

Katia Varani

List of Publications by Year in descending order

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129
papers

6,367
citations

57758

44
h-index

82547

72
g-index

131
all docs

131
docs citations

131
times ranked

6180
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacology of Adenosine Receptors: The State of the Art. <i>Physiological Reviews</i> , 2018, 98, 1591-1625.	28.8	495
2	A ₃ Adenosine Receptors in Human Neutrophils and Promyelocytic HL60 Cells: A Pharmacological and Biochemical Study. <i>Molecular Pharmacology</i> , 2002, 61, 415-424.	2.3	375
3	Adenosine as a Multi-Signalling Guardian Angel in Human Diseases: When, Where and How Does it Exert its Protective Effects?. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 419-434.	8.7	238
4	The A ₃ Adenosine Receptor: History and Perspectives. <i>Pharmacological Reviews</i> , 2015, 67, 74-102.	16.0	204
5	The A ₃ adenosine receptor: An enigmatic player in cell biology. , 2008, 117, 123-140.		197
6	Binding and Signaling Studies Disclose a Potential Allosteric Site for Cannabidiol in Cannabinoid CB ₂ Receptors. <i>Frontiers in Pharmacology</i> , 2017, 8, 744.	3.5	134
7	Effect of low frequency electromagnetic fields on A _{2A} adenosine receptors in human neutrophils. <i>British Journal of Pharmacology</i> , 2002, 136, 57-66.	5.4	119
8	A _{2A} and A ₃ adenosine receptor expression in rheumatoid arthritis: upregulation, inverse correlation with disease activity score and suppression of inflammatory cytokine and metalloproteinase release. <i>Arthritis Research and Therapy</i> , 2011, 13, R197.	3.5	113
9	A ₃ Adenosine Receptors as Modulators of Inflammation: From Medicinal Chemistry to Therapy. <i>Medicinal Research Reviews</i> , 2018, 38, 1031-1072.	10.5	111
10	Pharmacological and biochemical characterization of adenosine receptors in the human malignant melanoma A375 cell line. <i>British Journal of Pharmacology</i> , 2001, 134, 1215-1226.	5.4	107
11	A _{2A} adenosine receptor overexpression and functionality, as well as TNF α levels, correlate with motor symptoms in Parkinson's disease. <i>FASEB Journal</i> , 2010, 24, 587-598.	0.5	107
12	Pulsed Electromagnetic Fields Increased the Anti-Inflammatory Effect of A _{2A} and A ₃ Adenosine Receptors in Human T/C-28a2 Chondrocytes and hFOB 1.19 Osteoblasts. <i>PLoS ONE</i> , 2013, 8, e65561.	2.5	106
13	Caffeine Alters A _{2A} Adenosine Receptors and Their Function in Human Platelets. <i>Circulation</i> , 1999, 99, 2499-2502.	1.6	102
14	Alteration of Adenosine Receptors in Patients with Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 398-406.	5.6	101
15	Pharmacological and biochemical characterization of A ₃ adenosine receptors in Jurkat T cells. <i>British Journal of Pharmacology</i> , 2001, 134, 116-126.	5.4	100
16	Pathological overproduction: the bad side of adenosine. <i>British Journal of Pharmacology</i> , 2017, 174, 1945-1960.	5.4	94
17	Medicinal Chemistry, Pharmacology, and Potential Therapeutic Benefits of Cannabinoid CB ₂ Receptor Agonists. <i>Chemical Reviews</i> , 2016, 116, 519-560.	47.7	91
18	History and Perspectives of A _{2A} Adenosine Receptor Antagonists as Potential Therapeutic Agents. <i>Medicinal Research Reviews</i> , 2015, 35, 790-848.	10.5	88

