

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	Chemistry and Health of Olive Oil Phenolics. Critical Reviews in Food Science and Nutrition, 2008, 49, 218-236.	10.3	282
2	Fungi as a Potential Source of Pigments: Harnessing Filamentous Fungi. Frontiers in Chemistry, 2020, 8, 369.	3.6	102
3	TOF-SIMS Analysis Using C60. Effect of Impact Energy on Yield and Damage. Analytical Chemistry, 2006, 78, 1827-1831.	6.5	82
4	Determination of urea using high-performance liquid chromatography with fluorescence detection after automated derivatisation with xanthidol. Journal of Chromatography A, 2007, 1161, 207-213.	3.7	79
5	Determination of intracellular glutathione and glutathione disulfide using high performance liquid chromatography with acidic potassium permanganate chemiluminescence detection. Analyst, The, 2011, 136, 2578.	3.5	77
6	Is proton cationization promoted by polyatomic primary ion bombardment during time-of-flight secondary ion mass spectrometry analysis of frozen aqueous solutions?. Rapid Communications in Mass Spectrometry, 2006, 20, 1327-1334.	1.5	72
7	Direct Detection of Biologically Significant Thiols and Disulfides with Manganese(IV) Chemiluminescence. Analytical Chemistry, 2011, 83, 6034-6039.	6.5	62
8	Salicylic acid suppression of clubroot in broccoli (Brassicae oleracea var. italica) caused by the obligate biotroph Plasmodiophora brassicae. Australasian Plant Pathology, 2013, 42, 141-153.	1.0	57
9	Chemiluminescence and electrochemiluminescence detection of controlled drugs. Drug Testing and Analysis, 2011, 3, 145-160.	2.6	51
10	Elite hairy roots of Ocimum basilicum as a new source of rosmarinic acid and antioxidants. Plant Cell, Tissue and Organ Culture, 2016, 126, 19-32.	2.3	47
11	Self-Assembled Core-Satellite Gold Nanoparticle Networks for Ultrasensitive Detection of Chiral Molecules by Recognition Tunneling Current. ACS Nano, 2016, 10, 5096-5103.	14.6	47
12	Molecular depth profiling of organic and biological materials. Applied Surface Science, 2006, 252, 6513-6516.	6.1	46
13	Effect of morphine on the growth rate of Calliphora stygia (Fabricius) (Diptera: Calliphoridae) and possible implications for forensic entomology. Forensic Science International, 2009, 193, 21-25.	2.2	42
14	Geographical classification of some Australian wines by discriminant analysis using HPLC with UV and chemiluminescence detection. Talanta, 2009, 80, 833-838.	5.5	41
15	Influence of Heat on Biological Activity and Concentration of Oleocanthal—a Natural Anti-inflammatory Agent in Virgin Olive Oil. Journal of Agricultural and Food Chemistry, 2009, 57, 1326-1330.	5.2	37
16	High performance liquid chromatography with two simultaneous on-line antioxidant assays: Evaluation and comparison of espresso coffees. Talanta, 2010, 81, 837-842.	5.5	35
17	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
18	Screening for antioxidants in complex matrices using high performance liquid chromatography with acidic potassium permanganate chemiluminescence detection. Analytica Chimica Acta, 2011, 684, 134-141.	5.4	33

