Christa E MÃ¼ller

List of Publications by Year
in descending order

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465 papers	23,532 citations	6254 80 h-index	17592 121 g-index
482 all docs	482 docs citations	482 times ranked	19630 citing authors

#	Article	IF	Citations
1	International Union of Basic and Clinical Pharmacology. LXXXI. Nomenclature and Classification of Adenosine Receptorsâ€"An Update. Pharmacological Reviews, 2011, 63, 1-34.	16.0	1,135
2	Recent developments in adenosine receptor ligands and their potential as novel drugs. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1290-1308.	2.6	375
3	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: G proteinâ€coupled receptors. British Journal of Pharmacology, 2021, 178, S27-S156.	5.4	337
4	Structure of the human P2Y12 receptor in complex with an antithrombotic drug. Nature, 2014, 509, 115-118.	27.8	330
5	Adenosine activates brown adipose tissue and recruits beige adipocytes via A2A receptors. Nature, 2014, 516, 395-399.	27.8	316
6	Anthraquinones As Pharmacological Tools and Drugs. Medicinal Research Reviews, 2016, 36, 705-748.	10.5	300
7	The experimental power of FR900359 to study Gq-regulated biological processes. Nature Communications, 2015, 6, 10156.	12.8	282
8	Agonist-bound structure of the human P2Y12 receptor. Nature, 2014, 509, 119-122.	27.8	279
9	Caffeine acts through neuronal adenosine A _{2A} receptors to prevent mood and memory dysfunction triggered by chronic stress. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7833-7838.	7.1	248
10	CD39/ENTPD1 Expression by CD4+Foxp3+ Regulatory T Cells Promotes Hepatic Metastatic Tumor Growth in Mice. Gastroenterology, 2010, 139, 1030-1040.	1.3	240
11	Medicinal chemistry of adenosine, P2Y and P2X receptors. Neuropharmacology, 2016, 104, 31-49.	4.1	213
12	CD39/Ectonucleoside Triphosphate Diphosphohydrolase 1 Provides Myocardial Protection During Cardiac Ischemia/Reperfusion Injury. Circulation, 2007, 116, 1784-1794.	1.6	192
13	Involvement of Adenosine A1 and A2A Receptors in the Motor Effects of Caffeine after its Acute and Chronic Administration. Neuropsychopharmacology, 2003, 28, 1281-1291.	5.4	177
14	Past, present and future of A2A adenosine receptor antagonists in the therapy of Parkinson's disease. , 2011, 132, 280-299.		170
15	Structureâ€"activity relationships of flavonoids as inhibitors of breast cancer resistance protein (BCRP). Bioorganic and Medicinal Chemistry, 2011, 19, 2090-2102.	3.0	169
16	Polyoxometalatesâ€"a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5943-5947.	2.2	167
17	Dopaminergic Modulation of Effort-Related Choice Behavior as Assessed by a Progressive Ratio Chow Feeding Choice Task: Pharmacological Studies and the Role of Individual Differences. PLoS ONE, 2012, 7, e47934.	2.5	166
18	Update of P2X receptor properties and their pharmacology: IUPHAR Review 30. British Journal of Pharmacology, 2021, 178, 489-514.	5.4	165

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19	Crystal Structure of the Human Ecto-5â€²-Nucleotidase (CD73): Insights into the Regulation of Purinergic Signaling. Structure, 2012, 20, 2161-2173.	3.3	164
20	Beneficial effects of caffeine in a transgenic model of Alzheimer's disease-like tau pathology. Neurobiology of Aging, 2014, 35, 2079-2090.	3.1	163
21	Adenosine A_{2A} receptor antagonists exert motor and neuroprotective effects by distinct cellular mechanisms. Annals of Neurology, 2008, 63, 338-346.	5.3	159
22	Antagonistic cannabinoid CB1/dopamine D2 receptor interactions in striatal CB1/D2 heteromers. A combined neurochemical and behavioral analysis. Neuropharmacology, 2008, 54, 815-823.	4.1	154
23	Update of P2Y receptor pharmacology: IUPHAR Review 27. British Journal of Pharmacology, 2020, 177, 2413-2433.	5.4	151
