

# Ian M Jamie

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

650  
citations

623734

14  
h-index

610901

24  
g-index

43  
all docs

43  
docs citations

43  
times ranked

847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Air-land exchanges of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O measured by FTIR spectrometry and micrometeorological techniques. <i>Atmospheric Environment</i> , 2002, 36, 1833-1842.	4.1	79
2	Methane emission from free-ranging sheep: a comparison of two measurement methods. <i>Atmospheric Environment</i> , 1999, 33, 1357-1365.	4.1	57
3	Evolution of isoprene emission capacity in plants. <i>Trends in Plant Science</i> , 2014, 19, 439-446.	8.8	46
4	A fluorescence-based assay for indoleamine 2,3-dioxygenase. <i>Analytical Biochemistry</i> , 2006, 349, 96-102.	2.4	41
5	Chemical characterisation of semi-volatile and aerosol compounds from the photooxidation of toluene and NO <sub>x</sub> . <i>Atmospheric Environment</i> , 2014, 83, 237-244.	4.1	35
6	Advancing Chemistry by Enhancing Learning in the Laboratory (ACELL): a model for providing professional and personal development and facilitating improved student laboratory learning outcomes. <i>Chemistry Education Research and Practice</i> , 2007, 8, 232-254.	2.5	31
7	Verifying Inventory Predictions of Animal Methane Emissions with Meteorological Measurements. <i>Boundary-Layer Meteorology</i> , 2000, 96, 187-209.	2.3	28
8	Development, Evaluation and Use of a Student Experience Survey in Undergraduate Science Laboratories: The Advancing Science by Enhancing Learning in the Laboratory Student Laboratory Learning Experience Survey. <i>International Journal of Science Education</i> , 2015, 37, 1795-1814.	1.9	27
9	Increased Ratio of Electron Transport to Net Assimilation Rate Supports Elevated Isoprenoid Emission Rate in Eucalypts under Drought. <i>Plant Physiology</i> , 2014, 166, 1059-1072.	4.8	25
10	Remote open-path cavity-ringdown spectroscopic sensing of trace gases in air, based on distributed passive sensors linked by km-long optical fibers. <i>Optics Express</i> , 2014, 22, 13170.	3.4	24
11	Real-time field measurements of stable isotopes in water and CO <sub>2</sub> by Fourier transform infrared spectrometry. <i>Isotopes in Environmental and Health Studies</i> , 2006, 42, 9-20.	1.0	22
12	Solvation and ion association in solutions containing oxyanions. <i>Faraday Discussions of the Chemical Society</i> , 1988, 85, 269.	2.2	19
13	Physicochemical characterization of dodecylphosphocholine/palmitoyllysophosphatidic acid/myelin basic protein complexes. <i>Biochemistry</i> , 1991, 30, 6509-6516.	2.5	15
14	Two-dimensional caesium-ammonia solid solutions in C <sub>28</sub> Cs(NH <sub>3</sub> ) <sub>x</sub> . <i>Molecular Physics</i> , 1992, 76, 173-200.	1.7	14
15	Raspberry Ketone Trifluoroacetate, a New Attractant for the Queensland Fruit Fly, <i>Bactrocera Tryoni</i> (Froggatt). <i>Journal of Chemical Ecology</i> , 2016, 42, 156-162.	1.8	14
16	Attraction and Electrophysiological Response to Identified Rectal Gland Volatiles in <i>Bactrocera frauenfeldi</i> (Schiner). <i>Molecules</i> , 2020, 25, 1275.	3.8	14
17	Species-specific photorespiratory rate, drought tolerance and isoprene emission rate in plants. <i>Plant Signaling and Behavior</i> , 2015, 10, e990830.	2.4	13
18	Sampling technique biases in the analysis of fruit fly volatiles: a case study of Queensland fruit fly. <i>Scientific Reports</i> , 2020, 10, 19799.	3.3	13

