

# Xavier A Conlan

## List of Publications by Year in descending order

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100  
papers

2,253  
citations

218677

26  
h-index

265206

42  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2918  
citing authors

#	ARTICLE	IF	CITATIONS
1	A preliminary evaluation of the utility of insects and algae for PMI estimation in confined, still-water environments. Australian Journal of Forensic Sciences, 2023, 55, 129-140.	1.2	3
2	The effects of hydrated lime and bleach on carrion decomposition and associated insect succession. Australian Journal of Forensic Sciences, 2023, 55, 492-510.	1.2	0
3	Evaluation of the anticancer potential of secondary metabolites from <i>Pseudevernia furfuracea</i> based on epidermal growth factor receptor inhibition. Natural Product Research, 2022, 36, 6439-6442.	1.8	2
4	Atomically-thin Schottky-like photo-electrocatalytic cross-flow membrane reactors for ultrafast remediation of persistent organic pollutants. Water Research, 2022, 218, 118519.	11.3	26
5	The cyclic nature of soil chemistry: Forensic analysis with the aid of ultra-high performance liquid chromatography. Talanta Open, 2022, 6, 100126.	3.7	4
6	Investigation into the prevalence of background DNA on flooring within houses and its transfer to a contacting surface. Forensic Science International, 2021, 318, 110563.	2.2	18
7	Lichen allelopathy: a new hope for limiting chemical herbicide and pesticide use. Biocontrol Science and Technology, 2021, 31, 773-796.	1.3	8
8	Impact of surface roughness on the deposition of saliva and fingerprint residue on non-porous substrates. Forensic Chemistry, 2021, 23, 100318.	2.8	16
9	Metabolite Profiling of the Indian Food Spice Lichen, <i>Pseudevernia furfuracea</i> Combined With Optimised Extraction Methodology to Obtain Bioactive Phenolic Compounds. Frontiers in Pharmacology, 2021, 12, 629695.	3.5	5
10	Simultaneous determination of 10 new psychoactive piperazine derivatives in urine using ultrasound-assisted low-density solvent dispersive liquid-liquid microextraction combined with gas chromatography-tandem mass spectrometry. Journal of Forensic Sciences, 2021, 66, 748-757.	1.6	1
11	Presentation methodologies: an assessment for forensic signature analysis. Australian Journal of Forensic Sciences, 2020, 52, 569-578.	1.2	0
12	Case studies on illegal production of ephedrine/pseudoephedrine within Fujian China. Forensic Science International, 2020, 312, 110326.	2.2	6
13	Fungi as a Potential Source of Pigments: Harnessing Filamentous Fungi. Frontiers in Chemistry, 2020, 8, 369.	3.6	102
14	Extraction and Determination of Morphine Present on the Surface of Australian Food Grade Poppy Seeds Using Acidic Potassium Permanganate Chemiluminescence Detection. Food Analytical Methods, 2020, 13, 1159-1165.	2.6	11
15	Recent Advancement of Biosensor Technology for the Detection of Microcystin-LR. Bulletin of the Chemical Society of Japan, 2020, 93, 637-646.	3.2	35
16	The identification of synthetic cannabinoids surface coated on herbal substrates using solid-state nuclear magnetic resonance spectroscopy. Analytica Chimica Acta, 2020, 1104, 105-109.	5.4	11
17	Application of a digital stringing protocol on buried fabrics. Australian Journal of Forensic Sciences, 2019, 51, S145-S148.	1.2	1
18	Why do street signs taste so good? A community ballistics project. Australian Journal of Forensic Sciences, 2019, 51, S172-S175.	1.2	0