24	Adenosine Receptor Antagonists Including Caffeine Alter Fetal Brain Development in Mice. Science Translational Medicine, 2013, 5, 197ra104.	12.4	148
25	Ecto-5'-Nucleotidase (CD73)-Mediated Formation of Adenosine Is Critical for the Striatal Adenosine A2A Receptor Functions. Journal of Neuroscience, 2013, 33, 11390-11399.	3.6	146
26	P2Y2 and Gq/G11 control blood pressure by mediating endothelial mechanotransduction. Journal of Clinical Investigation, 2015, 125, 3077-3086.	8.2	145
27	A2A adenosine receptor deletion is protective in a mouse model of Tauopathy. Molecular Psychiatry, 2016, 21, 97-107.	7.9	145
28	Antinociceptive Effects of Novel A2B Adenosine Receptor Antagonists. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 358-366.	2.5	144
29	Lignans Isolated from Valerian:â€‰ Identification and Characterization of a New Olivil Derivative with Partial Agonistic Activity at A1 Adenosine Receptors. Journal of Natural Products, 2002, 65, 1479-1485.	3.0	143
30	1-Alkyl-8-(piperazine-1-sulfonyl)phenylxanthines: Development and Characterization of Adenosine A_{2B} Receptor Antagonists and a New Radioligand with Subnanomolar Affinity and Subtype Specificity. Journal of Medicinal Chemistry, 2009, 52, 3994-4006.	6.4	143
31	Contribution of Eâ€NTPDasel (CD39) to renal protection from ischemiaâ€reperfusion injury. FASEB Journal, 2007, 21, 2863-2873.	0.5	140
32	Multigram-Scale Syntheses, Stability, and Photoreactions of A2AAdenosine Receptor Antagonists with 8-Styrylxanthine Structure:Â Potential Drugs for Parkinson's Disease. Journal of Organic Chemistry, 2004, 69, 3308-3318.	3.2	137
33	Identification by Site-directed Mutagenesis of Residues Involved in Ligand Recognition and Activation of the Human A3 Adenosine Receptor. Journal of Biological Chemistry, 2002, 277, 19056-19063.	3.4	134
34	1,8-Disubstituted Xanthine Derivatives:â€‰ Synthesis of Potent A2B-Selective Adenosine Receptor Antagonists. Journal of Medicinal Chemistry, 2002, 45, 1500-1510.	6.4	134
35	P2 Receptors Activated by Uracil Nucleotides - An Update. Current Medicinal Chemistry, 2006, 13, 289-312.	2.4	134
36	Polyoxometalates as Versatile Enzyme Inhibitors. European Journal of Inorganic Chemistry, 2013, 2013, 1585-1594.	2.0	132

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37	Water-Soluble Phosphate Prodrugs of 1-Propargyl-8-styrylxanthine Derivatives, A2A-Selective Adenosine Receptor Antagonists. Journal of Medicinal Chemistry, 2000, 43, 440-448.	6.4	129
38	Age-related shift in LTD is dependent on neuronal adenosine A2A receptors interplay with mGluR5 and NMDA receptors. Molecular Psychiatry, 2020, 25, 1876-1900.	7.9	129
39	Metabotropic glutamate mGlu5 receptor-mediated modulation of the ventral striopallidal GABA pathway in rats. Interactions with adenosine A2A and dopamine D2 receptors. Neuroscience Letters, 2002, 324, 154-158.	2.1	124
40	Adenosine A2A receptor blockade reverts hippocampal stress-induced deficits and restores corticosterone circadian oscillation. Molecular Psychiatry, 2013, 18, 320-331.	7.9	124
41	Adenosine/dopamine interaction: implications for the treatment of Parkinson's disease. Parkinsonism and Related Disorders, 2001, 7, 235-241.	2.2	118
42	A Dual Role of Adenosine A_{2A}Receptors in 3-Nitropropionic Acid-Induced Striatal Lesions: Implications for the Neuroprotective Potential of A_{2A}Antagonists. Journal of Neuroscience, 2003, 23, 5361-5369.	3.6	118
43	Adenosine receptor agonists: from basic medicinal chemistry to clinical development. Expert Opinion on Emerging Drugs, 2003, 8, 537-576.	2.4	117
44	Adenosine receptors and their modulators. Pharmaceutica Acta Helvetiae, 1993, 68, 77-111.	1.2	115