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19	Raspberry Ketone Analogs: Vapour Pressure Measurements and Attractiveness to Queensland Fruit Fly, <i>Bactrocera tryoni</i> (Froggatt) (Diptera: Tephritidae). <i>PLoS ONE</i> , 2016, 11, e0155827.	2.5	13
20	Rectal Gland Chemistry, Volatile Emissions, and Antennal Responses of Male and Female Banana Fruit Fly, <i>Bactrocera musae</i> . <i>Insects</i> , 2020, 11, 32.	2.2	12
21	Evaluation of the SAPRC-07 mechanism against CSIRO smog chamber data. <i>Atmospheric Environment</i> , 2010, 44, 1707-1713.	4.1	10
22	Development of a new smog chamber for studying the impact of different UV lamps on SAPRC chemical mechanism predictions and aerosol formation. <i>Environmental Chemistry</i> , 2018, 15, 171.	1.5	9
23	Rectal gland exudates and emissions of <i>Bactrocera bryoniae</i> : chemical identification, electrophysiological and pheromonal functions. <i>Chemoecology</i> , 2021, 31, 137-148.	1.1	9
24	Effects of acyl chain length on the conformation of myelin basic protein bound to lysolipid micelles. <i>Biophysical Chemistry</i> , 1992, 45, 61-77.	2.8	8
25	Modelling the photooxidation of ULP, E5 and E10 in the CSIRO smog chamber. <i>Atmospheric Environment</i> , 2010, 44, 5375-5382.	4.1	8
26	The <i>River of Learning</i>: building relationships in a university, school and community Indigenous widening participation collaboration. <i>Higher Education Research and Development</i> , 2017, 36, 1490-1502.	2.9	8
27	Hydrolysis of Queensland Fruit Fly, <i>Bactrocera tryoni</i> (Froggatt), Attractants: Kinetics and Implications for Biological Activity. <i>Australian Journal of Chemistry</i> , 2016, 69, 1162.	0.9	7
28	Systematic Modification of Zingerone Reveals Structural Requirements for Attraction of <i>Jarvis</i> ™s Fruit Fly. <i>Scientific Reports</i> , 2019, 9, 19332.	3.3	7
29	Rotational tunnelling of ammonia in two-dimensional metal-ammonia solutions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 73-81.	1.7	6
30	Interaction of Phosphotungstate Ions with Phospholipid Monolayers: A Synchrotron X-ray Study. <i>Langmuir</i> , 1995, 11, 281-285.	3.5	6
31	Assessing the Assessments: Development of a Tool To Evaluate Assessment Items in Chemistry According to Learning Outcomes. <i>ACS Symposium Series</i> , 2016, , 225-244.	0.5	5
32	Improving the Assessment of Transferable Skills in Chemistry Through Evaluation of Current Practice. , 2019, , 255-274.		4
33	Zingerone in the Flower of <i>Passiflora maliformis</i> Attracts an Australian Fruit Fly, <i>Bactrocera jarvisi</i> (Tryon). <i>Molecules</i> , 2020, 25, 2877.	3.8	4
34	National Indigenous Science Education Program (NISEP): Outreach Strategies That Facilitate Inclusion. <i>Journal of Chemical Education</i> , 2022, 99, 245-251.	2.3	4
35	Electroantennogram responses of six <i>Bactrocera</i> and <i>Zeugodacus</i> species to raspberry ketone analogues. <i>Environmental Chemistry</i> , 2017, 14, 378.	1.5	3
36	Vapor Pressures and Thermodynamic Properties of Phenylpropanoid and Phenylbutanoid Attractants of Male <i>Bactrocera</i> , <i>Dacus</i> , and <i>Zeugodacus</i> Fruit Flies at Ambient Temperatures. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 9654-9663.	5.2	3

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37	What Makes a Good Laboratory Learning Exercise? Student Feedback from the ACELL Project. , 2009, , 363-376.		3
38	Magnetic ordering in two dimensional manganese stearate films: a nuclear orientation study. Solid State Communications, 1998, 109, 239-242.	1.9	2
39	Electrophysiological Responses of <i>Bactrocera kraussi</i> (Hardy) (Tephritidae) to Rectal Gland Secretions and Headspace Volatiles Emitted by Conspecific Males and Females. Molecules, 2021, 26, 5024.	3.8	2
40	Thermal and collective diffusion in polymer solutions: A small angle light scattering study. Optics Communications, 1985, 56, 255-260.	2.1	0
41	FTIR in the Paddock: Trace gas soil flux measurements using FTIR spectroscopy. , 1998, , .		0
42	Remote optical sensing of trace gases in air by fiber-coupled open-path cavity-ringdown spectroscopy. , 2014, , .		0
43	Fiber-optical coupling in agricultural and environmental sensing, based on open-path cavity ringdown spectroscopy. , 2016, , .		0