Peter Gmeiner

List of Publications by Citations

289 papers	9,068 citations	45 h-index	81 g-index
319 ext. papers	10,213 ext. citations	5.7 avg, IF	5.95 L-index

#	Paper	IF	Citations
289	Structure and function of an irreversible agonist-β(2) adrenoceptor complex. *Nature*, **2011**, 469, 236-40	50.4	664
288	Activation and allosteric modulation of a muscarinic acetylcholine receptor. *Nature*, **2013**, 504, 101-6	50.4	639
287	Structural insights into μ-opioid receptor activation. *Nature*, **2015**, 524, 315-21	50.4	558
286	Structure-based discovery of opioid analgesics with reduced side effects. *Nature*, **2016**, 537, 185-190	50.4	547
285	Interactive SAR studies: rational discovery of super-potent and highly selective dopamine D3 receptor antagonists and partial agonists. *Journal of Medicinal Chemistry*, **2002**, 45, 4594-7	8.3	166
284	Conjugated enynes as nonaromatic catechol bioisosteres: synthesis, binding experiments, and computational studies of novel dopamine receptor agonists recognizing preferentially the D(3) subtype. *Journal of Medicinal Chemistry*, **2000**, 43, 756-62	8.3	157
283	Click linker: efficient and high-yielding synthesis of a new family of SPOS resins by 1,3-dipolar cycloaddition. *Organic Letters*, **2003**, 5, 1753-5	6.2	156
282	Labeling and glycosylation of peptides using click chemistry: a general approach to (18)F-glycopeptides as effective imaging probes for positron emission tomography. *Angewandte Chemie - International Edition*, **2010**, 49, 976-9	16.4	103
281	Recent advances in the search for D3- and D4-selective drugs: probes, models and candidates. *Trends in Pharmacological Sciences*, **2011**, 32, 148-57	13.2	90
280	GPCR crystal structures: Medicinal chemistry in the pocket. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 3880-906	3.4	88
279	Rationally based efficacy tuning of selective dopamine d4 receptor ligands leading to the complete antagonist 2-[4-(4-chlorophenyl)piperazin-1-ylmethyl]pyrazolo[1,5-a]pyridine (FAUC 213). *Journal of Medicinal Chemistry*, **2001**, 44, 2691-4	8.3	88
278	An efficient and practical total synthesis of (+)-vincamine from L-aspartic acid. *Journal of Organic Chemistry*, **1990**, 55, 3068-3074	4.2	88
277	Class A G-protein-coupled receptor (GPCR) dimers and bivalent ligands. *Journal of Medicinal Chemistry*, **2013**, 56, 6542-59	8.3	87
276	Azaindole derivatives with high affinity for the dopamine D4 receptor: synthesis, ligand binding studies and comparison of molecular electrostatic potential maps. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 97-102	2.9	82
275	Dopamine D2, D3, and D4 selective phenylpiperazines as molecular probes to explore the origins of subtype specific receptor binding. *Journal of Medicinal Chemistry*, **2009**, 52, 4923-35	8.3	75
274	The structural evolution of dopamine D3 receptor ligands: structure-activity relationships and selected neuropharmacological aspects **2006**, 112, 281-333		74
273	Chirospecific synthesis of spirocyclic beta-lactams and their characterization as potent type II beta-turn inducing peptide mimetics. *Journal of Organic Chemistry*, **2006**, 71, 97-102	4.2	73

272	Covalent agonists for studying G protein-coupled receptor activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10744-8	11.5	69
271	1,1RDisubstituted ferrocenes as molecular hinges in mono- and bivalent dopamine receptor ligands. *Journal of Medicinal Chemistry*, **2009**, 52, 6860-70	8.3	69
270	Histidine 6.55 is a major determinant of ligand-biased signaling in dopamine D2L receptor. *Molecular Pharmacology*, **2011**, 79, 575-85	4.3	67
269	Tricyclic antidepressants, quinacrine and a novel, synthetic chimera thereof clear prions by destabilizing detergent-resistant membrane compartments. *Journal of Neurochemistry*, **2006**, 98, 748-59	6	67
268	Visualization and ligand-induced modulation of dopamine receptor dimerization at the single molecule level. *Scientific Reports*, **2016**, 6, 33233	4.9	66
267	Structure-guided development of heterodimer-selective GPCR ligands. *Nature Communications*, **2016**, 7, 12298	17.4	65
266	Fancy bioisosteres: metallocene-derived G-protein-coupled receptor ligands with subnanomolar binding affinity and novel selectivity profiles. *Journal of Medicinal Chemistry*, **2005**, 48, 3696-9	8.3	62
265	Bivalent dopamine D2 receptor ligands: synthesis and binding properties. *Journal of Medicinal Chemistry*, **2011**, 54, 4896-903	8.3	61
264	Dopamine D2 and D3 receptors in human putamen, caudate nucleus, and globus pallidus. *Synapse*, **2006**, 60, 205-11	2.4	61
263	Functionally selective dopamine D□D□receptor partial agonists. *Journal of Medicinal Chemistry*, **2014**, 57, 4861-75	8.3	60
262	3,4,6-Tri-O-acetyl-2-deoxy-2-[18F]fluoroglucopyranosyl phenylthiosulfonate: a thiol-reactive agent for the chemoselective 18F-glycosylation of peptides. *Bioconjugate Chemistry*, **2007**, 18, 254-62	6.3	58
261	A chimeric ligand approach leading to potent antiprion active acridine derivatives: design, synthesis, and biological investigations. *Journal of Medicinal Chemistry*, **2006**, 49, 6591-5	8.3	57
260	Parallel synthesis and biological screening of dopamine receptor ligands taking advantage of a click chemistry based BAL linker. *ACS Combinatorial Science*, **2005**, 7, 309-16		57
259	Cyanoindole derivatives as highly selective dopamine D(4) receptor partial agonists: solid-phase synthesis, binding assays, and functional experiments. *Journal of Medicinal Chemistry*, **2000**, 43, 4563-9	8.3	57
258	A highly practical RCM approach towards a molecular building kit of spirocyclic reverse turn mimics. *Chemistry - A European Journal*, **2006**, 12, 6315-22	4.8	52
257	Rational Molecular Design and EPC Synthesis of a Type VI beta-Turn Inducing Peptide Mimetic This work was supported by the BMBF and the Fonds der Chemischen Industrie. EPC=enantiomerically pure compound.. *Angewandte Chemie - International Edition*, **2001**, 40, 3361-3364	16.4	52
256	Proline derived spirobarbiturates as highly effective beta-turn mimetics incorporating polar and functionalizable constraint elements. *Journal of Organic Chemistry*, **2008**, 73, 3608-11	4.2	51
255	Highly potent 5-aminotetrahydropyrazolopyridines: enantioselective dopamine D3 receptor binding, functional selectivity, and analysis of receptor-ligand interactions. *Journal of Medicinal Chemistry*, **2011**, 54, 2477-91	8.3	50

