

Michael F Jarvis

List of Publications by Year in Descending Order

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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	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
102	Adenosine kinase: A key regulator of purinergic physiology. <i>Biochemical Pharmacology</i> , 2021 , 187, 114326	4.1	7
101	Geoffery Burnstock's influence on the evolution of P2X3 receptor pharmacology. <i>Purinergic Signalling</i> , 2021 , 17, 33-39	3.8	5
100	Update of P2X receptor properties and their pharmacology: IUPHAR Review 30. <i>British Journal of Pharmacology</i> , 2021 , 178, 489-514	8.6	53
99	Nanostructural deformation of high-stiffness spruce wood under tension. <i>Scientific Reports</i> , 2021 , 11, 453	4.9	3
98	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	3.9	0
97	Hemicellulose binding and the spacing of cellulose microfibrils in spruce wood. <i>Cellulose</i> , 2020 , 27, 4249-4254	5.3	14
96	Chemical and Mechanical Differences between Historic and Modern Scots Pine Wood. <i>Heritage</i> , 2020 , 3, 116-127	1.6	1
95	Thickness-dependent stiffness of wood: potential mechanisms and implications. <i>Holzforschung</i> , 2020 , 74, 1079-1087	2	4
94	Aerosol Transmission of SARS-CoV-2: Physical Principles and Implications. <i>Frontiers in Public Health</i> , 2020 , 8, 590041	6	48
93	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
92	Therapeutic potential of adenosine kinase inhibition-Revisited. <i>Pharmacology Research and Perspectives</i> , 2019 , 7, e00506	3.1	13
91	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
90	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
89	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
88	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
87	Irreproducibility in Preclinical Biomedical Research: Perceptions, Uncertainties, and Knowledge Gaps. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 290-302	13.2	69

86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	How cellulose stretches: synergism between covalent and hydrogen bonding. <i>Biomacromolecules</i> , 2014 , 15, 791-8	6.9	80
78	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
77	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
76	Structure and spacing of cellulose microfibrils in woody cell walls of dicots. <i>Cellulose</i> , 2014 , 21, 3887-3895	5.5	34
75	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
74	Structure of cellulose microfibrils in primary cell walls from collenchyma. <i>Plant Physiology</i> , 2013 , 161, 465-76	6.6	216
73	Cellulose biosynthesis: counting the chains. <i>Plant Physiology</i> , 2013 , 163, 1485-6	6.6	46
72	P2X receptors as drug targets. <i>Molecular Pharmacology</i> , 2013 , 83, 759-69	4.3	205
71	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
70	P2X receptor antagonists for pain management: examination of binding and physicochemical properties. <i>Purinergic Signalling</i> , 2012 , 8, 41-56	3.8	57
69	Plant cell walls: Supramolecular assemblies. <i>Food Hydrocolloids</i> , 2011 , 25, 257-262	10.6	78

68	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
67	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
66	Characterization of the Cardiovascular Profile of Two Novel Ca ²⁺ Channels Blockers. <i>FASEB Journal</i> , 2011 , 25, 1021.14	0.9	
65	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
64	The neural-glia purinergic receptor ensemble in chronic pain states. <i>Trends in Neurosciences</i> , 2010 , 33, 48-57	13.3	129
63	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
62	Plant cell walls: supramolecular assembly, signalling and stress. <i>Structural Chemistry</i> , 2009 , 20, 245-253	1.8	22
61	Measuring compression wood severity in spruce. <i>Wood Science and Technology</i> , 2009 , 43, 279-290	2.5	22
60	ATP-gated P2X cation-channels. <i>Neuropharmacology</i> , 2009 , 56, 208-15	5.5	267
59	Painful purinergic receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 324, 409-15	4.7	141
58	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
57	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
56	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
55	Microfibril diameter in celery collenchyma cellulose: X-ray scattering and NMR evidence. <i>Cellulose</i> , 2007 , 14, 235-246	5.5	100
54	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
53	Purinergic control of neuropathic pain. <i>Drug Development Research</i> , 2006 , 67, 376-388	5.1	30
52	Spatial relationships between polymers in Sitka spruce: Proton spin-diffusion studies. <i>Holzforschung</i> , 2006 , 60, 665-673	2	21
51	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

