

Michael F Jarvis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2183376/michael-f-jarvis-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

7,946
citations

47
h-index

88
g-index

108
ext. papers

8,707
ext. citations

5.3
avg, IF

6.38
L-index

#	Paper	IF	Citations
103	Nanostructure of cellulose microfibrils in spruce wood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1195-203	11.5	496
102	A-317491, a novel potent and selective non-nucleotide antagonist of P2X3 and P2X2/3 receptors, reduces chronic inflammatory and neuropathic pain in the rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 17179-84	11.5	390
101	A-803467, a potent and selective Nav1.8 sodium channel blocker, attenuates neuropathic and inflammatory pain in the rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8520-5	11.5	383
100	Structure and properties of pectin gels in plant cell walls. <i>Plant, Cell and Environment</i> , 1984 , 7, 153-164	8.4	314
99	Purine and pyrimidine (P2) receptors as drug targets. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4057-93	8.3	283
98	Direct autoradiographic localization of adenosine A2 receptors in the rat brain using the A2-selective agonist, [3H]CGS 21680. <i>European Journal of Pharmacology</i> , 1989 , 168, 243-6	5.3	272
97	ATP-gated P2X cation-channels. <i>Neuropharmacology</i> , 2009 , 56, 208-15	5.5	267
96	Pharmacological characterization of recombinant human and rat P2X receptor subtypes. <i>European Journal of Pharmacology</i> , 1999 , 376, 127-38	5.3	253
95	Structure of cellulose microfibrils in primary cell walls from collenchyma. <i>Plant Physiology</i> , 2013 , 161, 465-76	6.6	216
94	P2X receptors as drug targets. <i>Molecular Pharmacology</i> , 2013 , 83, 759-69	4.3	205
93	Analgesic profile of intrathecal P2X(3) antisense oligonucleotide treatment in chronic inflammatory and neuropathic pain states in rats. <i>Pain</i> , 2002 , 99, 11-9	8	179
92	Molecular and genetic characterization of a novel pleiotropic tomato-ripening mutant. <i>Plant Physiology</i> , 1999 , 120, 383-90	6.6	172
91	Purinergic and pyrimidinergetic receptors as potential drug targets. <i>Biochemical Pharmacology</i> , 2000 , 59, 1173-85	6	169
90	Structural details of crystalline cellulose from higher plants. <i>Biomacromolecules</i> , 2004 , 5, 1333-9	6.9	159
89	P2X receptor-mediated ionic currents in dorsal root ganglion neurons. <i>Journal of Neurophysiology</i> , 1999 , 82, 1590-8	3.2	143
88	Catalytic depolymerisation of isolated lignins to fine chemicals using a Pt/alumina catalyst: part 1 Impact of the lignin structure. <i>Green Chemistry</i> , 2015 , 17, 1235-1242	10	142
87	Painful purinergic receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 324, 409-15	4.7	141

86	Conformational features of crystal-surface cellulose from higher plants. <i>Plant Journal</i> , 2002 , 30, 721-31	6.9	140
85	The neural-glia purinergic receptor ensemble in chronic pain states. <i>Trends in Neurosciences</i> , 2010 , 33, 48-57	13.3	129
84	Altered middle lamella homogalacturonan and disrupted deposition of (1→5)-alpha-L-arabinan in the pericarp of Cnr, a ripening mutant of tomato. <i>Plant Physiology</i> , 2001 , 126, 210-21	6.6	115
83	A survey of the pectic content of nonlignified monocot cell walls. <i>Plant Physiology</i> , 1988 , 88, 309-14	6.6	115
82	Fine structure in cellulose microfibrils: NMR evidence from onion and quince. <i>Plant Journal</i> , 1998 , 16, 183-90	6.9	113
81	Hydrogen-Bonding Network and OH Stretch Vibration of Cellulose: Comparison of Computational Modeling with Polarized IR and SFG Spectra. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 15138-49	3.4	111
80	Therapeutic potential of adenosine kinase inhibitors. <i>Expert Opinion on Investigational Drugs</i> , 2000 , 9, 551-64	5.9	103
79	Macromolecular biophysics of the plant cell wall: Concepts and methodology. <i>Plant Physiology and Biochemistry</i> , 2000 , 38, 1-13	5.4	102
78	Microfibril diameter in celery collenchyma cellulose: X-ray scattering and NMR evidence. <i>Cellulose</i> , 2007 , 14, 235-246	5.5	100
77	Modulation of BzATP and formalin induced nociception: attenuation by the P2X receptor antagonist, TNP-ATP and enhancement by the P2X(3) allosteric modulator, cibacron blue. <i>British Journal of Pharmacology</i> , 2001 , 132, 259-69	8.6	95
76	A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethyl-benzyl)-urea], a novel and selective transient receptor potential type V1 receptor antagonist, blocks channel activation by vanilloids, heat, and acid. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 314, 400-9	4.7	91
75	Anticonvulsant and antinociceptive actions of novel adenosine kinase inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2005 , 5, 43-58	3	87
74	TNP-ATP, a potent P2X3 receptor antagonist, blocks acetic acid-induced abdominal constriction in mice: comparison with reference analgesics. <i>Pain</i> , 2002 , 96, 99-105	8	87
73	Chain conformation in concentrated pectic gels: evidence from ¹³ C NMR. <i>Carbohydrate Research</i> , 1995 , 275, 131-145	2.9	87
72	How cellulose stretches: synergism between covalent and hydrogen bonding. <i>Biomacromolecules</i> , 2014 , 15, 791-8	6.9	80
71	Plant cell walls: Supramolecular assemblies. <i>Food Hydrocolloids</i> , 2011 , 25, 257-262	10.6	78
70	Alteration of dorsal root ganglion P2X3 receptor expression and function following spinal nerve ligation in the rat. <i>Experimental Brain Research</i> , 2002 , 147, 511-9	2.3	77
69	Contributions of P2X3 homomeric and heteromeric channels to acute and chronic pain. <i>Expert Opinion on Therapeutic Targets</i> , 2003 , 7, 513-22	6.4	77