254	Functionally selective dopamine D2/D3 receptor agonists comprising an enyne moiety. *Journal of Medicinal Chemistry*, **2013**, 56, 5130-41	8.3	49
253	Muscarinic receptors as model targets and antitargets for structure-based ligand discovery. *Molecular Pharmacology*, **2013**, 84, 528-40	4.3	49
252	Discovery of highly potent and neurotensin receptor 2 selective neurotensin mimetics. *Journal of Medicinal Chemistry*, **2011**, 54, 2915-23	8.3	49
251	Click chemistry on solid phase: parallel synthesis of N-benzyltriazole carboxamides as super-potent G-protein coupled receptor ligands. *ACS Combinatorial Science*, **2006**, 8, 252-61		49
250	A general approach to dehydro-Freidinger lactams: ex-chiral pool synthesis and spectroscopic evaluation as potential reverse turn inducers. *Journal of Organic Chemistry*, **2003**, 68, 62-9	4.2	49
249	2-[(4-phenylpiperazin-1-yl)methyl]imidazo(di)azines as selective D4-ligands. Induction of penile erection by 2-[4-(2-methoxyphenyl)piperazin-1-ylmethyl]imidazo[1,2-a]pyridine (PIP3EA), a potent and selective D4 partial agonist. *Journal of Medicinal Chemistry*, **2006**, 49, 3938-47	8.3	47
248	Click chemistry on solid support: synthesis of a new REM resin and application for the preparation of tertiary amines. *Tetrahedron*, **2004**, 60, 8699-8702	2.4	47
247	Structure-selectivity investigations of D2-like receptor ligands by CoMFA and CoMSIA guiding the discovery of D3 selective PET radioligands. *Journal of Medicinal Chemistry*, **2007**, 50, 489-500	8.3	46
246	Enantiomerically Pure Amino Alcohols and Diamino Alcohols from L-Aspartic Acid. Application to the Synthesis of Epi- and Diepislaframine. *Journal of Organic Chemistry*, **1994**, 59, 6766-6776	4.2	46
245	Covalent molecular probes for class A G protein-coupled receptors: advances and applications. *ACS Chemical Biology*, **2015**, 10, 1376-86	4.9	45
244	Fused azaindole derivatives: molecular design, synthesis and in vitro pharmacology leading to the preferential dopamine D3 receptor agonist FAUC 725. *Bioorganic and Medicinal Chemistry Letters*, **2002**, 12, 2377-80	2.9	44
243	Treatment of N,N-dibenzylamino alcohols with sulfonyl chloride leads to rearranged beta-chloro amines, precursors to beta-amino acids, and not to tetrahydroisoquinolines. *Organic Letters*, **2000**, 2, 647-9	6.2	42
242	Modeling the similarity and divergence of dopamine D2-like receptors and identification of validated ligand-receptor complexes. *Journal of Medicinal Chemistry*, **2005**, 48, 694-709	8.3	41
241	Triazolopeptides: chirospecific synthesis and cis/trans prolyl ratios of structural isomers. *Tetrahedron*, **2006**, 62, 8919-8927	2.4	41
240	Structure-based design of Tet repressor to optimize a new inducer specificity. *Biochemistry*, **2004**, 43, 9512-8	3.2	41
239	Comparative molecular field analysis of dopamine D4 receptor antagonists including 3-[4-(4-chlorophenyl)piperazin-1-ylmethyl]pyrazolo[1,5-a]pyridine (FAUC 113), 3-[4-(4-chlorophenyl)piperazin-1-ylmethyl]-1H-pyrrolo-[2,3-b]pyridine (L-745,870), and clozapine. *Journal of Medicinal Chemistry*, **2001**, 44, 1151-7	8.3	41
238	General synthesis of enantiomerically pure β-amino acids. *Tetrahedron Letters*, **1990**, 31, 5717-5720	2	40
237	Evaluation of lactam-bridged neurotensin analogues adjusting psi(Pro10) close to the experimentally derived bioactive conformation of NT(8-13). *Journal of Medicinal Chemistry*, **2004**, 47, 5587-90	8.3	39

236	Structure-guided development of selective M3 muscarinic acetylcholine receptor antagonists. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12046-12050	11.5	39
235	Discovery of G Protein-Biased Dopaminergics with a Pyrazolo[1,5-a]pyridine Substructure. *Journal of Medicinal Chemistry*, **2017**, 60, 2908-2929	8.3	38
234	Pharmacophore-guided drug discovery investigations leading to bioactive 5-aminotetrahydropyrazolopyridines. Implications for the binding mode of heterocyclic dopamine D3 receptor agonists. *Journal of Medicinal Chemistry*, **2005**, 48, 5771-9	8.3	38
233	PIP3EA and PD-168077, two selective dopamine D4 receptor agonists, induce penile erection in male rats: site and mechanism of action in the brain. *European Journal of Neuroscience*, **2006**, 24, 2021-30	3.5	38
232	Enantiopure 4- and 5-aminopiperidin-2-ones: regiocontrolled synthesis and conformational characterization as bioactive beta-turn mimetics. *Journal of Organic Chemistry*, **2000**, 65, 7406-16	4.2	38
231	The broad-spectrum antiinfective drug artesunate interferes with the canonical nuclear factor kappa B (NF-B) pathway by targeting RelA/p65. *Antiviral Research*, **2015**, 124, 101-9	10.8	37
230	Synthesis, radiofluorination, and in vitro evaluation of pyrazolo[1,5-a]pyridine-based dopamine D4 receptor ligands: discovery of an inverse agonist radioligand for PET. *Journal of Medicinal Chemistry* , **2008**, 51, 1800-10	8.3	37
229	Cross-receptor interactions between dopamine D2L and neurotensin NTS1 receptors modulate binding affinities of dopaminergics. *ACS Chemical Neuroscience*, **2011**, 2, 308-16	5.7	36
228	Synthesis and biological investigations of dopaminergic partial agonists preferentially recognizing the D4 receptor subtype. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 2955-9	2.9	36
227	Certain 1,4-disubstituted aromatic piperidines and piperazines with extreme selectivity for the dopamine D4 receptor interact with a common receptor microdomain. *Molecular Pharmacology*, **2004**, 66, 1491-9	4.3	36
226	Molecular determinants of biased agonism at the dopamine D receptor. *Journal of Medicinal Chemistry*, **2015**, 58, 2703-17	8.3	35
225	Dopamine D3 receptor ligands: recent advances in the control of subtype selectivity and intrinsic activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 871-87	3.8	35
224	Synthesis and radioiodination of selective ligands for the dopamine D3 receptor subtype. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 3963-6	2.9	35
223	Indoloparacyclophanes: Synthesis and Dopamine Receptor Binding of a Novel Arylbioisostere This work was supported by the Fonds der Chemischen Industrie.. *Angewandte Chemie - International Edition*, **2001**, 40, 1283-1285	16.4	34
222	Novel insights into GPCR-peptide interactions: mutations in extracellular loop 1, ligand backbone methylations and molecular modeling of neurotensin receptor 1. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 9359-68	3.4	33
221	Synthesis and evaluation of 18F-labeled dopamine D3 receptor ligands as potential PET imaging agents. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 4819-23	2.9	33
220	Piperidinylpyrroles: design, synthesis and binding properties of novel and selective dopamine D4 receptor ligands. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 3143-6	2.9	33
219	Active-state models of ternary GPCR complexes: determinants of selective receptor-G-protein coupling. *PLoS ONE*, **2013**, 8, e67244	3.7	33

