocyclic catalytic inhibitors of human DNA topoisomerase II targeting the ATP binding site. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4218-4229	3.4	23
137	LiSiCA: A Software for Ligand-Based Virtual Screening and Its Application for the Discovery of Butyrylcholinesterase Inhibitors. *Journal of Chemical Information and Modeling*, **2015**, 55, 1521-8	6.1	46
136	Cobalt-Catalyzed Cross-Coupling of Grignards with Allylic and Vinylic Bromides: Use of Sarcosine as a Natural Ligand. *Journal of Organic Chemistry*, **2015**, 80, 7803-9	4.2	22
135	Structure-based development of nitroxoline derivatives as potential multifunctional anti-Alzheimer agents. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4442-4452	3.4	38
134	Benzoic acid derivatives with improved antifungal activity: Design, synthesis, structure-activity relationship (SAR) and CYP53 docking studies. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4264-4276	3.4	8
133	Furan-based benzene mono- and dicarboxylic acid derivatives as multiple inhibitors of the bacterial Mur ligases (MurC-MurF): experimental and computational characterization. *Journal of Computer-Aided Molecular Design*, **2015**, 29, 541-60	4.2	18
132	Synthesis of new N-benzylpiperidine derivatives as cholinesterase inhibitors with amyloid anti-aggregation properties and beneficial effects on memory in vivo. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2445-57	3.4	34
131	Molecular dynamics to enhance structure-based virtual screening on cathepsin B. *Journal of Computer-Aided Molecular Design*, **2015**, 29, 707-12	4.2	13

130	New antagonists of toll-like receptor 7 discovered through 3D ligand-based virtual screening. *Medicinal Chemistry Research*, **2015**, 24, 362-371	2.2	11
129	Structure-Activity Relationships of Novel Tryptamine-Based Inhibitors of Bacterial Transglycosylase. *Journal of Medicinal Chemistry*, **2015**, 58, 9712-21	8.3	17
128	Design, synthesis, and evaluation of new thiadiazole-based direct inhibitors of enoyl acyl carrier protein reductase (InhA) for the treatment of tuberculosis. *Journal of Medicinal Chemistry*, **2015**, 58, 613-24	8.3	48
127	Convenient syntheses of orthogonally protected aminocyclopentitols from aldopentoses. *Tetrahedron Letters*, **2015**, 56, 529-531	2	2
126	Multiple Ligands Targeting Cholinesterases and β-Amyloid: Synthesis, Biological Evaluation of Heterodimeric Compounds with Benzylamine Pharmacophore. *Archiv Der Pharmazie*, **2015**, 348, 556-63	4.3	11
125	D-Glucosamine in iron-catalysed cross-coupling reactions of Grignards with allylic and vinylic bromides: application to the synthesis of a key sitagliptin precursor. *Applied Organometallic Chemistry*, **2015**, 29, 528-535	3.1	15
124	Combined liquid chromatography-tandem mass spectrometry analysis of progesterone metabolites. *PLoS ONE*, **2015**, 10, e0117984	3.7	7
123	Isoindoline-1,3-dione derivatives targeting cholinesterases: design, synthesis and biological evaluation of potential anti-Alzheimer's agents. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 1629-37	3.4	37
122	Development of multifunctional, heterodimeric isoindoline-1,3-dione derivatives as cholinesterase and β-amyloid aggregation inhibitors with neuroprotective properties. *European Journal of Medicinal Chemistry*, **2015**, 92, 738-49	6.8	48
121	Nitroxoline impairs tumor progression in vitro and in vivo by regulating cathepsin B activity. *Oncotarget*, **2015**, 6, 19027-42	3.3	48