45	Caffeine and an adenosine A_{2A} receptor antagonist prevent memory impairment and synaptotoxicity in adult rats triggered by a convulsive episode in early life. Journal of Neurochemistry, 2010, 112, 453-462.	3.9	115
46	Effort-Related Motivational Effects of the VMAT-2 Inhibitor Tetrabenazine: Implications for Animal Models of the Motivational Symptoms of Depression. Journal of Neuroscience, 2013, 33, 19120-19130.	3.6	114
47	Selective Activation of Adenosine A _{2A} Receptors on Immune Cells by a CD73-Dependent Prodrug Suppresses Joint Inflammation in Experimental Rheumatoid Arthritis. Science Translational Medicine, 2012, 4, 146ra108.	12.4	111
48	Decoding Signaling and Function of the Orphan G Proteinâ€“Coupled Receptor GPR17 with a Small-Molecule Agonist. Science Signaling, 2013, 6, ra93.	3.6	111
49	Selectivity is species-dependent: Characterization of standard agonists and antagonists at human, rat, and mouse adenosine receptors. Purinergic Signalling, 2015, 11, 389-407.	2.2	111
50	Prodrug Approaches for Enhancing the Bioavailability of Drugs with Low Solubility. Chemistry and Biodiversity, 2009, 6, 2071-2083.	2.1	110
51	Î±,Î²-Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective ecto-5â€²-Nucleotidase (CD73) Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 6248-6263.	6.4	110
52	Synthesis and Structureâ^'Activity Relationships of Uracil Nucleotide Derivatives and Analogues as Agonists at Human P2Y2, P2Y4, and P2Y6 Receptors. Journal of Medicinal Chemistry, 2006, 49, 7076-7087.	6.4	109
53	Adenosine A2A receptor antagonism and genetic deletion attenuate the effects of dopamine D2 antagonism on effort-based decision making in mice. Neuropharmacology, 2012, 62, 2068-2077.	4.1	108
54	Xanthines as Adenosine Receptor Antagonists. Handbook of Experimental Pharmacology, 2011, , 151-199.	1.8	107

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55	Polyoxometalatesâ€"Potent and selective ecto-nucleotidase inhibitors. Biochemical Pharmacology, 2015, 93, 171-181.	4.4	107
56	The adenosine A2A antagonist MSX-3 reverses the effects of the dopamine antagonist haloperidol on effort-related decision making in a T-maze cost/benefit procedure. Psychopharmacology, 2009, 204, 103-112.	3.1	105
57	Medicinal Chemistry of Adenosine A3 Receptor Ligands. Current Topics in Medicinal Chemistry, 2003, 3, 445-462.	2.1	104
58	Nucleus accumbens and effort-related functions: behavioral and neural markers of the interactions between adenosine A2A and dopamine D2 receptors. Neuroscience, 2010, 166, 1056-1067.	2.3	103
59	Catalepsy induced by a blockade of dopamine D1or D2receptors was reversed by a concomitant blockade of adenosine A2Areceptors in the caudate-putamen of rats. European Journal of Neuroscience, 2001, 14, 1287-1293.	2.6	100
60	N-Substituted Phenoxazine and Acridone Derivatives: Structureâ€"Activity Relationships of Potent P2X4 Receptor Antagonists. Journal of Medicinal Chemistry, 2012, 55, 9576-9588.	6.4	100
61	Preparation, Properties, Reactions, and Adenosine Receptor Affinities of Sulfophenylxanthine Nitrophenyl Esters:Â Toward the Development of Sulfonic Acid Prodrugs with Peroral Bioavailability. Journal of Medicinal Chemistry, 2004, 47, 1031-1043.	6.4	97
62	Adenosine A2A receptor blockade prevents memory dysfunction caused by Î²-amyloid peptides but not by scopolamine or MK-801. Experimental Neurology, 2008, 210, 776-781.	4.1	97
63	Pharmacological evaluation of synthetic cannabinoids identified as constituents of spice. Forensic Toxicology, 2016, 34, 329-343.	2.4	96
64	Targeting the Main Protease of SARSâ€CoVâ€2: From the Establishment of High Throughput Screening to the Design of Tailored Inhibitors. Angewandte Chemie - International Edition, 2021, 60, 10423-10429.	13.8	95
65	Adenosine regulates CD8 Tâ€cell priming by inhibition of membraneâ€proximal Tâ€cell receptor signalling. Immunology, 2009, 128, e728-37.	4.4	94