68	A cross-polarization, magic-angle-spinning, ¹³ C-nuclear-magnetic-resonance study of polysaccharides in sugar beet cell walls. <i>Plant Physiology</i> , 1999 , 119, 1315-22	6.6	74
67	Discovery of 4-amino-5-(3-bromophenyl)-7-(6-morpholino-pyridin-3-yl)pyrido[2,3-d]pyrimidine, an orally active, non-nucleoside adenosine kinase inhibitor. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 2133-8	8.3	70
66	Irreproducibility in Preclinical Biomedical Research: Perceptions, Uncertainties, and Knowledge Gaps. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 290-302	13.2	69
65	Competitive antagonism of recombinant P2X(2/3) receptors by 2 \ddagger 3TO-(2,4,6-trinitrophenyl) adenosine 5 \ddagger triphosphate (TNP-ATP). <i>Molecular Pharmacology</i> , 2000 , 58, 1502-10	4.3	63
64	Structure of native cellulose microfibrils, the starting point for nanocellulose manufacture. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	62
63	Direct observation of cell wall structure in living plant tissues by solid-state C NMR spectroscopy. <i>Plant Physiology</i> , 1990 , 92, 61-5	6.6	58
62	P2X receptor antagonists for pain management: examination of binding and physicochemical properties. <i>Purinergic Signalling</i> , 2012 , 8, 41-56	3.8	57
61	Conformation and mobility of the arabinan and galactan side-chains of pectin. <i>Phytochemistry</i> , 2005 , 66, 1817-24	4	57
60	Relationship of chemical shift to glycosidic conformation in the solid-state ¹³ C NMR spectra of (1 \rightarrow 4)-linked glucose polymers and oligomers: anomeric and related effects. <i>Carbohydrate Research</i> , 1994 , 259, 311-8	2.9	56
59	Update of P2X receptor properties and their pharmacology: IUPHAR Review 30. <i>British Journal of Pharmacology</i> , 2021 , 178, 489-514	8.6	53
58	Aerosol Transmission of SARS-CoV-2: Physical Principles and Implications. <i>Frontiers in Public Health</i> , 2020 , 8, 590041	6	48
57	Contributions of central and peripheral TRPV1 receptors to mechanically evoked and spontaneous firing of spinal neurons in inflamed rats. <i>Journal of Neurophysiology</i> , 2008 , 100, 3158-66	3.2	47
56	Enhanced thermal avoidance in mice lacking the ATP receptor P2X3. <i>Pain</i> , 2005 , 116, 96-108	8	47
55	Cellulose biosynthesis: counting the chains. <i>Plant Physiology</i> , 2013 , 163, 1485-6	6.6	46
54	Biochemical and pharmacological assessment of MAP-kinase signaling along pain pathways in experimental rodent models: a potential tool for the discovery of novel antinociceptive therapeutics. <i>Biochemical Pharmacology</i> , 2014 , 87, 390-8	6	45
53	5-(3-Bromophenyl)-7-(6-morpholin-4-ylpyridin-3-yl)pyrido[2,3-d]pyrimidin-4-ylamine: structure-activity relationships of 7-substituted heteroaryl analogs as non-nucleoside adenosine kinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 3705-20	3.4	44
52	Analgesic and anti-inflammatory effects of A-286501, a novel orally active adenosine kinase inhibitor. <i>Pain</i> , 2002 , 96, 107-18	8	43
51	A peripherally acting, selective T-type calcium channel blocker, ABT-639, effectively reduces nociceptive and neuropathic pain in rats. <i>Biochemical Pharmacology</i> , 2014 , 89, 536-44	6	42