120	Straightforward synthesis of orthogonally protected piperidin-3-ylmethanamine and piperidin-4-ylmethanamine derivatives. *Tetrahedron Letters*, **2014**, 55, 2037-2039	2	12
119	Design, synthesis and evaluation of second generation MurF inhibitors based on a cyanothiophene scaffold. *European Journal of Medicinal Chemistry*, **2014**, 73, 83-96	6.8	20
118	Antifungal activity of cinnamic acid derivatives involves inhibition of benzoate 4-hydroxylase (CYP53). *Journal of Applied Microbiology*, **2014**, 116, 955-66	4.7	42
117	Inhibitor design strategy based on an enzyme structural flexibility: a case of bacterial MurD ligase. *Journal of Chemical Information and Modeling*, **2014**, 54, 1451-66	6.1	17
116	Structural characterization and biological evaluation of a clioquinol-ruthenium complex with copper-independent antileukaemic activity. *Dalton Transactions*, **2014**, 43, 9045-51	4.3	75
115	Discovery, biological evaluation, and crystal structure of a novel nanomolar selective butyrylcholinesterase inhibitor. *Journal of Medicinal Chemistry*, **2014**, 57, 8167-79	8.3	174
114	Endocrine disruptome--an open source prediction tool for assessing endocrine disruption potential through nuclear receptor binding. *Journal of Chemical Information and Modeling*, **2014**, 54, 1254-67	6.1	73
113	Exploring the aryl esterase catalysis of paraoxonase-1 through solvent kinetic isotope effects and phosphonate-based isosteric analogues of the tetrahedral reaction intermediate. *Biochimie*, **2014**, 106, 184-6	4.6	4

112	A Simple Synthesis of Polyfunctionalized 4-Aminopyrazolidin-3-ones as Aza-deoxa Analogs of D-Cycloserine. *Helvetica Chimica Acta*, **2014**, 97, 245-267	2	3
111	Benzene-1,3-dicarboxylic acid 2,5-dimethylpyrrole derivatives as multiple inhibitors of bacterial Mur ligases (MurC-MurF). *Bioorganic and Medicinal Chemistry*, **2014**, 22, 4124-34	3.4	27
110	Discovery of novel small-molecule compounds with selective cytotoxicity for Burkitt's lymphoma cells using 3D ligand-based virtual screening. *Molecules*, **2014**, 19, 19209-19	4.8	
109	Inhibitors of the peptidoglycan biosynthesis enzymes MurA-F. *Bioorganic Chemistry*, **2014**, 55, 2-15	5.1	47
108	Novel toll-like receptor 4 (TLR4) antagonists identified by structure- and ligand-based virtual screening. *European Journal of Medicinal Chemistry*, **2013**, 70, 393-9	6.8	28
107	2,3-Diarylpropenoic acids as selective non-steroidal inhibitors of type-5 17 hydroxysteroid dehydrogenase (AKR1C3). *European Journal of Medicinal Chemistry*, **2013**, 62, 89-97	6.8	8
106	New enzymatic assay for the AKR1C enzymes. *Chemico-Biological Interactions*, **2013**, 202, 204-9	5	3
105	Development of new cathepsin B inhibitors: combining bioisosteric replacements and structure-based design to explore the structure-activity relationships of nitroxoline derivatives. *Journal of Medicinal Chemistry*, **2013**, 56, 521-33	8.3	48
104	Melanin is crucial for growth of the black yeast Hortaea werneckii in its natural hypersaline environment. *Fungal Biology*, **2013**, 117, 368-79	2.8	39
103	Synthetic tripeptides as alternate substrates of murein peptide ligase (Mpl). *Biochimie*, **2013**, 95, 1120-6	4.6	7
102	Synthesis of pyrazolo[1,2-a]pyrazole-based peptide mimetics. *Tetrahedron*, **2013**, 69, 6648-6665	2.4	14