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19	Cannabigerol Action at Cannabinoid CB1 and CB2 Receptors and at CB1â€“CB2 Heteroreceptor Complexes. <i>Frontiers in Pharmacology</i> , 2018, 9, 632.	3.5	88
20	Changes of peripheral A _{2A} adenosine receptors in chronic heart failure and cardiac transplantation. <i>FASEB Journal</i> , 2003, 17, 280-282.	0.5	85
21	A Consensus Panel Review of Central Nervous System Effects of the Exposure to Low-Intensity Extremely Low-Frequency Magnetic Fields. <i>Brain Stimulation</i> , 2013, 6, 469-476.	1.6	85
22	Pharmacological and biochemical characterization of purified A _{2A} adenosine receptors in human platelet membranes by [³ H]â€“CGS 21680 binding. <i>British Journal of Pharmacology</i> , 1996, 117, 1693-1701.	5.4	79
23	Can thermodynamic measurements of receptor binding yield information on drug affinity and efficacy?. <i>Biochemical Pharmacology</i> , 2000, 60, 1549-1556.	4.4	76
24	Aberrant A _{2A} receptor function in peripheral blood cells in Huntington's disease. <i>FASEB Journal</i> , 2003, 17, 1-16.	0.5	75
25	Normalization of A _{2A} and A ₃ adenosine receptor upâ€“regulation in rheumatoid arthritis patients by treatment with antiâ€“tumor necrosis factor Î± but not methotrexate. <i>Arthritis and Rheumatism</i> , 2009, 60, 2880-2891.	6.7	74
26	Adenosine receptor targeting in health and disease. <i>Expert Opinion on Investigational Drugs</i> , 2011, 20, 1591-1609.	4.1	74
27	The activation of Î¼-opioid receptor potentiates LPSâ€“induced NFâ€“ÎºB promoting an inflammatory phenotype in microglia. <i>FEBS Letters</i> , 2016, 590, 2813-2826.	2.8	74
28	Age-dependent dopamine transporter dysfunction and Serine129 phospho-Î±-synuclein overload in G2019S LRRK2 mice. <i>Acta Neuropathologica Communications</i> , 2017, 5, 22.	5.2	73
29	Adenosine Receptors in Health and Disease. <i>Advances in Pharmacology</i> , 2011, 61, 41-75.	2.0	70
30	Effect of the novel synthetic cannabinoids AKB48 and 5F-AKB48 on â€“tetradâ€“, sensorimotor, neurological and neurochemical responses in mice. In vitro and in vivo pharmacological studies. <i>Psychopharmacology</i> , 2016, 233, 3685-3709.	3.1	63
31	Adenosine Receptors as a Biological Pathway for the Anti-Inflammatory and Beneficial Effects of Low Frequency Low Energy Pulsed Electromagnetic Fields. <i>Mediators of Inflammation</i> , 2017, 2017, 1-11.	3.0	63
32	â€“Bridging the Gapâ€“Everything that Could Have Been Avoided If We Had Applied Gender Medicine, Pharmacogenetics and Personalized Medicine in the Gender-Omics and Sex-Omics Era. <i>International Journal of Molecular Sciences</i> , 2020, 21, 296.	4.1	63
33	Adenosine and Inflammation: Here, There and Everywhere. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7685.	4.1	63
34	Effect of JWH-250, JWH-073 and their interaction on â€“tetradâ€“, sensorimotor, neurological and neurochemical responses in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 67, 31-50.	4.8	62
35	TRR469, a potent A ₁ adenosine receptor allosteric modulator, exhibits anti-nociceptive properties in acute and neuropathic pain models in mice. <i>Neuropharmacology</i> , 2014, 81, 6-14.	4.1	59
36	A _{2B} adenosine receptors stimulate IL-6 production in primary murine microglia through p38 MAPK kinase pathway. <i>Pharmacological Research</i> , 2017, 117, 9-19.	7.1	57