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19	â€Cathodicâ€™ electrochemiluminescence of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> and tri- <i>n</i> -propylamine confirmed as emission at the counter electrode. Chemical Communications, 2019, 55, 7081-7084.	4.1	16
20	Forensic undergraduate cohort; job readiness curricula. Australian Journal of Forensic Sciences, 2019, 51, S243-S246.	1.2	2
21	Determination of morphine in culinary poppy seed tea extractions using high performance liquid chromatography with chemiluminescence detection. Australian Journal of Forensic Sciences, 2019, 51, S225-S228.	1.2	5
22	The presence of background DNA on common entry points to homes. Forensic Science International: Genetics Supplement Series, 2019, 7, 784-786.	0.3	7
23	Background DNA on flooring: The effect of cleaning. Forensic Science International: Genetics Supplement Series, 2019, 7, 787-790.	0.3	5
24	A simple device for rapid quantification of cell number from equine buccal swab samples. Analytical Methods, 2018, 10, 1523-1528.	2.7	1
25	Growth kinetics and withanolide production in novel transformed roots of <i>Withania somnifera</i> and measurement of their antioxidant potential using chemiluminescence. Plant Cell, Tissue and Organ Culture, 2018, 132, 479-495.	2.3	9
26	Extraction, identification and detection of synthetic cannabinoids found pre-ban in herbal products in Victoria, Australia. Forensic Chemistry, 2018, 7, 19-25.	2.8	5
27	Differential regulation of cellular stress responses by the endoplasmic reticulum-resident Selenoprotein S (Seps1) in proliferating myoblasts versus myotubes. Physiological Reports, 2018, 6, e13926.	1.7	6
28	Deficiency of selenoprotein S, an endoplasmic reticulum resident oxidoreductase, impairs the contractile function of fast-twitch hindlimb muscles. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R380-R396.	1.8	17
29	Application of 2D-HPLC coupled with principal component analysis to study an industrial opiate processing stream. Talanta, 2017, 166, 119-125.	5.5	7
30	Electrochemical Evidences of Chiral Molecule Recognition Using L/D-Cysteine Modified Gold Electrodes. Electrochimica Acta, 2017, 237, 22-28.	5.2	33
31	Elite hairy roots of <i>Ocimum basilicum</i> as a new source of rosmarinic acid and antioxidants. Plant Cell, Tissue and Organ Culture, 2016, 126, 19-32.	2.3	47
32	Self-Assembled Coreâ€™Satellite Gold Nanoparticle Networks for Ultrasensitive Detection of Chiral Molecules by Recognition Tunneling Current. ACS Nano, 2016, 10, 5096-5103.	14.6	47
33	Elemental and molecular profiling of licit, illicit, and niche tobacco. Forensic Science International, 2016, 266, 549-554.	2.2	4
34	In-silico optimisation of two-dimensional high performance liquid chromatography for the determination of Australian methamphetamine seizure samples. Forensic Science International, 2016, 266, 511-516.	2.2	10
35	Rhizophagus irregularis as an elicitor of rosmarinic acid and antioxidant production by transformed roots of <i>Ocimum basilicum</i> in an in vitro co-culture system. Mycorrhiza, 2016, 26, 919-930.	2.8	27
36	Controllable graphene oxide mediated efficient electron transfer pathways across self-assembly monolayers: A new class of graphene based electrodes. Electrochimica Acta, 2016, 210, 539-547.	5.2	8