101	Structure-activity relationships of new cyanothiophene inhibitors of the essential peptidoglycan biosynthesis enzyme MurF. *European Journal of Medicinal Chemistry*, **2013**, 66, 32-45	6.8	53
100	Specificity determinants for lysine incorporation in Staphylococcus aureus peptidoglycan as revealed by the structure of a MurE enzyme ternary complex. *Journal of Biological Chemistry*, **2013**, 288, 33439-48	5.4	23
99	Crystallization and preliminary X-ray analysis of a UDP-MurNAc-tripeptide D-alanyl-D-alanine-adding enzyme (PaMurF) from Pseudomonas aeruginosa. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 503-5		1
98	MurD enzymes: some recent developments. *Biomolecular Concepts*, **2013**, 4, 539-56	3.7	23
97	Cinnamic acid derivatives induce cell cycle arrest in carcinoma cell lines. *Medicinal Chemistry*, **2013**, 9, 633-41	1.8	14
96	Biochemical characterization of MurF from Streptococcus pneumoniae and the identification of a new MurF inhibitor through ligand-based virtual screening. *Acta Chimica Slovenica*, **2013**, 60, 294-9	1.9	6
95	A microwave-assisted nucleophilic substitution reaction on a quinoline system: the synthesis of amino analogues of nitroxoline. *Tetrahedron Letters*, **2012**, 53, 1964-1967	2	10

94	Virtual screening for potential inhibitors of bacterial MurC and MurD ligases. *Journal of Molecular Modeling*, **2012**, 18, 1063-72	2	15
93	N-Benzoyl anthranilic acid derivatives as selective inhibitors of aldo-keto reductase AKR1C3. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 5948-51	2.9	14
92	Selective inhibitors of aldo-keto reductases AKR1C1 and AKR1C3 discovered by virtual screening of a fragment library. *Journal of Medicinal Chemistry*, **2012**, 55, 7417-24	8.3	16
91	Function of the D-alanine:D-alanine ligase lid loop: a molecular modeling and bioactivity study. *Journal of Medicinal Chemistry*, **2012**, 55, 6849-56	8.3	12
90	Expression of human aldo-keto reductase 1C2 in cell lines of peritoneal endometriosis: potential implications in metabolism of progesterone and dydrogesterone and inhibition by progestins. *Journal of Steroid Biochemistry and Molecular Biology*, **2012**, 130, 16-25	5.1	12
89	MurD enzymes from different bacteria: evaluation of inhibitors. *Biochemical Pharmacology*, **2012**, 84, 625-32	6	17
88	Virtual screening yields inhibitors of novel antifungal drug target, benzoate 4-monooxygenase. *Journal of Chemical Information and Modeling*, **2012**, 52, 3053-63	6.1	12
87	Dual Inhibitor of MurD and MurE Ligases from Escherichia coli and Staphylococcus aureus. *ACS Medicinal Chemistry Letters*, **2012**, 3, 626-30	4.3	35
86	Selective cytotoxicity of amidinopiperidine based compounds towards Burkitt's lymphoma cells involves proteasome inhibition. *PLoS ONE*, **2012**, 7, e41961	3.7	8
85	The binding mode of second-generation sulfonamide inhibitors of MurD: clues for rational design of potent MurD inhibitors. *PLoS ONE*, **2012**, 7, e52817	3.7	10
84	One-Pot Synthesis of β-Keto Esters and Preparation of 3-Ketopalmitoyl-CoA. *Synlett*, **2012**, 23, 1609-1612	2.2	1
83	6-Arylpyrido[2,3-d]pyrimidines as novel ATP-competitive inhibitors of bacterial D-alanine:D-alanine ligase. *PLoS ONE*, **2012**, 7, e39922	3.7	18
82	Exploration of the chemical space of novel naphthalene-sulfonamide and anthranilic Acid-based inhibitors of penicillin-binding proteins. *Acta Chimica Slovenica*, **2012**, 59, 280-388	1.9	5