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37	Pharmacological data of cannabidiol- and cannabigerol-type phytocannabinoids acting on cannabinoid CB1, CB2 and CB1/CB2 heteromer receptors. <i>Pharmacological Research</i> , 2020, 159, 104940.	7.1	57
38	[3 H]-SCH 58261 labelling of functional A2A adenosine receptors in human neutrophil membranes. <i>British Journal of Pharmacology</i> , 1998, 123, 1723-1731.	5.4	56
39	Antinociceptive effects of the selective CB2 agonist MT178 in inflammatory and chronic rodent pain models. <i>Pain</i> , 2013, 154, 864-873.	4.2	56
40	Pulsed Electromagnetic Field Exposure Reduces Hypoxia and Inflammation Damage in Neuron-Like and Microglial Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 1200-1208.	4.1	55
41	Pharmacological characterization of novel adenosine ligands in recombinant and native human A2B receptors. <i>Biochemical Pharmacology</i> , 2005, 70, 1601-1612.	4.4	53
42	Functional Tissue Engineering in Articular Cartilage Repair: Is There a Role for Electromagnetic Biophysical Stimulation?. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 353-367.	4.8	51
43	Design, Synthesis, and Pharmacological Characterization of 2-(2-Furanyl)thiazolo[5,4-d]pyrimidine-5,7-diamine Derivatives: New Highly Potent A _{2A} Adenosine Receptor Inverse Agonists with Antinociceptive Activity. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10564-10576.	6.4	49
44	Inhibition of A2A Adenosine Receptor Signaling in Cancer Cells Proliferation by the Novel Antagonist TP455. <i>Frontiers in Pharmacology</i> , 2017, 8, 888.	3.5	48
45	Synthesis and Biological Evaluation of 2-Amino-3-(4-Chlorobenzoyl)-4-[N-(Substituted)Piperazin-1-yl]Thiophenes as Potent Allosteric Enhancers of the A _{2A} Adenosine Receptor. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 5875-5879.	6.4	46
46	Role and Function of A2A and A3 Adenosine Receptors in Patients with Ankylosing Spondylitis, Psoriatic Arthritis and Rheumatoid Arthritis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 697.	4.1	46
47	Multiple sclerosis lymphocytes upregulate A _{2A} adenosine receptors that are antiinflammatory when stimulated. <i>European Journal of Immunology</i> , 2013, 43, 2206-2216.	2.9	45
48	A ₃ Receptors Are Overexpressed in Pleura from Patients with Mesothelioma and Reduce Cell Growth via Akt/Nuclear Factor- κ B Pathway. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 522-530.	5.6	44
49	Endocrine-Disrupting Agents on Healthy Human Tissues. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2000, 86, 24-29.	0.0	43
50	A2A Adenosine Receptors Are Differentially Modulated by Pharmacological Treatments in Rheumatoid Arthritis Patients and Their Stimulation Ameliorates Adjuvant-Induced Arthritis in Rats. <i>PLoS ONE</i> , 2013, 8, e54195.	2.5	43
51	Targeting Adenosine Receptors: A Potential Pharmacological Avenue for Acute and Chronic Pain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8710.	4.1	43
52	Characterization of A2A adenosine receptors in human lymphocyte membranes by [3 H]-SCH 58261 binding. <i>British Journal of Pharmacology</i> , 1997, 122, 386-392.	5.4	41
53	Pulsed Electromagnetic Field Stimulation in Osteogenesis and Chondrogenesis: Signaling Pathways and Therapeutic Implications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 809.	4.1	41
54	The role of adenosine receptors in rheumatoid arthritis. <i>Autoimmunity Reviews</i> , 2010, 10, 61-64.	5.8	40