66	Adenosine A2A receptor antagonism reverses the effects of dopamine receptor antagonism on instrumental output and effort-related choice in the rat: implications for studies of psychomotor slowing. Psychopharmacology, 2007, 191, 579-586.	3.1	93
67	[3H]8-Ethyl-4-methyl-2-phenyl-(8R)-4,5,7,8-tetrahydro-1H-imidazo[2,1-i]-purin-5-one ([3H]PSB-11), a Novel High-Affinity Antagonist Radioligand for Human A3 Adenosine Receptors. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 501-503.	2.2	92
68	Effort-related motivational effects of the pro-inflammatory cytokine interleukin 1-beta: studies with the concurrent fixed ratio 5/ chow feeding choice task. Psychopharmacology, 2014, 231, 727-736.	3.1	91
69	Involvement of adenosine A2A and dopamine receptors in the locomotor and sensitizing effects of cocaine. Brain Research, 2006, 1077, 67-80.	2.2	90
70	Adenosine Receptor Ligands-Recent Developments Part I. Agonists. Current Medicinal Chemistry, 2000, 7, 1269-1288.	2.4	89
71	High-Affinity, Non-Nucleotide-Derived Competitive Antagonists of Platelet P2Y₁₂ Receptors. Journal of Medicinal Chemistry, 2009, 52, 3784-3793.	6.4	89
72	Development of Potent and Selective Inhibitors of ecto-5â€²-Nucleotidase Based on an Anthraquinone Scaffold. Journal of Medicinal Chemistry, 2010, 53, 2076-2086.	6.4	88

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73	Pharmacological evaluation of new constituents of â€œSpiceâ€• synthetic cannabinoids based on indole, indazole, benzimidazole and carbazole scaffolds. Forensic Toxicology, 2018, 36, 385-403.	2.4	88
74	Role of central and peripheral adenosine receptors in the cardiovascular responses to intraperitoneal injections of adenosine A₁ and A_{2A} subtype receptor agonists. British Journal of Pharmacology, 2005, 144, 642-650.	5.4	87
75	Ecto-ATPase inhibition: ATP and adenosine release under physiological and ischemic in vivo conditions in the rat striatum. Experimental Neurology, 2012, 233, 193-204.	4.1	84
76	The VMAT-2 inhibitor tetrabenazine alters effort-related decision making as measured by the T-maze barrier choice task: reversal with the adenosine A2A antagonist MSX-3 and the catecholamine uptake blocker bupropion. Psychopharmacology, 2015, 232, 1313-1323.	3.1	84
77	l-DOPA-treatment in primates disrupts the expression of A2A adenosineâ€“CB1 cannabinoidâ€“D2 dopamine receptor heteromers in the caudate nucleus. Neuropharmacology, 2014, 79, 90-100.	4.1	83
78	Inactivation of adenosine A2A receptors reverses working memory deficits at early stages of Huntington's disease models. Neurobiology of Disease, 2015, 79, 70-80.	4.4	83
79	Recent Progress in the Development of Adenosine Receptor Ligands as Antiinflammatory Drugs. Current Topics in Medicinal Chemistry, 2006, 6, 1375-1399.	2.1	83
80	Synthesis and Structureâ^'Activity Relationships of 3,7-Dimethyl-1-propargylxanthine Derivatives, A2A-Selective Adenosine Receptor Antagonistsâ€. Journal of Medicinal Chemistry, 1997, 40, 4396-4405.	6.4	82
81	Electrophysiological and behavioural evidence for an antagonistic modulatory role of adenosine A2Areceptors in dopamine D2receptor regulation in the rat dopamine-denervated striatum. European Journal of Neuroscience, 2000, 12, 4033-4037.	2.6	82
82	Allosteric Modulation of A3 Adenosine Receptors by a Series of 3-(2-Pyridinyl)isoquinoline Derivatives. Molecular Pharmacology, 2001, 60, 1057-1063.	2.3	82
83	The VMAT-2 Inhibitor Tetrabenazine Affects Effort-Related Decision Making in a Progressive Ratio/Chow Feeding Choice Task: Reversal with Antidepressant Drugs. PLoS ONE, 2014, 9, e99320.	2.5	82
84	Imidazo[2,1-i]purin-5-ones and Related Tricyclic Water-Soluble Purine Derivatives:Â Potent A2A- and A3-Adenosine Receptor Antagonistsâ€. Journal of Medicinal Chemistry, 2002, 45, 3440-3450.	6.4	81