81	Novel inhibitors of trihydroxynaphthalene reductase with antifungal activity identified by ligand-based and structure-based virtual screening. *Journal of Chemical Information and Modeling*, **2011**, 51, 1716-24	6.1	13
80	Design and synthesis of substrate mimetics based on an indole scaffold: potential inhibitors of 17β-HSD type 1. *Hormone Molecular Biology and Clinical Investigation*, **2011**, 6, 201-9	1.3	
79	Discovery of highly potent, nonsteroidal 17β-hydroxysteroid dehydrogenase type 1 inhibitors by virtual high-throughput screening. *Journal of Steroid Biochemistry and Molecular Biology*, **2011**, 127, 255-61	5.1	9
78	Synthesis and biological evaluation of (6- and 7-phenyl) coumarin derivatives as selective nonsteroidal inhibitors of 17β-hydroxysteroid dehydrogenase type 1. *Journal of Medicinal Chemistry*, **2011**, 54, 248-61	8.3	48
77	Redox-based inactivation of cysteine cathepsins by compounds containing the 4-aminophenol moiety. *PLoS ONE*, **2011**, 6, e27197	3.7	15

76	Novel 2-thioxothiazolidin-4-one inhibitors of bacterial MurD ligase targeting D-Glu- and diphosphate-binding sites. *European Journal of Medicinal Chemistry*, **2011**, 46, 3964-75	6.8	33
75	Discovery and kinetic evaluation of 6-substituted 4-benzylthio-1,3,5-triazin-2(1H)-ones as inhibitors of cathepsin B. *European Journal of Medicinal Chemistry*, **2011**, 46, 4648-56	6.8	15
74	New 5-benzylidenethiazolidin-4-one inhibitors of bacterial MurD ligase: design, synthesis, crystal structures, and biological evaluation. *European Journal of Medicinal Chemistry*, **2011**, 46, 5512-23	6.8	55
73	Small molecule inhibitors of peptidoglycan synthesis targeting the lipid II precursor. *Biochemical Pharmacology*, **2011**, 81, 1098-105	6	18
72	Development of screening assays and discovery of initial inhibitors of pneumococcal peptidoglycan deacetylase PgdA. *Biochemical Pharmacology*, **2011**, 82, 43-52	6	24
71	Ellipticines and 9-acridinylamines as inhibitors of D-alanine:D-alanine ligase. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 5137-46	3.4	19
70	Progestins as inhibitors of the human 20-ketosteroid reductases, AKR1C1 and AKR1C3. *Chemico-Biological Interactions*, **2011**, 191, 227-33	5	25
69	Biochemical and biological evaluation of novel potent coumarin inhibitor of 17□HSD type 1. *Chemico-Biological Interactions*, **2011**, 191, 60-5	5	11
68	Structure-based design of a new series of D-glutamic acid based inhibitors of bacterial UDP-N-acetylmuramoyl-L-alanine:D-glutamate ligase (MurD). *Journal of Medicinal Chemistry*, **2011**, 54, 4600-10	8.3	56
67	Novel mechanism of cathepsin B inhibition by antibiotic nitroxoline and related compounds. *ChemMedChem*, **2011**, 6, 1351-6	3.7	62
66	Structure guided development of potent reversibly binding penicillin binding protein inhibitors. *ACS Medicinal Chemistry Letters*, **2011**, 2, 219-23	4.3	24
65	Second-generation sulfonamide inhibitors of D-glutamic acid-adding enzyme: activity optimisation with conformationally rigid analogues of D-glutamic acid. *European Journal of Medicinal Chemistry*, **2011**, 46, 2880-94	6.8	47
64	Inhibitors of aldo-keto reductases AKR1C1-AKR1C4. *Current Medicinal Chemistry*, **2011**, 18, 2554-65	4.3	25
63	Cathepsin X cleavage of the beta2 integrin regulates talin-binding and LFA-1 affinity in T cells. *Journal of Leukocyte Biology*, **2011**, 90, 99-109	6.5	15
62	New noncovalent inhibitors of penicillin-binding proteins from penicillin-resistant bacteria. *PLoS ONE*, **2011**, 6, e19418	3.7	30