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73	Exploring the 7-oxo-thiazolo[5,4-d]pyrimidine core for the design of new human adenosine A3 receptor antagonists. Synthesis, molecular modeling studies and pharmacological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2015, 96, 105-121.	5.5	23
74	7-Amino-2-phenylpyrazolo[4,3-d]pyrimidine derivatives: Structural investigations at the 5-position to target human A1 and A2A adenosine receptors. Molecular modeling and pharmacological studies. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 614-627.	5.5	22
75	Expression, pharmacology and functional activity of adenosine A1 receptors in genetic models of Huntington's disease. <i>Neurobiology of Disease</i> , 2014, 71, 193-204.	4.4	22
76	Upregulation of Cortical A2A Adenosine Receptors Is Reflected in Platelets of Patients with Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 1105-1117.	2.6	21
77	Polypharmacological Approaches for CNS Diseases: Focus on Endocannabinoid Degradation Inhibition. <i>Cells</i> , 2022, 11, 471.	4.1	21
78	Adenosine Receptors in Neuropsychiatric Disorders: Fine Regulators of Neurotransmission and Potential Therapeutic Targets. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1219.	4.1	20
79	Current status of A1 adenosine receptor allosteric enhancers. <i>Future Medicinal Chemistry</i> , 2015, 7, 1247-1259.	2.3	19
80	Structural refinement of pyrazolo[4,3-d]pyrimidine derivatives to obtain highly potent and selective antagonists for the human A3 adenosine receptor. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 117-133.	5.5	18
81	Adenosine A2A receptor inhibition reduces synaptic and cognitive hippocampal alterations in Fmr1 KO mice. <i>Translational Psychiatry</i> , 2021, 11, 112.	4.8	18
82	A _{2A} Adenosine Receptor Antagonists in Neurodegenerative Diseases. <i>Current Medicinal Chemistry</i> , 2022, 29, 4138-4151.	2.4	18
83	Thermodynamics of A2B adenosine receptor binding discriminates agonistic from antagonistic behaviour. <i>Biochemical Pharmacology</i> , 2008, 75, 562-569.	4.4	17
84	Synthesis and biological effects of novel 2-amino-3-(4-chlorobenzoyl)-4-substituted thiophenes as allosteric enhancers of the A1 adenosine receptor. <i>European Journal of Medicinal Chemistry</i> , 2013, 67, 409-427.	5.5	17
85	Imidazo[1,2-a]pyrazin-8-amine core for the design of new adenosine receptor antagonists: Structural exploration to target the A3 and A2A subtypes. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 611-628.	5.5	17
86	Pathophysiological Role and Medicinal Chemistry of A2A Adenosine Receptor Antagonists in Alzheimer's Disease. <i>Molecules</i> , 2022, 27, 2680.	3.8	17
87	Double inhibition of cAMP and mTOR signalling may potentiate the reduction of cell growth in ADPKD cells. <i>Clinical and Experimental Nephrology</i> , 2017, 21, 203-211.	1.6	16
88	Modifications on the Amino-3,5-dicyanopyridine Core To Obtain Multifaceted Adenosine Receptor Ligands with Antineuropathic Activity. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6894-6912.	6.4	16
89	P2X ₁ and P2X ₃ ; Purinergic Receptors Differentially Modulate the Inflammatory Response in Human Osteoarthritic Synovial Fibroblasts. <i>Cellular Physiology and Biochemistry</i> , 2010, 25, 325-336.	1.6	15
90	Oxidative/nitrosative stress selectively altered A _{2B} adenosine receptors in chronic obstructive pulmonary disease. <i>FASEB Journal</i> , 2010, 24, 1192-1204.	0.5	15