85	Diindolylmethane Derivatives: Potent Agonists of the Immunostimulatory Orphan G Protein-Coupled Receptor GPR84. Journal of Medicinal Chemistry, 2017, 60, 3636-3655.	6.4	81
86	Elucidating the active Î´-opioid receptor crystal structure with peptide and small-molecule agonists. Science Advances, 2019, 5, eaax9115.	10.3	81
87	Binding of [3H]MSX-2 (3-(3-hydroxypropyl)-7-methyl-8-(m-methoxystyryl)-1-propargylxanthine) to rat striatal membranes â€" a new, selective antagonist radioligand for A2A adenosine receptors. European Journal of Pharmaceutical Sciences, 2000, 10, 259-265.	4.0	80
88	Nucleotide pyrophosphatase/phosphodiesterase 1 (NPP1) and its inhibitors. MedChemComm, 2017, 8, 823-840.	3.4	80
89	Blocking Striatal Adenosine A2A Receptors: A New Strategy for Basal Ganglia Disorders. Recent Patents on CNS Drug Discovery, 2007, 2, 1-21.	0.9	79
90	Dual Targeting of Adenosine A_{2A} Receptors and Monoamine Oxidase B by 4H-3,1-Benzothiazin-4-ones. Journal of Medicinal Chemistry, 2013, 56, 4580-4596.	6.4	78

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91	Advances in immobilized enzyme microbioreactors in capillary electrophoresis. Analyst, The, 2013, 138, 3104.	3.5	77
92	Central P2Y12 receptor blockade alleviates inflammatory and neuropathic pain and cytokine production in rodents. Neurobiology of Disease, 2014, 70, 162-178.	4.4	77
93	Indazole- and Indole-5-carboxamides: Selective and Reversible Monoamine Oxidase B Inhibitors with Subnanomolar Potency. Journal of Medicinal Chemistry, 2014, 57, 6679-6703.	6.4	77
94	l-DOPA disrupts adenosine A2Aâ€“cannabinoid CB1â€“dopamine D2 receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: Biochemical and behavioral studies. Experimental Neurology, 2014, 253, 180-191.	4.1	77
95	Adenosine A2A receptor ligand recognition and signaling is blocked by A2B receptors. Oncotarget, 2018, 9, 13593-13611.	1.8	77
96	Structureâ^'Activity Relationships at Human and Rat A2BAdenosine Receptors of Xanthine Derivatives Substituted at the 1-, 3-, 7-, and 8-Positions. Journal of Medicinal Chemistry, 2002, 45, 2131-2138.	6.4	76
97	3CL Protease Inhibitors with an Electrophilic Arylketone Moiety as Anti-SARS-CoV-2 Agents. Journal of Medicinal Chemistry, 2022, 65, 2926-2939.	6.4	75
98	Magnolia Extract, Magnolol, and Metabolites: Activation of Cannabinoid CB₂ Receptors and Blockade of the Related GPR55. ACS Medicinal Chemistry Letters, 2013, 4, 41-45.	2.8	74
99	Tremorolytic effects of adenosine A2A antagonists: implications for parkinsonism. Frontiers in Bioscience - Landmark, 2008, Volume, 3594.	3.0	74
100	Key Determinants of Nucleotide-Activated G Protein-Coupled P2Y₂ Receptor Function Revealed by Chemical and Pharmacological Experiments, Mutagenesis and Homology Modeling. Journal of Medicinal Chemistry, 2009, 52, 2762-2775.	6.4	73
101	A1-Adenosine receptor antagonists. Expert Opinion on Therapeutic Patents, 1997, 7, 419-440.	5.0	72
102	Interactions of valerian extracts and a fixed valerianâ€“hop extract combination with adenosine receptors. Life Sciences, 2002, 71, 1939-1949.	4.3	72
103	A capillary electrophoresis method for the characterization of ecto-nucleoside triphosphate diphosphohydrolases (NTPDases) and the analysis of inhibitors by in-capillary enzymatic microreaction. Purinergic Signalling, 2005, 1, 349-358.	2.2	72
104	Rapid and Efficient Microwave-Assisted Copper(0)-Catalyzed Ullmann Coupling Reaction:Â General Access to Anilinoanthraquinone Derivatives. Organic Letters, 2007, 9, 1271-1274.	4.6	72
105	Beneficial Effect of a Selective Adenosine A2A Receptor Antagonist in the APPswe/PS1dE9 Mouse Model of Alzheimerâ€™s Disease. Frontiers in Molecular Neuroscience, 2018, 11, 235.	2.9	72