61	Design, Synthesis and in vitro Biochemical Activity of Novel Amino Acid Sulfonohydrazide Inhibitors of MurC. *Acta Chimica Slovenica*, **2011**, 58, 295-310	1.9	5
60	Effect of Free and in Poly(η-caprolactone) Nanoparticles Incorporated New Type 1 17β -Hydroxysteroid Dehydrogenase Inhibitors on Cancer Cells. *Current Nanoscience*, **2010**, 6, 69-76	1.4	5
59	False positives in the early stages of drug discovery. *Current Medicinal Chemistry*, **2010**, 17, 4231-55	4.3	74

58	The Synthesis of Novel 2,4,6-Trisubstituted 1,3,5-Triazines: A Search for Potential MurF Enzyme Inhibitors. *Heterocycles*, **2010**, 81, 91	0.8	10
57	(Z)-5-(4-Fluorophenyl)pent-4-enoic Acid: A Precursor for Convenient and Efficient Synthesis of the Antihypercholesterolemia Agent Ezetimibe. *Synthesis*, **2010**, 2010, 3433-3438	2.9	8
56	Discovery of novel 5-benzylidenerhodanine and 5-benzylidenethiazolidine-2,4-dione inhibitors of MurD ligase. *Journal of Medicinal Chemistry*, **2010**, 53, 6584-94	8.3	104
55	A Novel Scalable Synthesis of Pramipexole. *Organic Process Research and Development*, **2010**, 14, 1125-1129	3.9	13
54	5-Benzylidenethiazolidin-4-ones as multitarget inhibitors of bacterial Mur ligases. *ChemMedChem*, **2010**, 5, 286-95	3.7	63
53	Recent advances in the synthesis and applications of reduced amide pseudopeptides. *Current Medicinal Chemistry*, **2009**, 16, 2289-304	4.3	21
52	Novel inhibitors of beta-ketoacyl-ACP reductase from Escherichia coli. *Chemico-Biological Interactions*, **2009**, 178, 310-6	5	10
51	Derivatives of pyrimidine, phthalimide and anthranilic acid as inhibitors of human hydroxysteroid dehydrogenase AKR1C1. *Chemico-Biological Interactions*, **2009**, 178, 158-64	5	13
50	Trihydroxynaphthalene reductase of Curvularia lunata--a target for flavonoid action?. *Chemico-Biological Interactions*, **2009**, 178, 259-67	5	15
49	New cyclopentane derivatives as inhibitors of steroid metabolizing enzymes AKR1C1 and AKR1C3. *European Journal of Medicinal Chemistry*, **2009**, 44, 2563-71	6.8	21
48	Phosphorylated hydroxyethylamines as novel inhibitors of the bacterial cell wall biosynthesis enzymes MurC to MurF. *Bioorganic Chemistry*, **2009**, 37, 217-22	5.1	33
47	Synthesis and biological evaluation of new glutamic acid-based inhibitors of MurD ligase. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 153-7	2.9	40
46	Design and synthesis of new hydroxyethylamines as inhibitors of D-alanyl-D-lactate ligase (VanA) and D-alanyl-D-alanine ligase (DdlB). *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1376-9	2.9	37
45	Discovery of novel benzene 1,3-dicarboxylic acid inhibitors of bacterial MurD and MurE ligases by structure-based virtual screening approach. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2668-73	2.9	61
44	Discovery of new inhibitors of aldo-keto reductase 1C1 by structure-based virtual screening. *Molecular and Cellular Endocrinology*, **2009**, 301, 245-50	4.4	11
43	Flavonoids and cinnamic acid derivatives as inhibitors of 17beta-hydroxysteroid dehydrogenase type 1. *Molecular and Cellular Endocrinology*, **2009**, 301, 229-34	4.4	32
42	Discovery of new inhibitors of the bacterial peptidoglycan biosynthesis enzymes MurD and MurF by structure-based virtual screening. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 1884-9	3.4	46