50	Cell-cell adhesion in fresh sugar-beet root parenchyma requires both pectin esters and calcium cross-links. <i>Physiologia Plantarum</i> , 2006 , 126, 243-256	4.6	41
49	Structure of cellulose-deficient secondary cell walls from the irx3 mutant of Arabidopsis thaliana. <i>Phytochemistry</i> , 2002 , 61, 7-14	4	40
48	Catalytic depolymerisation of isolated lignin to fine chemicals: part 2 process optimisation. <i>Catalysis Science and Technology</i> , 2016 , 6, 4142-4150	5.5	34
47	Structure and spacing of cellulose microfibrils in woody cell walls of dicots. <i>Cellulose</i> , 2014 , 21, 3887-3895	5.5	34
46	Interconversion of the Ialpha and Ibeta crystalline forms of cellulose by bending. <i>Carbohydrate Research</i> , 2000 , 325, 150-4	2.9	33
45	Solid state 13C-n.m.r. spectra of Vigna primary cell walls and their polysaccharide components. <i>Carbohydrate Research</i> , 1990 , 201, 327-333	2.9	32
44	Diffraction evidence for the structure of cellulose microfibrils in bamboo, a model for grass and cereal celluloses. <i>BMC Plant Biology</i> , 2015 , 15, 153	5.3	31
43	Hydration effects on spacing of primary-wall cellulose microfibrils: a small angle X-ray scattering study. <i>Cellulose</i> , 2007 , 14, 401-408	5.5	31
42	Isolation of high quality lignin as a by-product from ammonia percolation pretreatment of poplar wood. <i>Bioresource Technology</i> , 2014 , 162, 236-42	11	30
41	Purinergic control of neuropathic pain. <i>Drug Development Research</i> , 2006 , 67, 376-388	5.1	30
40	Site and event specific increase of striatal adenosine release by adenosine kinase inhibition in rats. <i>Neuroscience Letters</i> , 1999 , 266, 93-6	3.3	29
39	Recent developments in the discovery of novel adenosine kinase inhibitors: mechanism of action and therapeutic potential. <i>CNS Neuroscience & Therapeutics</i> , 2001 , 7, 415-32		28
38	Cell-wall structure and anisotropy in procuste, a cellulose synthase mutant of Arabidopsis thaliana. <i>Planta</i> , 2006 , 224, 438-48	4.7	28
37	A-1048400 is a novel, orally active, state-dependent neuronal calcium channel blocker that produces dose-dependent antinociception without altering hemodynamic function in rats. <i>Biochemical Pharmacology</i> , 2012 , 83, 406-18	6	27
36	Comparison of the ability of adenosine kinase inhibitors and adenosine receptor agonists to attenuate thermal hyperalgesia and reduce motor performance in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2002 , 73, 573-81	3.9	26
35	Wood shrinkage: influence of anatomy, cell wall architecture, chemical composition and cambial age. <i>European Journal of Wood and Wood Products</i> , 2010 , 68, 87-94	2.1	25
34	[3H]A-317491, a novel high-affinity non-nucleotide antagonist that specifically labels human P2X2/3 and P2X3 receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 310, 407-16	4.7	25
33	4-amino-5-aryl-6-arylethynylpyrimidines: structure-activity relationships of non-nucleoside adenosine kinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 1586-605	3.4	24