218	Phenyloxazoles and phenylthiazoles as benzamide bioisosteres: synthesis and dopamine receptor binding profiles. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 2041-4	2.9	32
217	Conformational Complexity and Dynamics in a Muscarinic Receptor Revealed by NMR Spectroscopy. *Molecular Cell*, **2019**, 75, 53-65.e7	17.6	31
216	Synthesis and evaluation of a (18)F-labeled diarylpyrazole glycoconjugate for the imaging of NTS1-positive tumors. *Journal of Medicinal Chemistry*, **2013**, 56, 9361-5	8.3	31
215	A gene regulation system with four distinct expression levels. *Journal of Gene Medicine*, **2006**, 8, 1037-47	3.5	31
214	FAUC 213, a highly selective dopamine D4 receptor full antagonist, exhibits atypical antipsychotic properties in behavioural and neurochemical models of schizophrenia. *Psychopharmacology*, **2004**, 175, 7-17	4.7	31
213	A Practical Ex-Chiral-Pool Synthesis of □Proline and Homo-□Proline. *Synthesis*, **1998**, 1998, 1491-1496	2.9	31
212	Novel D3 selective dopaminergics incorporating enyne units as nonaromatic catechol bioisosteres: synthesis, bioactivity, and mutagenesis studies. *Journal of Medicinal Chemistry*, **2008**, 51, 6829-38	8.3	30
211	Peptide backbone modifications on the C-terminal hexapeptide of neurotensin. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 2013-8	2.9	30
210	Fast and efficient (18) F-labeling by [(18) f]fluorophenylazocarboxylic esters. *Chemistry - A European Journal*, **2014**, 20, 370-5	4.8	29
209	Development of a bivalent dopamine D□receptor agonist. *Journal of Medicinal Chemistry*, **2011**, 54, 7911-8	8.3	29
208	Dopamine D2-like receptor agonists induce penile erection in male rats: differential role of D2, D3 and D4 receptors in the paraventricular nucleus of the hypothalamus. *Behavioural Brain Research*, **2011**, 225, 169-76	3.4	29
207	Molecular dynamics simulations of the effect of the G-protein and diffusible ligands on the □-adrenergic receptor. *Journal of Molecular Biology*, **2011**, 414, 611-23	6.5	29
206	Molecular building kit of fused-proline-derived peptide mimetics allowing specific adjustment of the dihedral Psi angle. *Journal of Organic Chemistry*, **2007**, 72, 9102-13	4.2	29
205	Di- and trisubstituted pyrazolo[1,5-a]pyridine derivatives: synthesis, dopamine receptor binding and ligand efficacy. *Bioorganic and Medicinal Chemistry Letters*, **2002**, 12, 633-6	2.9	29
204	Development of a metabolically stable neurotensin receptor 2 (NTS2) ligand. *ChemMedChem*, **2013**, 8, 75-81	3.7	28
203	CoMFA and CoMSIA investigations revealing novel insights into the binding modes of dopamine D3 receptor agonists. *Journal of Medicinal Chemistry*, **2005**, 48, 2493-508	8.3	28
202	Structure-Guided Screening for Functionally Selective D Dopamine Receptor Ligands from a Virtual Chemical Library. *ACS Chemical Biology*, **2017**, 12, 2652-2661	4.9	27
201	In vitro affinities of various halogenated benzamide derivatives as potential radioligands for non-invasive quantification of D(2)-like dopamine receptors. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 6819-29	3.4	27

200	Bicyclic melatonin receptor agonists containing a ring-junction nitrogen: Synthesis, biological evaluation, and molecular modeling of the putative bioactive conformation. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 1949-58	3.4	27
199	Active-state model of a dopamine D2 receptor-G□complex stabilized by aripiprazole-type partial agonists. *PLoS ONE*, **2014**, 9, e100069	3.7	26
198	Evaluation of 18F-labeled benzodioxine piperazine-based dopamine D4 receptor ligands: lipophilicity as a determinate of nonspecific binding. *Journal of Medicinal Chemistry*, **2011**, 54, 8343-52	8.3	26
197	Analogs of the dopamine D4 receptor ligand FAUC 113 with planar- and central-chirality. *Tetrahedron: Asymmetry*, **2002**, 13, 2303-2310		26
196	Benzamide bioisosteres incorporating dihydroheteroazole substructures: EPC synthesis and SAR leading to a selective dopamine D4 receptor partial agonist (FAUC 179). *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 2533-6	2.9	26
195	Effective and Variable Functionalization of Pyrazolo[1,5-a]pyridines Involving Palladium-Catalyzed Coupling Reactions. *Synthesis*, **2000**, 2000, 1727-1732	2.9	26
194	(18)F- and (68)Ga-Labeled Neurotensin Peptides for PET Imaging of Neurotensin Receptor 1. *Journal of Medicinal Chemistry*, **2016**, 59, 6480-92	8.3	25
193	Radical arylation of tyrosine and its application in the synthesis of a highly selective neurotensin receptor 2 ligand. *Organic and Biomolecular Chemistry*, **2011**, 9, 3746-52	3.9	25
192	Functional characterization of a partial loss-of-function mutation of the epithelial sodium channel (ENaC) associated with atypical cystic fibrosis. *Cellular Physiology and Biochemistry*, **2010**, 25, 145-58	3.9	25
191	Fancy bioisosteres: novel paracyclophane derivatives as super-affinity dopamine D3 receptor antagonists. *Journal of Medicinal Chemistry*, **2006**, 49, 3628-35	8.3	25
190	Bivalent molecular probes for dopamine D2-like receptors. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 455-66	3.4	24
189	Novel azulene derivatives for the treatment of erectile dysfunction. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 7151-4	2.9	24
188	2,4-Disubstituted pyrroles: synthesis, traceless linking and pharmacological investigations leading to the dopamine D4 receptor partial agonist FAUC 356. *Bioorganic and Medicinal Chemistry Letters*, **2002**, 12, 1937-40	2.9	24
187	Fancy bioisosteres: synthesis and dopaminergic properties of the endiyne FAUC 88 as a novel non-aromatic D3 agonist. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 185-91	3.4	24
186	Photochromic Dopamine Receptor Ligands Based on Dithienylethenes and Fulgides. *Chemistry - A European Journal*, **2017**, 23, 13423-13434	4.8	23
185	On the terminal homologation of physiologically active peptides as a means of increasing stability in human serum--neurotensin, opiorphin, B27-KK10 epitope, NPY. *Chemistry and Biodiversity*, **2011**, 8, 711-39	2.5	23
184	The azulene framework as a novel arene bioisostere: design of potent dopamine D4 receptor ligands inducing penile erection. *ChemMedChem*, **2009**, 4, 325-8	3.7	23
183	18F-Labeled FAUC 346 and BP 897 derivatives as subtype-selective potential PET radioligands for the dopamine D3 receptor. *ChemMedChem*, **2008**, 3, 788-93	3.7	23