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91	An Open Question: Is the A2A Adenosine Receptor a Novel Target for Alzheimer's Disease Treatment?. <i>Frontiers in Pharmacology</i> , 2021, 12, 652455.	3.5	15
92	A2A Adenosine Receptor as a Potential Biomarker and a Possible Therapeutic Target in Alzheimer's Disease. <i>Cells</i> , 2021, 10, 2344.	4.1	15
93	Effects of Doxazosin and Propranolol on A2A Adenosine Receptors in Essential Hypertension. <i>Hypertension</i> , 2002, 40, 909-913.	2.7	14
94	Structure-activity relationships of 2-amino-3-aryl-4-[(4-aryl)piperazin-1-yl)methyl]thiophenes. Part 2: Probing the influence of diverse substituents at the phenyl of the arylpiperazine moiety on allosteric enhancer activity at the A1 adenosine receptor. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 996-1007.	3.0	14
95	Exploring the 2- and 5-positions of the pyrazolo[4,3-d]pyrimidin-7-amino scaffold to target human A1 and A2A adenosine receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2794-2808.	3.0	14
96	The role of 5-arylalkylamino- and 5-piperazino- moieties on the 7-aminopyrazolo[4,3-d]pyrimidine core in affecting adenosine A ₁ and A _{2A} receptor affinity and selectivity profiles. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 248-263.	5.2	14
97	Effects of pulsed electromagnetic fields and platelet rich plasma in preventing osteoclastogenesis in an in vitro model of osteolysis. <i>Journal of Cellular Physiology</i> , 2018, 233, 2645-2656.	4.1	14
98	Identification of novel thiazolo[5,4-d]pyrimidine derivatives as human A1 and A2A adenosine receptor antagonists/inverse agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3688-3695.	3.0	14
99	Anxiolytic properties of A1 adenosine receptor PAMs. <i>Oncotarget</i> , 2017, 8, 7216-7217.	1.8	14
100	Synthesis and biological evaluation of a new series of 2-amino-3-aryl thiophene derivatives as agonist allosteric modulators of the A ₁ adenosine receptor. A position-dependent effect study. <i>European Journal of Medicinal Chemistry</i> , 2015, 101, 185-204.	5.5	13
101	A3 Adenosine and P2X7 Purinergic Receptors as New Targets for an Innovative Pharmacological Therapy of Malignant Pleural Mesothelioma. <i>Frontiers in Oncology</i> , 2021, 11, 679285.	2.8	13
102	Synthesis and biological evaluation of novel 2-amino-3-aryl-4-neopentyl-5-substituted thiophene derivatives as allosteric enhancers of the A1 adenosine receptor. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 148-166.	3.0	12
103	Deregulation of Adenosine Receptors in Psoriatic Epidermis: An Option for Therapeutic Treatment. <i>Journal of Investigative Dermatology</i> , 2017, 137, 11-13.	0.7	12
104	Structure-activity relationship studies and pharmacological characterization of N5-heteroarylalkyl-substituted-2-(2-furanyl)thiazolo[5,4-d]pyrimidine-5,7-diamine-based derivatives as inverse agonists at human A2A adenosine receptor. <i>European Journal of Medicinal Chemistry</i> , 2018, 155, 552-561.	5.5	12
105	The Detrimental Action of Adenosine on Glutamate-Induced Cytotoxicity in PC12 Cells Can Be Shifted towards a Neuroprotective Role through A1AR Positive Allosteric Modulation. <i>Cells</i> , 2020, 9, 1242.	4.1	12
106	Structural investigation on thiazolo[5,4-d]pyrimidines to obtain dual-acting blockers of CD73 and adenosine A2A receptor as potential antitumor agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127067.	2.2	12
107	Piperazine- and Piperidine-Containing Thiazolo[5,4-d]pyrimidine Derivatives as New Potent and Selective Adenosine A2A Receptor Inverse Agonists. <i>Pharmaceuticals</i> , 2020, 13, 161.	3.8	11
108	Azetidin-2-one-based small molecules as dual hHDAC6/HDAC8 inhibitors: Investigation of their mechanism of action and impact of dual inhibition profile on cell viability. <i>European Journal of Medicinal Chemistry</i> , 2022, 238, 114409.	5.5	11