106	Cardiac myocyteâ€“secreted cAMP exerts paracrine action via adenosine receptor activation. Journal of Clinical Investigation, 2014, 124, 5385-5397.	8.2	70
107	A detailed behavioral analysis of the acute motor effects of caffeine in the rat: involvement of adenosine A1 and A2A receptors. Psychopharmacology, 2005, 183, 154-162.	3.1	67
108	A highly sensitive CEâ€UV method with dynamic coating of silicaâ€fused capillaries for monitoring of nucleotide pyrophosphatase/phosphodiesterase reactions. Electrophoresis, 2008, 29, 3685-3693.	2.4	67

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109	Effort-related motivational effects of the pro-inflammatory cytokine interleukin-6: pharmacological and neurochemical characterization. Psychopharmacology, 2016, 233, 3575-3586.	3.1	67
110	GPR55: A therapeutic target for Parkinson's disease?. Neuropharmacology, 2017, 125, 319-332.	4.1	67
111	International Union of Basic and Clinical Pharmacology. CXII: Adenosine Receptors: A Further Update. Pharmacological Reviews, 2022, 74, 340-372.	16.0	67
112	Motor effects induced by a blockade of adenosine A2A receptors in the caudate-putamen. NeuroReport, 1998, 9, 1803-1806.	1.2	66
113	The adenosine A2A antagonist MSX-3 reverses the effort-related effects of dopamine blockade: differential interaction with D1 and D2 family antagonists. Psychopharmacology, 2009, 203, 489-499.	3.1	66
114	Coordination of capsule assembly and cell wall biosynthesis in Staphylococcus aureus. Nature Communications, 2019, 10, 1404.	12.8	66
115	CD73-mediated adenosine production by CD8 T cell-derived extracellular vesicles constitutes an intrinsic mechanism of immune suppression. Nature Communications, 2021, 12, 5911.	12.8	66
116	Synthesis and Structure-Activity Relationships of Deazaxanthines: Analogs of Potent A1- and A2-Adenosine Receptor Antagonists. Journal of Medicinal Chemistry, 1994, 37, 1526-1534.	6.4	64
117	Structure-activity relationships of anthraquinone derivatives derived from bromaminic acid as inhibitors of ectonucleoside triphosphate diphosphohydrolases (E-NTPDases). Purinergic Signalling, 2009, 5, 91-106.	2.2	64
118	Structural Mapping of Adenosine Receptor Mutations: Ligand Binding and Signaling Mechanisms. Trends in Pharmacological Sciences, 2018, 39, 75-89.	8.7	64
119	Bioactive Pyridoacridine Alkaloids from the Micronesian SpongeOceanapiasp.. Journal of Natural Products, 1998, 61, 301-305.	3.0	63
120	Nucleoside-5â€²-monophosphates as Prodrugs of Adenosine A_{2A} Receptor Agonists Activated by ecto-5â€²-Nucleotidaseâ€Contribution to celebrate the 100th anniversary of the Division of Medicinal Chemistry of the American Chemical Society.. Journal of Medicinal Chemistry, 2009, 52, 7669-7677.	6.4	63
121	Discovery of Potent Competitive Antagonists and Positive Modulators of the P2X2 Receptor. Journal of Medicinal Chemistry, 2011, 54, 817-830.	6.4	63
122	Caffeine Analogs: Structure-Activity Relationships at Adenosine Receptors. Pharmacology, 1991, 42, 309-321.	2.2	62
123	Combinatorial synthesis of anilinoanthraquinone derivatives and evaluation as non-nucleotide-derived P2Y2 receptor antagonists. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 223-227.	2.2	62
124	Allosteric modulators of rhodopsin-like G protein-coupled receptors: Opportunities in drug development. , 2012, 135, 292-315.		62
125	Imidazopyridine- and Purine-Thioacetamide Derivatives: Potent Inhibitors of Nucleotide Pyrophosphatase/Phosphodiesterase 1 (NPP1). Journal of Medicinal Chemistry, 2014, 57, 10080-10100.	6.4	62
126	Synthesis and pharmacology of pyrido[2,3-d]pyrimidinediones bearing polar substituents as adenosine receptor antagonists. Bioorganic and Medicinal Chemistry, 2006, 14, 2837-2849.	3.0	59