182	Enantiospecific synthesis and receptor binding of novel dopamine receptor ligands employing natural 4-hydroxyproline as a practical and flexible building block. *Tetrahedron: Asymmetry*, **2003**, 14, 3153-3172		23
181	Binding pathway determines norepinephrine selectivity for the human AR over AR. *Cell Research*, **2021**, 31, 569-579	24.7	23
180	Clozapine derived 2,3-dihydro-1H-1,4- and 1,5-benzodiazepines with D4 receptor selectivity: synthesis and biological testing. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 2625-37	3.4	22
179	Fancy bioisosteres: synthesis, SAR, and pharmacological investigations of novel nonaromatic dopamine D3 receptor ligands. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 4434-42	3.4	22
178	New and Efficient Synthesis of 5,6,7,8-Tetrahydroindolizidines. Application to the Synthesis of Pharmacologically Relevant Chiral Aminoderivatives from L-Asparagine. *Heterocycles*, **1990**, 31, 9	0.8	22
177	Subtype selective tetracycline agonists and their application for a two-stage regulatory system. *ChemBioChem*, **2006**, 7, 1320-4	3.8	21
176	Identification of the Beer Component Hordenine as Food-Derived Dopamine D2 Receptor Agonist by Virtual Screening a 3D Compound Database. *Scientific Reports*, **2017**, 7, 44201	4.9	20
175	Activation of the drenoceptor by the sedative sympatholytic dexmedetomidine. *Nature Chemical Biology*, **2020**, 16, 507-512	11.7	20
174	Novel pyridylmethylamines as highly selective 5-HT(1A) superagonists. *Journal of Medicinal Chemistry*, **2010**, 53, 7167-79	8.3	20
173	Synthesis of a (68)ga-labeled peptoid-Peptide hybrid for imaging of neurotensin receptor expression in vivo. *ACS Medicinal Chemistry Letters*, **2010**, 1, 224-8	4.3	20
172	Discovery of a dopamine D4 selective PET ligand candidate taking advantage of a click chemistry based REM linker. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 983-8	2.9	20
171	Attenuation of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) neurotoxicity by the novel selective dopamine D3-receptor partial agonist FAUC 329 predominantly in the nucleus accumbens of mice. *Biochemical Pharmacology*, **2003**, 66, 1025-32	6	20
170	Dopaminergic 7-aminotetrahydroindolizines: ex-chiral pool synthesis and preferential D3 receptor binding. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 2863-6	2.9	20
169	Mimicking of Arginine by Functionalized N()-Carbamoylated Arginine As a New Broadly Applicable Approach to Labeled Bioactive Peptides: High Affinity Angiotensin, Neuropeptide Y, Neuropeptide FF, and Neurotensin Receptor Ligands As Examples. *Journal of Medicinal Chemistry*, **2016**, 59, 1925-45	8.3	19
168	Syntheses, receptor bindings, in vitro and in vivo stabilities and biodistributions of DOTA-neurotensin(8-13) derivatives containing amino acid residues - a lesson about the importance of animal experiments. *Chemistry and Biodiversity*, **2013**, 10, 2101-21	2.5	19
167	Engineering a GPCR-ligand pair that simulates the activation of D(2L) by Dopamine. *ACS Chemical Neuroscience*, **2010**, 1, 25-35	5.7	19
166	Beta-analogs of PLG (L-prolyl-L-leucyl-glycinamide): ex-chiral pool syntheses and dopamine D2 receptor modulating effects. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 2885-90	2.9	19
165	CoMFA and CoMSIA investigations of dopamine D3 receptor ligands leading to the prediction, synthesis, and evaluation of rigidized FAUC 365 analogues. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 5898-912	3.4	19

164	Practical ex-chiral-pool methodology for the synthesis of dopaminergic tetrahydroindoles. *Tetrahedron*, **2004**, 60, 1197-1204	2.4	19
163	2,2-Dicyanovinyl as a nonaromatic aryl bioisostere: synthesis, binding experiments and SAR studies of highly selective dopamine D4 receptor ligands. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 1969-72	2.9	19
162	Enantiomerically pure aminoindolizines: bicyclic ergoline analogues with dopamine autoreceptor activity. *Archiv Der Pharmazie*, **1992**, 325, 57-60	4.3	19
161	Hydroxy-Substituted Heteroarylpiperazines: Novel Scaffolds for Arrestin-Biased DR Agonists. *Journal of Medicinal Chemistry*, **2017**, 60, 4693-4713	8.3	18
160	Improved radiosynthesis and preliminary in vivo evaluation of a (18)F-labeled glycopeptide-peptoid hybrid for PET imaging of neurotensin receptor 2. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4026-33	3.4	18
159	Dual-Acting Cholinesterase-Human Cannabinoid Receptor 2 Ligands Show Pronounced Neuroprotection in Vitro and Overadditive and Disease-Modifying Neuroprotective Effects in Vivo. *Journal of Medicinal Chemistry*, **2019**, 62, 9078-9102	8.3	18
158	Argyreia nervosa (Burm. f.): receptor profiling of lysergic acid amide and other potential psychedelic LSD-like compounds by computational and binding assay approaches. *Journal of Ethnopharmacology*, **2013**, 148, 492-7	5	18
157	Markierung und Glycosylierung von Peptiden mithilfe der Klick-Chemie: ein allgemeiner Ansatz zur Synthese von 18F-Glycopeptiden, leistungsstarken Tracern f die Positronenemissionstomographie. *Angewandte Chemie*, **2010**, 122, 988-992	3.6	18
156	Click chemistry based solid phase supported synthesis of dopaminergic phenylacetylenes. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 7248-57	3.4	18
155	Phenylpiperazinylmethylindolecarboxylates and derivatives as selective D(4)-ligands. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 1671-9	3.4	18
154	Cyclic amidines as benzamide bioisosteres: EPC synthesis and SAR studies leading to the selective dopamine D4 receptor agonist FAUC 312. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 851-4	2.9	18
153	Structure-based development of a subtype-selective orexin 1 receptor antagonist. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18059-18067	11.5	18
152	Rational design of agonists for bitter taste receptor TAS2R14: from modeling to bench and back. *Cellular and Molecular Life Sciences*, **2020**, 77, 531-542	10.3	18
151	Dopamine agonist-induced penile erection and yawning: a comparative study in outbred Roman high- and low-avoidance rats. *Pharmacology Biochemistry and Behavior*, **2013**, 109, 59-66	3.9	17
150	Aromatic ring functionalization of benzolactam derivatives: new potent dopamine D3 receptor ligands. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 2670-4	2.9	17
149	Optimization of Click Chemistry Using Azide and Alkyne Scavenger Resins. *QSAR and Combinatorial Science*, **2007**, 26, 1145-1150		17
148	Ex-chiral pool synthesis and receptor binding studies of 4-substituted prolinol derivatives. *Tetrahedron: Asymmetry*, **2003**, 14, 3141-3152		17
147	Structure-Based Design and Discovery of New M Receptor Agonists. *Journal of Medicinal Chemistry*, **2017**, 60, 9239-9250	8.3	16