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19	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
20	Electrochemical Evidences of Chiral Molecule Recognition Using L/D-Cysteine Modified Gold Electrodes. <i>Electrochimica Acta</i> , 2017, 237, 22-28.	5.2	33
21	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
22	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
23	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
24	A rapid antioxidant assay based on acidic potassium permanganate chemiluminescence. <i>Food Chemistry</i> , 2010, 122, 926-929.	8.2	29
25	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
26	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
27	<i>Rhizophagus irregularis</i> as an elicitor of rosmarinic acid and antioxidant production by transformed roots of <i>Ocimum basilicum</i> in an <i>in vitro</i> co-culture system. <i>Mycorrhiza</i> , 2016, 26, 919-930.	2.8	27
28	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
29	Atomically-thin Schottky-like photo-electrocatalytic cross-flow membrane reactors for ultrafast remediation of persistent organic pollutants. <i>Water Research</i> , 2022, 218, 118519.	11.3	26
30	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
31	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
32	Determination of Citrus aurantium protoalkaloids using HPLC with acidic potassium permanganate chemiluminescence detection. <i>Talanta</i> , 2010, 80, 2191-2195.	5.5	23
33	Protocols for finding the most orthogonal dimensions for two-dimensional high performance liquid chromatography. <i>Talanta</i> , 2015, 134, 402-408.	5.5	23
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	Investigation into the prevalence of background DNA on flooring within houses and its transfer to a contacting surface. <i>Forensic Science International</i> , 2021, 318, 110563.	2.2	18
44	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
45	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
46	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
47	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
48	Deficiency of selenoprotein S, an endoplasmic reticulum resident oxidoreductase, impairs the contractile function of fast-twitch hindlimb muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R380-R396.	1.8	17
49	��Cathodic�� electrochemiluminescence of [Ru(bpy) ₃] ²⁺ and tri- <i>n</i> -propylamine confirmed as emission at the counter electrode. <i>Chemical Communications</i> , 2019, 55, 7081-7084.	4.1	16
50	Impact of surface roughness on the deposition of saliva and fingerprint residue on non-porous substrates. <i>Forensic Chemistry</i> , 2021, 23, 100318.	2.8	16
51	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
52	A Comparative Study of Secondary Ion Emission from Water Ice under Ion Bombardment by Au ⁺ , Au ₃ ⁺ , and C ₆₀ ⁺ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 5468-5479.	3.1	14
53	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
54	Parallel segmented outlet flow high performance liquid chromatography with multiplexed detection. <i>Analytica Chimica Acta</i> , 2013, 803, 154-159.	5.4	13

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55	The concentration of oleocanthal in olive oil waste. <i>Natural Product Research</i> , 2011, 25, 542-548.	1.8	12
56	Extraction and Determination of Morphine Present on the Surface of Australian Food Grade Poppy Seeds Using Acidic Potassium Permanganate Chemiluminescence Detection. <i>Food Analytical Methods</i> , 2020, 13, 1159-1165.	2.6	11
57	The identification of synthetic cannabinoids surface coated on herbal substrates using solid-state nuclear magnetic resonance spectroscopy. <i>Analytica Chimica Acta</i> , 2020, 1104, 105-109.	5.4	11
58	In-silico optimisation of two-dimensional high performance liquid chromatography for the determination of Australian methamphetamine seizure samples. <i>Forensic Science International</i> , 2016, 266, 511-516.	2.2	10
59	Chemiluminescence detection of cannabinoids and related compounds with acidic potassium permanganate. <i>Drug Testing and Analysis</i> , 2012, 4, 675-679.	2.6	9
60	Synthesis and preliminary investigations into norbornane-based amphiphiles and their self-assembly. <i>New Journal of Chemistry</i> , 2013, 37, 1895.	2.8	9
61	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
62	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
63	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
64	Growth kinetics and withanolide production in novel transformed roots of <i>Withania somnifera</i> and measurement of their antioxidant potential using chemiluminescence. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 132, 479-495.	2.3	9
65	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
66	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
67	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
68	Controllable graphene oxide mediated efficient electron transfer pathways across self-assembly monolayers: A new class of graphene based electrodes. <i>Electrochimica Acta</i> , 2016, 210, 539-547.	5.2	8
69	Lichen allelopathy: a new hope for limiting chemical herbicide and pesticide use. <i>Biocontrol Science and Technology</i> , 2021, 31, 773-796.	1.3	8
70	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
71	Application of 2D-HPLC coupled with principal component analysis to study an industrial opiate processing stream. <i>Talanta</i> , 2017, 166, 119-125.	5.5	7
72	The presence of background DNA on common entry points to homes. <i>Forensic Science International: Genetics Supplement Series</i> , 2019, 7, 784-786.	0.3	7