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127	Interaction of New, Very Potent Non-Nucleotide Antagonists with Arg256 of the Human Platelet P2Y₁₂ Receptor. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 648-655.	2.5	59
128	Mass spectrometric identification of modified urinary nucleosides used as potential biomedical markers by LCâ€"ITMS coupling. Analytical and Bioanalytical Chemistry, 2005, 382, 1017-1026.	3.7	58
129	Dopamine/adenosine interactions related to locomotion and tremor in animal models: Possible relevance to parkinsonism. Parkinsonism and Related Disorders, 2008, 14, S130-S134.	2.2	57
130	Heterologous Expression, Biosynthetic Studies, and Ecological Function of the Selective Gqâ€Signaling Inhibitor FR900359. Angewandte Chemie - International Edition, 2018, 57, 836-840.	13.8	57
131	Identification of a Potent and Selective Cannabinoid CB₁Receptor Antagonist fromAuxarthron reticulatum. ACS Medicinal Chemistry Letters, 2011, 2, 866-869.	2.8	56
132	Synthesis, characterization, and in vitro evaluation of the selective P2Y2 receptor antagonist AR-C118925. Purinergic Signalling, 2017, 13, 89-103.	2.2	56
133	Interaction of Purinergic P2X4 and P2X7 Receptor Subunits. Frontiers in Pharmacology, 2017, 8, 860.	3.5	56
134	P2-Pyrimidinergic Receptors and Their Ligands. Current Pharmaceutical Design, 2002, 8, 2353-2369.	1.9	55
135	The caffeine-binding adenosine A2A receptor induces age-like HPA-axis dysfunction by targeting glucocorticoid receptor function. Scientific Reports, 2016, 6, 31493.	3.3	55
136	A2A adenosine receptor antagonists - future drugs for Parkinson's disease?. Drugs of the Future, 2000, 25, 1043.	0.1	55
137	Differential allosteric modulation by amiloride analogues of agonist and antagonist binding at A1 and A3 adenosine receptors. Biochemical Pharmacology, 2003, 65, 525-534.	4.4	54
138	Improving Potency, Selectivity, and Water Solubility of Adenosineâ€...A1 Receptor Antagonists: Xanthines Modified at Positionâ€...3 and Related Pyrimido[1,2,3-cd]purinediones. ChemMedChem, 2006, 1, 891-902.	3.2	54
139	Enzymatic Properties of an Ecto-nucleoside Triphosphate Diphosphohydrolase from Legionella pneumophila. Journal of Biological Chemistry, 2008, 283, 12909-12918.	3.4	54
140	Effects of an adenosine A2Areceptor blockade in the nucleus accumbens on locomotion, feeding, and prepulse inhibition in rats. Synapse, 2003, 49, 279-286.	1.2	53
141	Synthesis and pharmacological evaluation of coumarin derivatives as cannabinoid receptor antagonists and inverse agonists. Bioorganic and Medicinal Chemistry, 2009, 17, 2842-2851.	3.0	53
142	Treatment with A2A receptor antagonist KW6002 and caffeine intake regulate microglia reactivity and protect retina against transient ischemic damage. Cell Death and Disease, 2017, 8, e3065-e3065.	6.3	53
143	Structureâ€"Activity Relationship of Purine and Pyrimidine Nucleotides as Ecto-5â€²-Nucleotidase (CD73) Inhibitors. Journal of Medicinal Chemistry, 2019, 62, 3677-3695.	6.4	53
144	Apoptotic brown adipocytes enhance energy expenditure via extracellular inosine. Nature, 2022, 609, 361-368.	27.8	53

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145	Synthesis of alkyl- and aryl-amino-substituted anthraquinone derivatives by microwave-assisted copper(0)-catalyzed Ullmann coupling reactions. Nature Protocols, 2010, 5, 945-953.	12.0	52
146	Benzothiazinones: A Novel Class of Adenosine Receptor Antagonists Structurally Unrelated to Xanthine and Adenine Derivatives. Journal of Medicinal Chemistry, 2012, 55, 3331-3341.	6.4	52
147	2-Phenylimidazo[2,1-i]purin-5-ones Structureâ€“Activity relationships and characterization of potent and selective inverse agonists at Human A3 adenosine receptors. Bioorganic and Medicinal Chemistry, 2003, 11, 347-356.	3.0	51
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