146	An allosteric modulator binds to a conformational hub in the adrenergic receptor. *Nature Chemical Biology*, **2020**, 16, 749-755	11.7	16
145	An efficient and practical EPC synthesis of amino acids from L-asparagine. *Archiv Der Pharmazie*, **2010**, 324, 551-557	4.3	16
144	Analogues of FAUC 73 revealing new insights into the structural requirements of nonaromatic dopamine D3 receptor agonists. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 113-7	3.4	16
143	Planar chiral indoles: synthesis and biological effects of the enantiomers. *Tetrahedron: Asymmetry*, **2001**, 12, 3205-3208		16
142	Diethoxymethyl Protected Pyrroles: Synthesis and Regioselective Transformations. *Synthesis*, **2001**, 2001, 2281-2288	2.9	16
141	Azepino- and diazepinoindoles: synthesis and dopamine receptor binding profiles. *Archiv Der Pharmazie*, **2000**, 333, 287-92	4.3	16
140	Enantio- and diastereocontrolled dopamine D1, D2, D3 and D4 receptor binding of N-(3-pyrrolidinylmethyl)benzamides synthesized from aspartic acid. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 841-6	2.9	16
139	2-Dibenzylaminobutane-1,4-diol: A versatile intermediate for a chirospecific amino acid synthesis. *Tetrahedron Letters*, **1995**, 36, 381-382	2	16
138	Synthesis of Amines and Amino Alcohols by Electrophilic Amination and Highly Stereoselective Reduction. *Liebigs Annalen Der Chemie*, **1992**, 1992, 273-278		16
137	Dopamine autoreceptor agonists: computational studies, synthesis and biological investigations. *Bioorganic and Medicinal Chemistry Letters*, **1993**, 3, 1477-1483	2.9	16
136	Radiolabeled Dibenzodiazepinone-Type Antagonists Give Evidence of Dualsteric Binding at the M Muscarinic Acetylcholine Receptor. *Journal of Medicinal Chemistry*, **2017**, 60, 3314-3334	8.3	15
135	Biotransformation of 21-O-acetyl-deoxycorticosterone by cell suspension cultures of Digitalis lanata (strain W.1.4). *Steroids*, **2012**, 77, 1373-80	2.8	15
134	Diethoxymethyl Protected Indoles: Synthesis and Regioselective Transformations. *Synthesis*, **1996**, 1996, 1196-1198	2.9	15
133	A consecutive Diels Alder approach toward a Tet repressor directed combinatorial library. *Tetrahedron*, **2006**, 62, 6899-6908	2.4	15
132	Short and Efficient Synthesis of Homo-Freidinger Lactams: An Olefin Metathesis Approach Towards Conformationally Restricted Amino Acid Analogues. *Synlett*, **2002**, 2002, 1014-1016	2.2	15
131	Synthesis of optically active disubstituted amino nitriles and amino acids starting from asparagine. *Liebigs Annalen*, **1995**, 1995, 1987-1992		15
130	Practical EPC synthesis of 1,2- and 1,3-amino alcohols. *Tetrahedron Letters*, **1993**, 34, 4325-4326	2	15
129	A new D dopamine receptor agonist allosterically modulates A(2A) adenosine receptor signalling by interacting with the A(2A)/D receptor heteromer. *Cellular Signalling*, **2012**, 24, 951-60	4.9	14

128	Impact of the proline residue on ligand binding of neurotensin receptor 2 (NTS2)-selective peptide-peptoid hybrids. *ChemMedChem*, **2013**, 8, 772-8	3.7	14
127	Design, synthesis and dopamine D4 receptor binding activities of new N-heteroaromatic 5/6-ring Mannich bases. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 4448-58	3.4	14
126	1,4-Disubstituted aromatic piperazines with high 5-HT2A/D2 selectivity: Quantitative structure-selectivity investigations, docking, synthesis and biological evaluation. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 6195-209	3.4	13
125	Development of Covalent Ligand-Receptor Pairs to Study the Binding Properties of Nonpeptidic Neurotensin Receptor 1 Antagonists. *ACS Chemical Biology*, **2016**, 11, 869-75	4.9	13
124	Theranostic Value of Multimers: Lessons Learned from Trimerization of Neurotensin Receptor Ligands and Other Targeting Vectors. *Pharmaceuticals*, **2017**, 10,	5.2	13
123	In vivo monitoring of the antiangiogenic effect of neurotensin receptor-mediated radiotherapy by small-animal positron emission tomography: a pilot study. *Pharmaceuticals*, **2014**, 7, 464-81	5.2	13
122	Biodistribution studies of two 18F-labeled pyridinylphenyl amides as subtype selective radioligands for the dopamine D3 receptor. *Nuclear Medicine and Biology*, **2014**, 41, 223-8	2.1	13
121	A series of 18F-labelled pyridinylphenyl amides as subtype-selective radioligands for the dopamine D3 receptor. *ChemMedChem*, **2010**, 5, 941-8	3.7	13
120	Synthesis, biological evaluation and radiolabelling by 18F-fluoroarylation of a dopamine D3-selective ligand as prospective imaging probe for PET. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6933-7	2.9	13
119	Characterization of the molecular fragment that is responsible for agonism of pergolide at serotonin 5-Hydroxytryptamine2B and 5-Hydroxytryptamine2A receptors. *Journal of Pharmacology and Experimental Therapeutics*, **2008**, 324, 1136-45	4.7	13
118	Regioselective Transformation of Malic Acid: A Practical Method for the Construction of Enantiomerically Pure Indolizidines. *Journal of Organic Chemistry*, **1995**, 60, 3910-3915	4.2	13
117	[F]Fluorophenylazocarboxylates: Design and Synthesis of Potential Radioligands for Dopamine D3 and Opioid Receptor. *ACS Omega*, **2017**, 2, 8649-8659	3.9	12
116	The therapeutically anti-prion active antibody-fragment scFv-W226: paramagnetic relaxation-enhanced NMR spectroscopy aided structure elucidation of the paratope-epitope interface. *Journal of Biomolecular Structure and Dynamics*, **2010**, 28, 13-22	3.6	12
115	Bioisosteric replacement leading to biologically active [2.2]paracyclophanes with altered binding profiles for aminergic G-protein-coupled receptors. *Journal of Medicinal Chemistry*, **2010**, 53, 7219-28	8.3	12
114	SCRF-DFT and NMR comparison of tetracycline and 5a,6-anhydrotetracycline in solution. *Journal of Physical Chemistry B*, **2006**, 110, 24766-74	3.4	12
113	Differential allosteric modulation within dopamine DR - neurotensin NTS1R and DR - serotonin 5-HTR receptor complexes gives bias to intracellular calcium signalling. *Scientific Reports*, **2019**, 9, 16312	4.9	11
112	Selective agonists for dopamine/neurotensin receptor heterodimers. *ChemMedChem*, **2012**, 7, 509-14	3.7	11
111	Click chemistry based synthesis of dopamine D4 selective receptor ligands for the selection of potential PET tracers. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 6079-82	2.9	11