41	Novel naphthalene-N-sulfonyl-D-glutamic acid derivatives as inhibitors of MurD, a key peptidoglycan biosynthesis enzyme. *Journal of Medicinal Chemistry*, **2008**, 51, 7486-94	8.3	75

40	Discovery of new inhibitors of D-alanine:D-alanine ligase by structure-based virtual screening. *Journal of Medicinal Chemistry*, **2008**, 51, 7442-8	8.3	35
39	Inhibitors of 17beta-hydroxysteroid dehydrogenase type 1. *Current Medicinal Chemistry*, **2008**, 15, 137-50	4.3	71
38	Design and synthesis of novel N-benzylidenesulfonohydrazide inhibitors of MurC and MurD as potential antibacterial agents. *Molecules*, **2008**, 13, 11-30	4.8	30
37	Synthesis and biological evaluation of N-acylhydrazones as inhibitors of MurC and MurD ligases. *ChemMedChem*, **2008**, 3, 1362-70	3.7	28
36	Towards the first inhibitors of trihydroxynaphthalene reductase from Curvularia lunata: synthesis of artificial substrate, homology modelling and initial screening. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 5881-9	3.4	9
35	Synthesis of 1-C-linked diphosphate analogues of UDP-N-Ac-glucosamine and UDP-N-Ac-muramic acid. *Tetrahedron*, **2008**, 64, 9093-9100	2.4	18
34	Cytoplasmic steps of peptidoglycan biosynthesis. *FEMS Microbiology Reviews*, **2008**, 32, 168-207	15.1	446
33	New inhibitors of fungal 17beta-hydroxysteroid dehydrogenase based on the [1,5]-benzodiazepine scaffold. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2007**, 22, 29-36	5.6	3
32	Phosphinate inhibitors of UDP-N-acetylmuramoyl-L-alanyl-D-glutamate: L-lysine ligase (MurE). *Archiv Der Pharmazie*, **2007**, 340, 127-34	4.3	27
31	Microwave-assisted synthesis of hydroxyethylamine dipeptide isosteres. *Tetrahedron*, **2007**, 63, 141-147	2.4	11
30	Synthesis of ethyl 3-(hydroxyphenoxy)benzyl butylphosphonates as potential antigen 85C inhibitors. *Tetrahedron*, **2007**, 63, 10698-10708	2.4	13
29	Diazenedicarboxamides as inhibitors of D-alanine-D-alanine ligase (Ddl). *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 2047-54	2.9	33
28	Design, synthesis, biochemical evaluation and antimycobacterial action of phosphonate inhibitors of antigen 85C, a crucial enzyme involved in biosynthesis of the mycobacterial cell wall. *European Journal of Medicinal Chemistry*, **2007**, 42, 54-63	6.8	37
27	Biochemical characterization and physiological properties of Escherichia coli UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase. *Journal of Bacteriology*, **2007**, 189, 3987-95	3.5	37
26	Structural and functional characterization of enantiomeric glutamic acid derivatives as potential transition state analogue inhibitors of MurD ligase. *Journal of Molecular Biology*, **2007**, 370, 107-15	6.5	74
25	Inhibitors of cathepsin B. *Current Medicinal Chemistry*, **2006**, 13, 2309-27	4.3	89
24	New lipophilic phthalimido- and 3-phenoxybenzyl sulfonates: inhibition of antigen 85C mycolyltransferase activity and cytotoxicity. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2006**, 21, 391-7	5.6	15
23	Cinnamates and cinnamamides inhibit fungal 17beta-hydroxysteroid dehydrogenase. *Molecular and Cellular Endocrinology*, **2006**, 248, 239-41	4.4	17

22	Cinnamic acids as new inhibitors of 17beta-hydroxysteroid dehydrogenase type 5 (AKR1C3). *Molecular and Cellular Endocrinology*, **2006**, 248, 233-5	4.4	40
21	Phytoestrogens as inhibitors of the human progesterone metabolizing enzyme AKR1C1. *Molecular and Cellular Endocrinology*, **2006**, 259, 30-42	4.4	35