32	Crystal structures of human adenosine kinase inhibitor complexes reveal two distinct binding modes. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 6726-31	8.3	24
31	2 \uparrow 3FO-(2,4,6-trinitrophenyl)-ATP and A-317491 are competitive antagonists at a slowly desensitizing chimeric human P2X3 receptor. <i>British Journal of Pharmacology</i> , 2003 , 140, 202-10	8.6	24
30	Polarized vibrational spectroscopy of fiber polymers: hydrogen bonding in cellulose II. <i>Biomacromolecules</i> , 2003 , 4, 1589-95	6.9	24
29	Turgor pressure, membrane tension and the control of exocytosis in higher plants. <i>Plant, Cell and Environment</i> , 2000 , 23, 999-1003	8.4	24
28	Electron-energy-loss spectroscopic imaging of calcium and nitrogen in the cell walls of apple fruits. <i>Planta</i> , 1999 , 208, 438-443	4.7	24
27	Solid-State ¹³ C NMR of Cell Walls in Wheat Bran. <i>Journal of Agricultural and Food Chemistry</i> , 1997 , 45, 117-119	5.7	23
26	Plant cell walls: supramolecular assembly, signalling and stress. <i>Structural Chemistry</i> , 2009 , 20, 245-253	1.8	22
25	Measuring compression wood severity in spruce. <i>Wood Science and Technology</i> , 2009 , 43, 279-290	2.5	22
24	Spatial relationships between polymers in Sitka spruce: Proton spin-diffusion studies. <i>Holzforschung</i> , 2006 , 60, 665-673	2	21
23	Solid-state ¹³ C NMR study of palm trunk cell walls. <i>Journal of the Science of Food and Agriculture</i> , 1994 , 64, 487-491	4.3	19
22	Lignified and non-lignified cell walls from kale. <i>Plant Science</i> , 1988 , 57, 83-90	5.3	19
21	Potent desensitization of human P2X3 receptors by diadenosine polyphosphates. <i>European Journal of Pharmacology</i> , 2002 , 435, 135-42	5.3	15
20	Hemicellulose binding and the spacing of cellulose microfibrils in spruce wood. <i>Cellulose</i> , 2020 , 27, 4249-4254	5.9	14
19	Therapeutic potential of adenosine kinase inhibition-Revisited. <i>Pharmacology Research and Perspectives</i> , 2019 , 7, e00506	3.1	13
18	Optimization of ADME Properties for Sulfonamides Leading to the Discovery of a T-Type Calcium Channel Blocker, ABT-639. <i>ACS Medicinal Chemistry Letters</i> , 2015 , 6, 641-4	4.3	11
17	Characterization and comparison of rat monosodium iodoacetate and medial meniscal tear models of osteoarthritic pain. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 2109	3.8	11
16	Distribution of extractives in Sitka spruce (<i>Picea sitchensis</i>) grown in the northern UK. <i>European Journal of Wood and Wood Products</i> , 2013 , 71, 697-704	2.1	11
15	Comparative analysis of inactivated-state block of N-type (Ca(v)2.2) calcium channels. <i>Inflammation Research</i> , 2011 , 60, 683-93	7.2	9

14	Adenosine kinase: A key regulator of purinergic physiology. <i>Biochemical Pharmacology</i> , 2021 , 187, 114326		7
13	Molecular xylem cell wall structure of an inclined <i>Cycas micronesica</i> stem, a tropical gymnosperm. <i>IAWA Journal</i> , 2010 , 31, 3-11	2.3	6
12	Geoffery Burnstock's influence on the evolution of P2X3 receptor pharmacology. <i>Purinergic Signalling</i> , 2021 , 17, 33-39	3.8	5
11	Thickness-dependent stiffness of wood: potential mechanisms and implications. <i>Holzforschung</i> , 2020 , 74, 1079-1087	2	4
10	Nanostructural deformation of high-stiffness spruce wood under tension. <i>Scientific Reports</i> , 2021 , 11, 453	4.9	3
9	Characterization of the triazine, T4, a representative from a novel series of CaV2 inhibitors with strong state-dependence, poor use-dependence, and distinctively fast kinetics. <i>European Journal of Pharmacology</i> , 2014 , 745, 234-42	5.3	2
8	P2X receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019 , 2019,	1.7	2
7	Chemical and Mechanical Differences between Historic and Modern Scots Pine Wood. <i>Heritage</i> , 2020 , 3, 116-127	1.6	1
6	Collenchyma 2001 ,		1
5	Drying of virus-containing particles: modelling effects of droplet origin and composition. <i>Journal of Environmental Health Science & Engineering</i> , 2021 , 19, 1-10	2.9	1
4	FTIR Measurement of Cellulose Microfibril Angle in Historic Scots Pine Wood and Its Use to Detect Fungal Decay. <i>Studies in Conservation</i> , 2018 , 63, 375-382	0.6	1
3	Comparative Bioavailability of Two Formulations of Biopharmaceutical Classification System (BCS) Class IV Drugs: A Case Study of Lopinavir/Ritonavir. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 3963-3968	3.0	0
2	A Patient-Centric Model for Discontinuation of a Single-Sourced Approved Drug. <i>Clinical Pharmacology and Therapeutics</i> , 2019 , 106, 494-497	6.1	
1	Characterization of the Cardiovascular Profile of Two Novel Ca ²⁺ Channels Blockers. <i>FASEB Journal</i> , 2011 , 25, 1021.14	0.9	