110	H-CRRETAWAC-OH, a lead structure for the development of radiotracer targeting integrin 51?. *BioMed Research International*, **2014**, 2014, 243185	3	11
109	Novel triazolopeptides: chirospecific synthesis and conformational studies of proline derived analogs. *Tetrahedron*, **2009**, 65, 6156-6168	2.4	11
108	Syntheses and radiofluorination of two derivatives of 5-cyano-indole as selective ligands for the dopamine subtype-4 receptor. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2006**, 49, 55-70	1.9	11
107	Stereocontrolled dopamine receptor binding and subtype selectivity of clebopride analogues synthesized from aspartic acid. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 3293-6	2.9	11
106	Homo-Freidinger Lactams: Stereoselective Synthesis of 4-Aminopiperidin-2-one Derivatives from Aspartic Acid. *Synlett*, **1998**, 1998, 885-887	2.2	11
105	Chemo- and Regioselective Syntheses of Enantiopure Aminopyrrolidinones as Building Blocks for Constrained Peptidomimetics. *Heterocycles*, **1999**, 51, 1389	0.8	11
104	Efficient methodology for the preparation of -aminotetralin derivatives via electrophilic amination. *Tetrahedron Letters*, **1991**, 32, 5927-5930	2	11
103	Mast Cell Degranulation and Fibroblast Activation in the Morphine-induced Spinal Mass: Role of Mas-related G Protein-coupled Receptor Signaling. *Anesthesiology*, **2019**, 131, 132-147	4.3	11
102	Monitoring of the dopamine D2 receptor agonists hordenine and N-methyltyramine during the brewing process and in commercial beer samples. *Food Chemistry*, **2019**, 276, 745-753	8.5	11
101	Synthesis and evaluation of fluoro substituted pyridinylcarboxamides and their phenylazo analogues for potential dopamine D3 receptor PET imaging. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 5399-403	2.9	10
100	Synthesis and binding profile of haloperidol-based bivalent ligands targeting dopamine D(2)-like receptors. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 3753-6	2.9	10
99	Visualization of ligand-induced dopamine D and D receptor internalization by TIRF microscopy. *Scientific Reports*, **2017**, 7, 10894	4.9	10
98	A highly efficient type I -turn mimetic simulating an Asx-Pro-turn-like structure. *Organic Letters*, **2011**, 13, 3502-5	6.2	10
97	Parallel synthesis of potent dopaminergic N-phenyltriazole carboxamides applying a novel click chemistry based phenol linker. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 5482-7	3.4	10
96	Conformationally Restricted Peptide Mimetics by Ring-Closing Olefin Metathesis. *Synthesis*, **2012**, 44, 2682-2694	2.9	10
95	Asymmetric synthesis of -aminotetralins by electrophilic amination. *Tetrahedron*, **1994**, 50, 10909-10922	2.4	10
94	Structure-guided development of dual 2 adrenergic/dopamine D2 receptor agonists. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 2641-53	3.4	10
93	Synthesis of pyrazolylvinyl ketones from furan derivatives. *Organic and Biomolecular Chemistry*, **2019**, 17, 4850-4855	3.9	9

92	Pharmacological profile of 2-bromoterguride at human dopamine D2, porcine serotonin 5-hydroxytryptamine 2A, and 2C-adrenergic receptors, and its antipsychotic-like effects in rats. *Journal of Pharmacology and Experimental Therapeutics*, **2013**, 347, 57-68	4.7	9
91	Synthesis of Enantiopure 8-Aminomethylindolizines from Glutamine by Stereoelectronically Controlled Cationic Cyclization. *Heterocycles*, **2000**, 53, 1371	0.8	9
90	Diethoxymethyl: A Useful Nitrogen-Protecting Group for Lactams and Amides. *Synthesis*, **1995**, 1995, 168-170	2.9	9
89	Selective and Wash-Resistant Fluorescent Dihydrocodeinone Derivatives Allow Single-Molecule Imaging of Opioid Receptor Dimerization. *Angewandte Chemie - International Edition*, **2020**, 59, 5958-5964	16.4	9
88	Derivatization of common antidepressant drugs increases inhibition of acid sphingomyelinase and reduces induction of phospholipidosis. *Journal of Neural Transmission*, **2018**, 125, 1837-1845	4.3	9
87	Heterodimerization of Dibenzodiazepinone-Type Muscarinic Acetylcholine Receptor Ligands Leads to Increased MR Affinity and Selectivity. *ACS Omega*, **2017**, 2, 6741-6754	3.9	8
86	Conjugation of Short Peptides to Dibenzodiazepinone-Type Muscarinic Acetylcholine Receptor Ligands Determines MR Selectivity. *Journal of Medicinal Chemistry*, **2019**, 62, 5358-5369	8.3	8
85	Multicomponent Synthesis and Biological Evaluation of a Piperazine-Based Dopamine Receptor Ligand Library. *ACS Medicinal Chemistry Letters*, **2015**, 6, 882-7	4.3	8
84	Arrestin biased dopamine D2 receptor partial agonists: Synthesis and pharmacological evaluation. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 5613-5628	3.4	8
83	Structure-based evolution of subtype-selective neurotensin receptor ligands. *ChemistryOpen*, **2014**, 3, 206-18	2.3	8
82	Quinpramine ameliorates rat experimental autoimmune neuritis and redistributes MHC class II molecules. *PLoS ONE*, **2011**, 6, e21223	3.7	8
81	Quinpramine is a novel compound effective in ameliorating brain autoimmune disease. *Experimental Neurology*, **2009**, 215, 397-400	5.7	8
80	Rational Molecular Design and EPC Synthesis of a Type VI Turn Inducing Peptide Mimetic. *Angewandte Chemie*, **2001**, 113, 3465-3468	3.6	8
79	Regiocontrolled Annellation Reactions Starting from Diethoxymethyl Protected Indole. *Synthesis*, **2000**, 2000, 1081-1083	2.9	8
78	Synthesis and dopamine receptor binding of 3-phenylazepino[5,4,3-c,d]indole derivatives. *Archiv Der Pharmazie*, **1995**, 328, 329-32	4.3	8
77	Comparative MD Simulations Indicate a Dual Role for Arg1323.50 in Dopamine-Dependent D2R Activation. *PLoS ONE*, **2016**, 11, e0146612	3.7	8
76	Fluorescence Labeling of Neurotensin(8-13) via Arginine Residues Gives Molecular Tools with High Receptor Affinity. *ACS Medicinal Chemistry Letters*, **2020**, 11, 16-22	4.3	8
75	Red-Emitting Dibenzodiazepinone Derivatives as Fluorescent Dualsteric Probes for the Muscarinic Acetylcholine M Receptor. *Journal of Medicinal Chemistry*, **2020**, 63, 4133-4154	8.3	7