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37	Overcoming solvent mismatch limitations in 2D-HPLC with temperature programming of isocratic mobile phases. <i>Analytical Methods</i> , 2016, 8, 1293-1298.	2.7	9
38	Blind column selection protocol for two-dimensional high performance liquid chromatography. <i>Talanta</i> , 2016, 154, 85-91.	5.5	5
39	Influence of base on nitro-aldol (Henry) reaction products for alternative clandestine pathways. <i>Australian Journal of Forensic Sciences</i> , 2016, 48, 684-693.	1.2	3
40	Acidic Potassium Permanganate Chemiluminescence for the Determination of Antioxidant Potential in Three Cultivars of <i>Ocimum basilicum</i> . <i>Plant Foods for Human Nutrition</i> , 2016, 71, 72-80.	3.2	19
41	Multiplexed Detection: Fast Comprehensive Sample Analysis of Tobacco Leaf Extracts Using HPLC with AFT Columns. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015, 38, 1753-1758.	1.0	1
42	Assessing the detectability of antioxidants in two-dimensional high performance liquid chromatography. <i>Journal of Separation Science</i> , 2015, 38, 1642-1648.	2.5	3
43	Screening of cannabinoids in industrial-grade hemp using two-dimensional liquid chromatography coupled with acidic potassium permanganate chemiluminescence detection. <i>Journal of Separation Science</i> , 2015, 38, 2024-2032.	2.5	31
44	Improving quantification using curtain flow chromatography columns in the analysis of labile compounds: A study on amino acids. <i>Journal of Chromatography A</i> , 2015, 1375, 76-81.	3.7	4
45	Off-line two-dimensional liquid chromatography for metabolomics: an example using <i>Agaricus bisporus</i> mushrooms exposed to UV irradiation. <i>Metabolomics</i> , 2015, 11, 939-951.	3.0	19
46	Development of a resin based silica monolithic column encapsulation. <i>Analytical Methods</i> , 2015, 7, 4908-4911.	2.7	1
47	In vitro and in situ screening systems for morphological and phytochemical analysis of <i>Withania somnifera</i> germplasms. <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 120, 1191-1202.	2.3	9
48	A non-destructive test to assess the axial heterogeneity of in situ modified monoliths for HPLC. <i>Analytical Methods</i> , 2015, 7, 7177-7185.	2.7	7
49	Protocols for finding the most orthogonal dimensions for two-dimensional high performance liquid chromatography. <i>Talanta</i> , 2015, 134, 402-408.	5.5	23
50	Determination of neurotransmitters and their metabolites using one- and two-dimensional liquid chromatography with acidic potassium permanganate chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5669-5676.	3.7	20
51	Improving peak shapes with counter gradients in two-dimensional high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1337, 147-154.	3.7	28
52	Investigating retention characteristics of a mixed-mode stationary phase and the enhancement of monolith selectivity for high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2014, 37, 1937-1943.	2.5	9
53	A Novel <i>in Vitro</i> Whole Plant System for Analysis of Polyphenolics and Their Antioxidant Potential in Cultivars of <i>Ocimum basilicum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10064-10075.	5.2	33
54	The importance of chain length for the polyphosphate enhancement of acidic potassium permanganate chemiluminescence. <i>Analytica Chimica Acta</i> , 2014, 842, 35-41.	5.4	8