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73	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
74	Comprehensive sample analysis using high performance liquid chromatography with multi-detection. <i>Analytica Chimica Acta</i> , 2013, 803, 188-193.	5.4	6
75	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
76	Differential regulation of cellular stress responses by the endoplasmic reticulum-resident Selenoprotein S (Seps1) in proliferating myoblasts versus myotubes. <i>Physiological Reports</i> , 2018, 6, e13926.	1.7	6
77	Case studies on illegal production of ephedrine/pseudoephedrine within Fujian China. <i>Forensic Science International</i> , 2020, 312, 110326.	2.2	6
78	Salt Loading in Canola Oil Fed SHRSP Rats Induces Endothelial Dysfunction. <i>PLoS ONE</i> , 2013, 8, e66655.	2.5	5
79	Blind column selection protocol for two-dimensional high performance liquid chromatography. <i>Talanta</i> , 2016, 154, 85-91.	5.5	5
80	Extraction, identification and detection of synthetic cannabinoids found pre-ban in herbal products in Victoria, Australia. <i>Forensic Chemistry</i> , 2018, 7, 19-25.	2.8	5
81	Determination of morphine in culinary poppy seed tea extractions using high performance liquid chromatography with chemiluminescence detection. <i>Australian Journal of Forensic Sciences</i> , 2019, 51, S225-S228.	1.2	5
82	Metabolite Profiling of the Indian Food Spice Lichen, <i>Pseudevernia furfuracea</i> Combined With Optimised Extraction Methodology to Obtain Bioactive Phenolic Compounds. <i>Frontiers in Pharmacology</i> , 2021, 12, 629695.	3.5	5
83	Background DNA on flooring: The effect of cleaning. <i>Forensic Science International: Genetics Supplement Series</i> , 2019, 7, 787-790.	0.3	5
84	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
85	Elemental and molecular profiling of licit, illicit, and niche tobacco. <i>Forensic Science International</i> , 2016, 266, 549-554.	2.2	4
86	The cyclic nature of soil chemistry: Forensic analysis with the aid of ultra-high performance liquid chromatography. <i>Talanta Open</i> , 2022, 6, 100126.	3.7	4
87	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
88	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
89	A preliminary evaluation of the utility of insects and algae for PMI estimation in confined, still-water environments. <i>Australian Journal of Forensic Sciences</i> , 2023, 55, 129-140.	1.2	3
90	Forensic undergraduate cohort; job readiness curricula. <i>Australian Journal of Forensic Sciences</i> , 2019, 51, S243-S246.	1.2	2

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91	Evaluation of the anticancer potential of secondary metabolites from <i>Pseudevernia furfuracea</i> based on epidermal growth factor receptor inhibition. <i>Natural Product Research</i> , 2022, 36, 6439-6442.	1.8	2
92	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
93	Development of a resin based silica monolithic column encapsulation. <i>Analytical Methods</i> , 2015, 7, 4908-4911.	2.7	1
94	A simple device for rapid quantification of cell number from equine buccal swab samples. <i>Analytical Methods</i> , 2018, 10, 1523-1528.	2.7	1
95	Application of a digital stringing protocol on buried fabrics. <i>Australian Journal of Forensic Sciences</i> , 2019, 51, S145-S148.	1.2	1
96	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. <i>Journal of Forensic Sciences</i> , 2021, 66, 748-757.	1.6	1
97	Why do street signs taste so good? A community ballistics project. <i>Australian Journal of Forensic Sciences</i> , 2019, 51, S172-S175.	1.2	0
98	Presentation methodologies: an assessment for forensic signature analysis. <i>Australian Journal of Forensic Sciences</i> , 2020, 52, 569-578.	1.2	0
99	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
100	The effects of hydrated lime and bleach on carrion decomposition and associated insect succession. <i>Australian Journal of Forensic Sciences</i> , 2023, 55, 492-510.	1.2	0