74	Dibenzo[b,f][1,4]oxazepines and dibenzo[b,e]oxepines: Influence of the chlorine substitution pattern on the pharmacology at the HR, HR, 5-HTR and other selected GPCRs. *Pharmacological Research*, **2016**, 113, 610-625	10.2	7
73	Discovery of dopamine D receptor antagonists with planar chirality. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1680-4	3.4	7
72	Diarylpropane-1,3-dione derivatives as TetR-inducing tetracycline mimetics: Synthesis and biological investigations. *ChemBioChem*, **2009**, 10, 2924-33	3.8	7
71	The bulky N6 substituent of cabergoline is responsible for agonism of this drug at 5-hydroxytryptamine 5-HT2A and 5-HT2B receptors and thus is a determinant of valvular heart disease. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 338, 381-91	4.7	7
70	Ex-Chiral Pool Synthesis of Aminooxazepinones as Conformationally Restricted b-Amino Acid Analogs. *Heterocycles*, **1999**, 51, 365	0.8	7
69	2-Dibenzylaminobutane-1,4-diol: An Effective Chiral Building Block for the Synthesis of 1,2-Amino Alcohols. *Synthesis*, **1995**, 1995, 83-86	2.9	7
68	Diastereoselective Synthesis of theC 2-Symmetric 2,3-Diaminotetralin via Electrophilic Amination. *Synthesis*, **1994**, 1994, 1026-1028	2.9	7
67	Synthesis, pharmacological investigation and computational studies on a tricyclic ergoline analog with selective dopamine autoreceptor activity. *Archiv Der Pharmazie*, **1995**, 328, 609-14	4.3	7
66	Synthesis of Chiral Indolizines as Bicyclic Ergoline Analogues. *Heterocycles*, **1991**, 32, 1499	0.8	7
65	Visualization of adrenergic receptor dynamics and differential localization in cardiomyocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
64	Potent haloperidol derivatives covalently binding to the dopamine D2 receptor. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 5084-5094	3.4	6
63	Investigation of Inactive-State Opioid Receptor Homodimerization via Single-Molecule Microscopy Using New Antagonistic Fluorescent Probes. *Journal of Medicinal Chemistry*, **2020**, 63, 3596-3609	8.3	6
62	Structure-based development of caged dopamine D/D receptor antagonists. *Scientific Reports*, **2020**, 10, 829	4.9	6
61	NTS2-selective neurotensin mimetics with tetrahydrofuran amino acids. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 350-359	3.4	6
60	A simple chemical method for synthesizing malonyl hemiesters of 21-hydroxypregnanes, potential intermediates in cardenolide biosynthesis. *Steroids*, **2008**, 73, 458-65	2.8	6
59	Synthesis of dihydrooxazole analogues derived from linezolid. *Tetrahedron*, **2003**, 59, 3403-3407	2.4	6
58	Indoloparacyclophanes: Synthesis and Dopamine Receptor Binding of a Novel Arylbioisostere. *Angewandte Chemie*, **2001**, 113, 1323-1325	3.6	6
57	Traceless Linking of Pyrroles: General Methology and Solid Phase Supported Functionalizations. *Synthesis*, **2002**, 2002, 0274	2.9	6

56	Tricyclic azaergoline analogues: synthesis, structural modifications, and pharmacological studies. *Archiv Der Pharmazie*, **1992**, 325, 649-55	4.3	6
55	Synthese anellierter Oxabenzomorphane. *Archiv Der Pharmazie*, **1986**, 319, 431-434	4.3	6
54	Optimization and synthesis of an (18) F-labeled dopamine D3 receptor ligand using [(18) F]fluorophenylazocarboxylic tert-butylester. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2016**, 59, 48-53	1.9	6
53	Development of molecular tools based on the dopamine D receptor ligand FAUC 329 showing inhibiting effects on drug and food maintained behavior. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 3491-3499	3.4	5
52	Hybridization of Adrenergic Agonists and Antagonists Confers G Protein Bias. *Journal of Medicinal Chemistry*, **2019**, 62, 5111-5131	8.3	5
51	Perquinolines A-C: Unprecedented Bacterial Tetrahydroisoquinolines Involving an Intriguing Biosynthesis. *Angewandte Chemie - International Edition*, **2019**, 58, 12930-12934	16.4	5
50	The pH probe CypHer5E is effectively quenched by FM dyes. *Journal of Fluorescence*, **2013**, 23, 487-94	2.4	5
49	Efficient Synthesis of Heterocyclic Neurotensin Receptor Ligands by Microwave-Assisted Aminocarbonylation. *Synthesis*, **2013**, 45, 2474-2480	2.9	5
48	Efficient EPC synthesis of aminobutanoic acid. *Liebigs Annalen Der Chemie*, **1991**, 1991, 501-502		5
47	Development of covalent antagonists for 1- and 2-adrenergic receptors. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 2959-2971	3.4	4
46	Spontaneous butenolide ring formation of pregnane-21-O-malonyl hemiesters under mild reaction conditions is facilitated by the 14hydroxy group present in all natural cardenolides. *Tetrahedron*, **2016**, 72, 4556-4563	2.4	4
45	Benzyl Phenylsemicarbazides: A Chemistry-Driven Approach Leading to G Protein-Biased Dopamine D Receptor Agonists with High Subtype Selectivity. *Journal of Medicinal Chemistry*, **2019**, 62, 9658-9679	8.3	4
44	Tetracycline sensing using novel doxycycline derivatives immobilized on different surface plasmon resonance biosensor surfaces. *Bioanalysis*, **2010**, 2, 217-27	2.1	4
43	Structural origins for selectivity and specificity in an engineered bacterial repressor-inducer pair. *FEBS Journal*, **2009**, 276, 5610-21	5.7	4
42	Chirospecific and subtype selective dopamine receptor binding of heterocyclic methoxynaphthamide analogs. *Archiv Der Pharmazie*, **2005**, 338, 276-80	4.3	4
41	Synthesis of (S)-3,4-diaminobutanenitriles as precursors for 3-amino-GABA derivatives. *Archiv Der Pharmazie*, **1995**, 328, 265-8	4.3	4
40	Synthesis of Tricyclic Azaergoline Analogues Synthese tricyclischer Azaergolin-Analoga. *Archiv Der Pharmazie*, **1990**, 323, 991-993	4.3	4
39	Fluorescent ligands for dopamine D/D receptors. *Scientific Reports*, **2020**, 10, 21842	4.9	4