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	Cell-wall structure and anisotropy in procuste, a cellulose synthase mutant of <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006 , 224, 438-48	4.7	28
48	Enhanced thermal avoidance in mice lacking the ATP receptor P2X3. <i>Pain</i> , 2005 , 116, 96-108	8	47
47	Conformation and mobility of the arabinan and galactan side-chains of pectin. <i>Phytochemistry</i> , 2005 , 66, 1817-24	4	57
46	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
45	Anticonvulsant and antinociceptive actions of novel adenosine kinase inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2005 , 5, 43-58	3	87
44	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
43	[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
42	Structural details of crystalline cellulose from higher plants. <i>Biomacromolecules</i> , 2004 , 5, 1333-9	6.9	159
41	2 μ M 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
40	Polarized vibrational spectroscopy of fiber polymers: hydrogen bonding in cellulose II. <i>Biomacromolecules</i> , 2003 , 4, 1589-95	6.9	24
39	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
38	Potent desensitization of human P2X3 receptors by diadenosine polyphosphates. <i>European Journal of Pharmacology</i> , 2002 , 435, 135-42	5.3	15
37	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
36	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
35	Conformational features of crystal-surface cellulose from higher plants. <i>Plant Journal</i> , 2002 , 30, 721-31	6.9	140
34	Structure of cellulose-deficient secondary cell walls from the <i>irx3</i> mutant of <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2002 , 61, 7-14	4	40
33	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

32	Purine and pyrimidine (P2) receptors as drug targets. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4057-93	8.3	283
31	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
30	Analgesic and anti-inflammatory effects of A-286501, a novel orally active adenosine kinase inhibitor. <i>Pain</i> , 2002 , 96, 107-18	8	43
29	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
28	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
27	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
26	Altered middle lamella homogalacturonan and disrupted deposition of (1 \rightarrow 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
25	Collenchyma 2001 ,		1
24	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
23	Interconversion of the alpha and beta crystalline forms of cellulose by bending. <i>Carbohydrate Research</i> , 2000 , 325, 150-4	2.9	33
22	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
21	Macromolecular biophysics of the plant cell wall: Concepts and methodology. <i>Plant Physiology and Biochemistry</i> , 2000 , 38, 1-13	5.4	102
20	Purinergic and pyrimidinergetic receptors as potential drug targets. <i>Biochemical Pharmacology</i> , 2000 , 59, 1173-85	6	169
19	Competitive antagonism of recombinant P2X(2/3) receptors by 2 β -[3-(2,4,6-trinitrophenyl)adenosine 5 β -triphosphate (TNP-ATP). <i>Molecular Pharmacology</i> , 2000 , 58, 1502-10	4.3	63
18	Therapeutic potential of adenosine kinase inhibitors. <i>Expert Opinion on Investigational Drugs</i> , 2000 , 9, 551-64	5.9	103
17	P2X receptor-mediated ionic currents in dorsal root ganglion neurons. <i>Journal of Neurophysiology</i> , 1999 , 82, 1590-8	3.2	143
16	Molecular and genetic characterization of a novel pleiotropic tomato-ripening mutant. <i>Plant Physiology</i> , 1999 , 120, 383-90	6.6	172
15	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

14	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
13	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
12	Pharmacological characterization of recombinant human and rat P2X receptor subtypes. <i>European Journal of Pharmacology</i> , 1999 , 376, 127-38	5.3	253
11	Fine structure in cellulose microfibrils: NMR evidence from onion and quince. <i>Plant Journal</i> , 1998 , 16, 183-90	6.9	113
10	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
9	Chain conformation in concentrated pectic gels: evidence from ¹³ C NMR. <i>Carbohydrate Research</i> , 1995 , 275, 131-145	2.9	87
8	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
7	Relationship of chemical shift to glycosidic conformation in the solid-state ¹³ C NMR spectra of (1→4)-linked glucose polymers and oligomers: anomeric and related effects. <i>Carbohydrate Research</i> , 1994 , 259, 311-8	2.9	56
6	Solid state ¹³ C-n.m.r. spectra of Vigna primary cell walls and their polysaccharide components. <i>Carbohydrate Research</i> , 1990 , 201, 327-333	2.9	32
5	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
4	Direct autoradiographic localization of adenosine A2 receptors in the rat brain using the A2-selective agonist, [³ H]CGS 21680. <i>European Journal of Pharmacology</i> , 1989 , 168, 243-6	5.3	272
3	Lignified and non-lignified cell walls from kale. <i>Plant Science</i> , 1988 , 57, 83-90	5.3	19
2	A survey of the pectic content of nonlignified monocot cell walls. <i>Plant Physiology</i> , 1988 , 88, 309-14	6.6	115
1	Structure and properties of pectin gels in plant cell walls. <i>Plant, Cell and Environment</i> , 1984 , 7, 153-164	8.4	314