20	Design, synthesis and structure-activity relationships of new phosphinate inhibitors of MurD. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 343-8	2.9	51
19	Flavonoids and cinnamic acid esters as inhibitors of fungal 17beta-hydroxysteroid dehydrogenase: a synthesis, QSAR and modelling study. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 7404-18	3.4	33
18	A new approach towards peptidosulfonamides: synthesis of potential inhibitors of bacterial peptidoglycan biosynthesis enzymes MurD and MurE. *Tetrahedron*, **2006**, 62, 10980-10988	2.4	39
17	Epoxide opening with amino acids: improved synthesis of hydroxyethylamine dipeptide isosteres. *Tetrahedron Letters*, **2006**, 47, 1733-1735	2	14
16	Phytoestrogens as inhibitors of fungal 17beta-hydroxysteroid dehydrogenase. *Steroids*, **2005**, 70, 626-35	2.8	15
15	Phytoestrogens as inhibitors of fungal 17beta-hydroxysteroid dehydrogenase. *Steroids*, **2005**, 70, 694-703	2.8	15
14	Synthesis of N-phthalimido -aminoethanesulfonyl chlorides: the use of thionyl chloride for a simple and efficient synthesis of new peptidosulfonamide building blocks. *Tetrahedron Letters*, **2005**, 46, 4069-4072	2	27
13	Nonsteroidal anti-inflammatory drugs and their analogues as inhibitors of aldo-keto reductase AKR1C3: new lead compounds for the development of anticancer agents. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 5170-5	2.9	39
12	Recent advances in design, synthesis and biological activity of aminoalkylsulfonates and sulfonamidopeptides. *Current Medicinal Chemistry*, **2004**, 11, 3263-78	4.3	31
11	Modulation of cytokine production by some phthalimido-desmuramyl dipeptides and their cytotoxicity. *Il Farmaco*, **2004**, 59, 345-52		5
10	Cinnamic acid esters as potent inhibitors of fungal 17beta-hydroxysteroid dehydrogenase--a model enzyme of the short-chain dehydrogenase/reductase superfamily. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 3933-6	2.9	22
9	Quantitative Structure-Activity Relationships of Streptococcus pneumoniae MurD Transition State Analogue Inhibitors. *QSAR and Combinatorial Science*, **2004**, 23, 399-405		7
8	Phosphonate inhibitors of antigen 85C, a crucial enzyme involved in the biosynthesis of the Mycobacterium tuberculosis cell wall. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 3559-62	2.9	32
7	Synthesis of New Lipophilic Phosphonate and Phosphonamidate Analogues of N-Acetylmuramyl-L-alanyl-D-isoglutamine Related to LK 423. *Molecules*, **2002**, 7, 394-404	4.8	7
6	A general synthesis of ethyl 4-aminophenyl and ethyl 4-[amino(hydroxyimino)methyl]phenyl phosphonates. *Tetrahedron Letters*, **2002**, 43, 167-170	2	4
5	Modulation of tumour necrosis factor production with desmuramyldipeptide analogues. *Pflugers Archiv European Journal of Physiology*, **2000**, 440, R064-R066	4.6	6

4	SYNTHESIS OF PHOSPHONO PHTHALIMIDO-DESMURAMYLDIPEPTIDE ANALOGS. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2000**, 156, 125-133	1	8
3	Synthesis of New Phosphono Desmuramyldipeptide Analogs. *Phosphorus, Sulfur and Silicon and the Related Elements*, **1999**, 147, 97-97	1	
2	Synthesis of new phosphonamidate and phosphinamide desmuramyldipeptide analogs. *International Journal of Peptide Research and Therapeutics*, **1998**, 5, 109-114		2
1	Synthesis and activity of phosphono desmuramyldipeptide analogs. *International Journal of Peptide Research and Therapeutics*, **1995**, 2, 193-197		7