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109	Adenosine receptors and human melanoma. <i>Drug Development Research</i> , 2003, 58, 377-385.	2.9	10
110	Signaling pathways involved in anti-inflammatory effects of Pulsed Electromagnetic Field in microglial cells. <i>Cytokine</i> , 2020, 125, 154777.	3.2	10
111	Pulsed Electromagnetic Fields: A Novel Attractive Therapeutic Opportunity for Neuroprotection After Acute Cerebral Ischemia. <i>Neuromodulation</i> , 2022, 25, 1240-1247.	0.8	10
112	Binding thermodynamic characterization of human P2X1 and P2X3 purinergic receptors. <i>Biochemical Pharmacology</i> , 2008, 75, 1198-1208.	4.4	9
113	Amino-3,5-Dicyanopyridines Targeting the Adenosine Receptors. Ranging from Pan Ligands to Combined A1/A2B Partial Agonists. <i>Pharmaceuticals</i> , 2019, 12, 159.	3.8	9
114	Pulsed Electromagnetic Fields Stimulate HIF-1 α -Independent VEGF Release in 1321N1 Human Astrocytes Protecting Neuron-like SH-SY5Y Cells from Oxygen-Glucose Deprivation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8053.	4.1	9
115	L-DOPA promotes striatal dopamine release through D1 receptors and reversal of dopamine transporter. <i>Brain Research</i> , 2021, 1768, 147583.	2.2	9
116	A2A Adenosine Receptor: A Possible Therapeutic Target for Alzheimer's Disease by Regulating NLRP3 Inflammasome Activity?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5056.	4.1	9
117	A1 Adenosine Receptor Partial Agonists and Allosteric Modulators: Advancing Toward the Clinic?. <i>Frontiers in Pharmacology</i> , 2020, 11, 625134.	3.5	8
118	Adenosinergic System Involvement in Ischemic Stroke Patients' Lymphocytes. <i>Cells</i> , 2020, 9, 1072.	4.1	7
119	New Rigid Nicotine Analogues, Carrying a Norbornane Moiety, Are Potent Agonists of $\alpha 7$ and $\alpha 3^*$ Nicotinic Receptors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 1887-1901.	6.4	6
120	Changes in [³ H]UK14304 binding to $\alpha 2$ -adrenoceptors in morphine-dependent guinea-pigs. <i>British Journal of Pharmacology</i> , 1995, 116, 3125-3132.	5.4	5
121	Adenosine A2A receptors of human circulating blood elements. <i>Drug Development Research</i> , 1998, 45, 253-260.	2.9	5
122	Comparison of prazosin, terazosin and tamsulosin: Functional and binding studies in isolated prostatic and vascular human tissues. <i>Prostate</i> , 2001, 47, 231-238.	2.3	5
123	Adenosine and adenosine receptors in rheumatoid arthritis. <i>International Journal of Clinical Rheumatology</i> , 2013, 8, 13-25.	0.3	5
124	Dopamine Transporter, PhosphoSerine129 α -Synuclein and α -Synuclein Levels in Aged LRRK2 G2019S Knock-In and Knock-Out Mice. <i>Biomedicines</i> , 2022, 10, 881.	3.2	5
125	New quinoline derivatives as nicotinic receptor modulators. <i>European Journal of Medicinal Chemistry</i> , 2016, 110, 246-258.	5.5	4
126	Repeated Dosing with NCX1404, a Nitric Oxide-Donating Pregabalin, Re-establishes Normal Nociceptive Responses in Mice with Streptozotocin-Induced Painful Diabetic Neuropathy. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 357, 240-247.	2.5	4

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127	4-Heteroaryl Substituted Amino-3,5-Dicyanopyridines as New Adenosine Receptor Ligands: Novel Insights on Structure-Activity Relationships and Perspectives. <i>Pharmaceuticals</i> , 2022, 15, 478.	3.8	4
128	A2A adenosine receptors are involved in the reparative response of tendon cells to pulsed electromagnetic fields. <i>PLoS ONE</i> , 2020, 15, e0239807.	2.5	2
129	Role of Adenosine Receptors in Clinical Biophysics Based on Pulsed Electromagnetic Fields. , 2018, , 557-580.		1