

Andrew J Chetwynd

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,568
citations

279701

23
h-index

360920

35
g-index

37
all docs

37
docs citations

37
times ranked

2333
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental dimensions of the protein corona. <i>Nature Nanotechnology</i> , 2021, 16, 617-629.	15.6	173
2	Quantitative Lipoprotein Subclass and Low Molecular Weight Metabolite Analysis in Human Serum and Plasma by ¹ H NMR Spectroscopy in a Multilaboratory Trial. <i>Analytical Chemistry</i> , 2018, 90, 11962-11971.	3.2	165
3	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019, 14, 629-635.	15.6	149
4	Physiological impacts of zero valent iron, Fe ₃ O ₄ and Fe ₂ O ₃ nanoparticles in rice plants and their potential as Fe fertilizers. <i>Environmental Pollution</i> , 2021, 269, 116134.	3.7	121
5	A review of nanoscale LC-ESI for metabolomics and its potential to enhance the metabolome coverage. <i>Talanta</i> , 2018, 182, 380-390.	2.9	76
6	Best practice in reporting corona studies: Minimum information about Nanomaterial Biocorona Experiments (MINBE). <i>Nano Today</i> , 2019, 28, 100758.	6.2	57
7	Collection and Preparation of Clinical Samples for Metabolomics. <i>Advances in Experimental Medicine and Biology</i> , 2017, 965, 19-44.	0.8	56
8	Dynamic intracellular exchange of nanomaterials' protein corona perturbs proteostasis and remodels cell metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	56
9	The rise of the nanomaterial metabolite corona, and emergence of the complete corona. <i>Environmental Science: Nano</i> , 2020, 7, 1041-1060.	2.2	53
10	Detection limits are central to improve reporting standards when using Nile red for microplastic quantification. <i>Chemosphere</i> , 2021, 263, 127953.	4.2	51
11	Corona Isolation Method Matters: Capillary Electrophoresis Mass Spectrometry Based Comparison of Protein Corona Compositions Following On-Particle versus In-Solution or In-Gel Digestion. <i>Nanomaterials</i> , 2019, 9, 898.	1.9	47
12	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. <i>Analytical Chemistry</i> , 2020, 92, 14103-14112.	3.2	44
13	Use of a pre-analysis osmolality normalisation method to correct for variable urine concentrations and for improved metabolomic analyses. <i>Journal of Chromatography A</i> , 2016, 1431, 103-110.	1.8	42
14	msPurity: Automated Evaluation of Precursor Ion Purity for Mass Spectrometry-Based Fragmentation in Metabolomics. <i>Analytical Chemistry</i> , 2017, 89, 2432-2439.	3.2	40
15	Towards a comprehensive characterisation of the human internal chemical exposome: Challenges and perspectives. <i>Environment International</i> , 2021, 156, 106630.	4.8	39
16	The Nanomaterial Metabolite Corona Determined Using a Quantitative Metabolomics Approach: A Pilot Study. <i>Small</i> , 2020, 16, e2000295.	5.2	38
17	Evaluation of analytical performance and reliability of direct nanoLC-nanoESI-high resolution mass spectrometry for profiling the (xeno)metabolome. <i>Journal of Mass Spectrometry</i> , 2014, 49, 1063-1069.	0.7	37
18	Solid-Phase Extraction and Nanoflow Liquid Chromatography-Nanoelectrospray Ionization Mass Spectrometry for Improved Global Urine Metabolomics. <i>Analytical Chemistry</i> , 2015, 87, 1158-1165.	3.2	37

#	ARTICLE	IF	CITATIONS
19	Surface Functionalization of Graphene-Based Materials: Biological Behavior, Toxicology, and Safe-By-Design Aspects. <i>Advanced Biology</i> , 2021, 5, e2100637.	1.4	34
20	Biotransformation modulates the penetration of metallic nanomaterials across an artificial blood-brain barrier model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	32
21	An Untargeted Thermogravimetric Analysis-Fourier Transform Infrared-Gas Chromatography-Mass Spectrometry Approach for Plastic Polymer Identification. <i>Environmental Science & Technology</i> , 2021, 55, 8721-8729.	4.6	31
22	Current Application of Capillary Electrophoresis in Nanomaterial Characterisation and Its Potential to Characterise the Protein and Small Molecule Corona. <i>Nanomaterials</i> , 2018, 8, 99.	1.9	30
23	Deciphering the particle specific effects on metabolism in rat liver and plasma from ZnO nanoparticles versus ionic Zn exposure. <i>Environment International</i> , 2020, 136, 105437.	4.8	25
24	Different physiological responses of C3 and C4 plants to nanomaterials. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25542-25551.	2.7	25
25	Elucidating the mechanism of the surface functionalization dependent neurotoxicity of graphene family nanomaterials. <i>Nanoscale</i> , 2020, 12, 18600-18605.	2.8	22
26	Fast and Robust Proteome Screening Platform Identifies Neutrophil Extracellular Trap Formation in the Lung in Response to Cobalt Ferrite Nanoparticles. <i>ACS Nano</i> , 2020, 14, 4096-4110.	7.3	20
27	The potential of nanoflow liquid chromatography-nano electrospray ionisation-mass spectrometry for global profiling the faecal metabolome. <i>Journal of Chromatography A</i> , 2019, 1600, 127-136.	1.8	18
28	Surface Chemistry-Dependent Evolution of the Nanomaterial Corona on TiO ₂ Nanomaterials Following Uptake and Sub-Cellular Localization. <i>Nanomaterials</i> , 2020, 10, 401.	1.9	17
29	Nanoflow-Nanospray Mass Spectrometry Metabolomics Reveals Disruption of the Urinary Metabolite Profiles of HIV-Positive Patients on Combination Antiretroviral Therapy. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2017, 74, e45-e53.	0.9	12
30	Understanding the Significance of Sample Preparation in Studies of the Nanoparticle Metabolite Corona. <i>ACS Measurement Science Au</i> , 2022, 2, 251-260.	1.9	5
31	Metabolic characterisation of disturbances in the APOC3/triglyceride-rich lipoprotein pathway through sample-based recall by genotype. <i>Metabolomics</i> , 2020, 16, 69.	1.4	3
32	Capillary Electrophoresis Mass Spectrometry Approaches for Characterization of the Protein and Metabolite Corona Acquired by Nanomaterials. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	3
33	Urinary Protein Array Analysis to Identify Key Inflammatory Markers in Children with IgA Vasculitis Nephritis. <i>Children</i> , 2022, 9, 622.	0.6	2
34	Chapter 10. Analytical Techniques for Material-limited Metabolomics: Recent Developments and Applications. <i>New Developments in Mass Spectrometry</i> , 2021, , 242-263.	0.2	0