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55	DryLab® optimised two-dimensional high performance liquid chromatography for differentiation of ephedrine and pseudoephedrine based methamphetamine samples. <i>Forensic Science International</i> , 2014, 244, 302-305.	2.2	18
56	Salicylic acid suppression of clubroot in broccoli ( <i>Brassicae oleracea</i> var. <i>italica</i> ) caused by the obligate biotroph <i>Plasmodiophora brassicae</i> . <i>Australasian Plant Pathology</i> , 2013, 42, 141-153.	1.0	57
57	Comprehensive sample analysis using high performance liquid chromatography with multi-detection. <i>Analytica Chimica Acta</i> , 2013, 803, 188-193.	5.4	6
58	Evaluation of the asymmetric least squares baseline algorithm through the accuracy of statistical peak moments. <i>Journal of Chromatography A</i> , 2013, 1284, 107-111.	3.7	24
59	Storage of extra virgin olive oil and its effect on the biological activity and concentration of oleocanthal. <i>Food Research International</i> , 2013, 50, 597-602.	6.2	24
60	High through-put and highly sensitive liquid chromatography-tandem mass spectrometry separations of essential amino acids using active flow technology chromatography columns. <i>Journal of Chromatography A</i> , 2013, 1305, 102-108.	3.7	18
61	Parallel segmented outlet flow high performance liquid chromatography with multiplexed detection. <i>Analytica Chimica Acta</i> , 2013, 803, 154-159.	5.4	13
62	Profiling of secondary metabolites in blue lupin inoculated with <i>Phytophthora cinnamomi</i> following phosphite treatment. <i>Functional Plant Biology</i> , 2013, 40, 1089.	2.1	17
63	Improved 2D-HPLC of red wine by incorporating pre-process signal-smoothing algorithms. <i>Journal of Separation Science</i> , 2013, 36, 3503-3510.	2.5	6
64	Synthesis and preliminary investigations into norbornane-based amphiphiles and their self-assembly. <i>New Journal of Chemistry</i> , 2013, 37, 1895.	2.8	9
65	Salt Loading in Canola Oil Fed SHRSP Rats Induces Endothelial Dysfunction. <i>PLoS ONE</i> , 2013, 8, e66655.	2.5	5
66	Synthesis and Comparative Physical-chemical Characterisation of Neutral and Cationic Amphiphiles Using RP-HPLC. <i>Current Analytical Chemistry</i> , 2013, 9, 653-658.	1.2	0
67	The use of parallel segmented outlet flow columns for enhanced mass spectral sensitivity at high chromatographic flow rates. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 943-949.	1.5	17
68	The determination and characterisation of 2-naphthyloxycarbonyl chloride derivatised biogenic amines in pet foods. <i>Journal of Separation Science</i> , 2012, 35, 1110-1117.	2.5	6
69	Chemiluminescence detection of cannabinoids and related compounds with acidic potassium permanganate. <i>Drug Testing and Analysis</i> , 2012, 4, 675-679.	2.6	9
70	Determination of intracellular glutathione and glutathione disulfide using high performance liquid chromatography with acidic potassium permanganate chemiluminescence detection. <i>Analyst</i> , The, 2011, 136, 2578.	3.5	77
71	Direct Detection of Biologically Significant Thiols and Disulfides with Manganese(IV) Chemiluminescence. <i>Analytical Chemistry</i> , 2011, 83, 6034-6039.	6.5	62
72	Chemiluminescence and electrochemiluminescence detection of controlled drugs. <i>Drug Testing and Analysis</i> , 2011, 3, 145-160.	2.6	51