38	Synthesis, Radiosynthesis and Biological Evaluation of Buprenorphine-Derived Phenylazocarboxamides as Novel Opioid Receptor Ligands. *ChemMedChem*, **2020**, 15, 1175-1186	3.7	3
37	Discovery of Novel Nonpeptidic PAR2 Ligands. *ACS Medicinal Chemistry Letters*, **2020**, 11, 1316-1323	4.3	3
36	Regiospecific Introduction of Halogens on the 2-Aminobiphenyl Subunit Leading to Highly Potent and Selective M3 Muscarinic Acetylcholine Receptor Antagonists and Weak Inverse Agonists. *Journal of Medicinal Chemistry*, **2020**, 63, 4349-4369	8.3	3
35	Fluoro-substituted phenylazocarboxamides: Dopaminergic behavior and N-arylating properties for irreversible binding. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 3938-47	3.4	3
34	Synthesis and dopamine receptor binding studies of homochiral 8-aminopyrido[1,2-a]indoles. *Archiv Der Pharmazie*, **1995**, 328, 626-8	4.3	3
33	Stereoelectronically controlled cyclization reactions on the way to peri-fused tetrahydropyrazolo[1,5-a]pyridines as aza analogs of ergoline partial structures. *Liebigs Annalen Der Chemie*, **1991**, 1991, 921-927		3
32	Synthese von ZNS-Wirkstoffen: Pyran-, thiopyran- und piperidinanellierte Oxa-carbabenzomorphane. *Archiv Der Pharmazie*, **1988**, 321, 397-401	4.3	3
31	Selective and Wash-Resistant Fluorescent Dihydrocodeinone Derivatives Allow Single-Molecule Imaging of Opioid Receptor Dimerization. *Angewandte Chemie*, **2020**, 132, 6014-6020	3.6	3
30	Pharmacological Characterization of Low-to-Moderate Affinity Opioid Receptor Agonists and Brain Imaging with F-Labeled Derivatives in Rats. *Journal of Medicinal Chemistry*, **2020**, 63, 9484-9499	8.3	3
29	Abolishing Dopamine D/D Receptor Affinity of Subtype-Selective Carbamoylguanidine-Type Histamine H Receptor Agonists. *Journal of Medicinal Chemistry*, **2021**, 64, 8684-8709	8.3	3
28	Homobivalent Dopamine D Receptor Ligands Modulate the Dynamic Equilibrium of D Monomers and Homo- and Heterodimers. *ACS Chemical Biology*, **2021**, 16, 371-379	4.9	3
27	Structure-based exploration of an allosteric binding pocket in the NTS1 receptor using bitopic NT(8-13) derivatives and molecular dynamics simulations. *Journal of Molecular Modeling*, **2019**, 25, 193	2	2
26	Arrestin-Bound Rhodopsin: A Molecular Structure and its Impact on the Development of Biased GPCR Ligands. *Angewandte Chemie - International Edition*, **2015**, 54, 13166-8	16.4	2
25	Tricyclic antidepressants, quinacrine and a novel, synthetic chimera thereof clear prions by destabilizing detergent-resistant membrane compartments. *Journal of Neurochemistry*, **2006**, 98, 1696-1696	6	2
24	Novel HO-DPAT (hydroxy-2-dipropylaminotetralin) isomers: Stereoselective synthesis and receptor binding studies. *Bioorganic and Medicinal Chemistry Letters*, **1994**, 4, 2589-2590	2.9	2
23	Oxabenzomorphane: Synthese ZNS-wirksamer Hexahydro-2,7-methano-1,5-benzoxazonine. *Archiv Der Pharmazie*, **1988**, 321, 321-324	4.3	2
22	Dibenzodiazepinone-type muscarinic receptor antagonists conjugated to basic peptides: Impact of the linker moiety and unnatural amino acids on MR selectivity. *European Journal of Medicinal Chemistry*, **2021**, 213, 113159	6.8	2
21	Presynaptic vesicular accumulation is required for antipsychotic efficacy in psychotic-like rats. *Journal of Psychopharmacology*, **2021**, 35, 65-77	4.6	2

20	Bivalent ligands promote endosomal trafficking of the dopamine D3 receptor-neurotensin receptor 1 heterodimer. *Communications Biology*, **2021**, 4, 1062	6.7	2
19	Activation and allosteric regulation of the orphan GPR88-Gi1 signaling complex.. *Nature Communications*, **2022**, 13, 2375	17.4	2
18	Innenrücktitelbild: Selective and Wash-Resistant Fluorescent Dihydrocodeinone Derivatives Allow Single-Molecule Imaging of μ-Opioid Receptor Dimerization (Angew. Chem. 15/2020). *Angewandte Chemie*, **2020**, 132, 6348-6348	3.6	1
17	GPCRs als hochrelevante Targets für die Wirkstoffentwicklung. *BioSpektrum*, **2014**, 20, 15-18	0.1	1
16	Anhydrotetracycline-peptide conjugates as representatives for ligand-based transactivating systems. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 6127-33	3.4	1
15	Click-chemistry-derived tetracycline-amino acid conjugates exhibiting exceptional potency and exclusive recognition of the reverse tet repressor. *ChemBioChem*, **2010**, 11, 703-12	3.8	1
14	Synthesis and stereochemistry of oxazolo[4?,5?:1,2]benz[5,4,3-c, d]-indole derivatives as intermediates on the way to a selective dopamine autoreceptor agonist. *Journal of Heterocyclic Chemistry*, **1996**, 33, 481-483	1.9	1
13	Pyrane, CXXIII. Regio- und diastereoselektive Synthesen von Hexahydro-4a,9-propanoxanthenonen. *Liebigs Annalen Der Chemie*, **1988**, 1988, 125-132		1
12	Radiosynthesis and evaluation of F-labeled dopamine D-receptor ligands. *Nuclear Medicine and Biology*, **2021**, 92, 43-52	2.1	1
11	Functionally selective activation of the dopamine receptor D is mirrored by the protein expression profiles. *Scientific Reports*, **2021**, 11, 3501	4.9	1
10	Optimizing the Expression of Human Dopamine Receptors in. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
9	Structural insights into ligand recognition, activation, and signaling of the α2A adrenergic receptor.. *Science Advances*, **2022**, 8, eabj5347	14.3	1
8	N-Terminus to Arginine Side-Chain Cyclization of Linear Peptidic Neuropeptide Y Y Receptor Ligands Results in Picomolar Binding Constants. *Journal of Medicinal Chemistry*, **2021**, 64, 16746-16769	8.3	0
7	Perquinoline A21: neuartige bakterielle Tetrahydroisochinoline mit einer bemerkenswerten Biosynthese. *Angewandte Chemie*, **2019**, 131, 13063-13068	3.6	
6	Die Rhodopsin-Arrestin-Kristallstruktur und ihre Bedeutung für die Entwicklung funktionell selektiver GPCR-Wirkstoffe. *Angewandte Chemie*, **2015**, 127, 13362-13364	3.6	
5	Selective GPCR ligands. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 3879	3.4	
4	Functional Reconstitution of Dopamine D2 Receptor into a Supported Model Membrane in a Nanometric Confinement. *Advanced Biology*, **2021**, 5, e2100636		
3	Dopamine Receptor Subtype-Selective Drugs: D2-Like Receptors **2010**, 101-135		

2	Sensitization to amphetamine psychostimulant effect: A key role for ventral tegmental area neurotensin type 2 receptors and MAP kinase pathway. *Addiction Biology*, **2021**, 26, e13008	4.6
1	Development of disulfide-functionalized peptides covalently binding G protein-coupled receptors.. *Bioorganic and Medicinal Chemistry*, **2022**, 61, 116720	3.4