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73	The effect of short-term canola oil ingestion on oxidative stress in the vasculature of stroke-prone spontaneously hypertensive rats. <i>Lipids in Health and Disease</i> , 2011, 10, 180.	3.0	17
74	Differential effects of dietary canola and soybean oil intake on oxidative stress in stroke-prone spontaneously hypertensive rats. <i>Lipids in Health and Disease</i> , 2011, 10, 98.	3.0	17
75	Insight into the swelling mechanism involved in the recovery of serial numbers erased from polymer surfaces. <i>Surface and Interface Analysis</i> , 2011, 43, 625-627.	1.8	8
76	Screening for antioxidants in complex matrices using high performance liquid chromatography with acidic potassium permanganate chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2011, 684, 134-141.	5.4	33
77	The concentration of oleocanthal in olive oil waste. <i>Natural Product Research</i> , 2011, 25, 542-548.	1.8	12
78	Determination of intracellular glutathione and cysteine using HPLC with a monolithic column after derivatization with monobromobimane. <i>Biomedical Chromatography</i> , 2010, 24, 455-457.	1.7	14
79	High-performance liquid chromatography with post-column 2,2'-diphenyl-1-picrylhydrazyl radical scavenging assay: Methodological considerations and application to complex samples. <i>Analytica Chimica Acta</i> , 2010, 675, 76-82.	5.4	26
80	Partial least squares and principal components analysis of wine vintage by high performance liquid chromatography with chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2010, 678, 34-38.	5.4	21
81	A rapid antioxidant assay based on acidic potassium permanganate chemiluminescence. <i>Food Chemistry</i> , 2010, 122, 926-929.	8.2	29
82	A Comparative Study of Secondary Ion Emission from Water Ice under Ion Bombardment by Au <sup>+</sup> , Au <sub>3</sub> <sup>+</sup> , and C <sub>60</sub> <sup>+</sup> . <i>Journal of Physical Chemistry C</i> , 2010, 114, 5468-5479.	3.1	14
83	Determination of Citrus aurantium protoalkaloids using HPLC with acidic potassium permanganate chemiluminescence detection. <i>Talanta</i> , 2010, 80, 2191-2195.	5.5	23
84	High performance liquid chromatography with two simultaneous on-line antioxidant assays: Evaluation and comparison of espresso coffees. <i>Talanta</i> , 2010, 81, 837-842.	5.5	35
85	The assessment of "selective stationary phases for two-dimensional HPLC analysis of foods: Application to the analysis of coffee. <i>Talanta</i> , 2010, 82, 1349-1357.	5.5	18
86	The analysis of caf� espresso using two-dimensional reversed phase "reversed phase high performance liquid chromatography with UV-absorbance and chemiluminescence detection. <i>Talanta</i> , 2010, 82, 1358-1363.	5.5	19
87	Correlation between acidic potassium permanganate chemiluminescence and in vitro cell culture assay: Physiologically meaningful antioxidant activity. <i>Analytical Methods</i> , 2010, 2, 171-173.	2.7	14
88	Effect of morphine on the growth rate of <i>Calliphora stygia</i> (Fabricius) (Diptera: Calliphoridae) and possible implications for forensic entomology. <i>Forensic Science International</i> , 2009, 193, 21-25.	2.2	42
89	Evaluation of tris(4,7-diphenyl-1,10-phenanthroline)disulfonate)ruthenium(II) as a chemiluminescence reagent. <i>Analytica Chimica Acta</i> , 2009, 634, 222-227.	5.4	29
90	Comparison of homoleptic and heteroleptic 2,2'-bipyridine and 1,10-phenanthroline ruthenium complexes as chemiluminescence and electrochemiluminescence reagents in aqueous solution. <i>Analytica Chimica Acta</i> , 2009, 635, 94-101.	5.4	28

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91	Influence of Heat on Biological Activity and Concentration of Oleocanthal—, a Natural Anti-inflammatory Agent in Virgin Olive Oil. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 1326-1330.	5.2	37
92	Preliminary evaluation of monolithic column high-performance liquid chromatography with tris(2,2'-bipyridyl)ruthenium(II) chemiluminescence detection for the determination of quetiapine in human body fluids. <i>Talanta</i> , 2009, 77, 1873-1876.	5.5	32
93	Geographical classification of some Australian wines by discriminant analysis using HPLC with UV and chemiluminescence detection. <i>Talanta</i> , 2009, 80, 833-838.	5.5	41
94	Chemistry and Health of Olive Oil Phenolics. <i>Critical Reviews in Food Science and Nutrition</i> , 2008, 49, 218-236.	10.3	282
95	Determination of urea using high-performance liquid chromatography with fluorescence detection after automated derivatisation with xanthidol. <i>Journal of Chromatography A</i> , 2007, 1161, 207-213.	3.7	79
96	TOF-SIMS Analysis Using C60. Effect of Impact Energy on Yield and Damage. <i>Analytical Chemistry</i> , 2006, 78, 1827-1831.	6.5	82
97	Is proton cationization promoted by polyatomic primary ion bombardment during time-of-flight secondary ion mass spectrometry analysis of frozen aqueous solutions?. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1327-1334.	1.5	72
98	Polyethylene terephthalate (PET) bulk film analysis using C60+, Au3+, and Au+ primary ion beams. <i>Applied Surface Science</i> , 2006, 252, 6562-6565.	6.1	19
99	Using polyatomic primary ions to probe an amino acid and a nucleic base in water ice. <i>Applied Surface Science</i> , 2006, 252, 6506-6508.	6.1	8
100	Molecular depth profiling of organic and biological materials. <i>Applied Surface Science</i> , 2006, 252, 6513-6516.	6.1	46