Andrew J Chetwynd

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/788953/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Environmental dimensions of the protein corona. Nature Nanotechnology, 2021, 16, 617-629.	31.5	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. Analytical Chemistry, 2018, 90, 11962-11971.	6.5	165
3	On the issue of transparency and reproducibility in nanomedicine. Nature Nanotechnology, 2019, 14, 629-635.	31.5	149
4	Physiological impacts of zero valent iron, Fe3O4 and Fe2O3 nanoparticles in rice plants and their potential as Fe fertilizers. Environmental Pollution, 2021, 269, 116134.	7.5	121
5	A review of nanoscale LC-ESI for metabolomics and its potential to enhance the metabolome coverage. Talanta, 2018, 182, 380-390.	5.5	76
6	Best practice in reporting corona studies: Minimum information about Nanomaterial Biocorona Experiments (MINBE). Nano Today, 2019, 28, 100758.	11.9	57
7	Collection and Preparation of Clinical Samples for Metabolomics. Advances in Experimental Medicine and Biology, 2017, 965, 19-44.	1.6	56
8	Dynamic intracellular exchange of nanomaterials' protein corona perturbs proteostasis and remodels cell metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	56
9	The rise of the nanomaterial metabolite corona, and emergence of the complete corona. Environmental Science: Nano, 2020, 7, 1041-1060.	4.3	53
10	Detection limits are central to improve reporting standards when using Nile red for microplastic quantification. Chemosphere, 2021, 263, 127953.	8.2	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. Nanomaterials, 2019, 9, 898.	4.1	47
12	Capillary Electrophoresis-Mass Spectrometry at Trial by Metabo-Ring: Effective Electrophoretic Mobility for Reproducible and Robust Compound Annotation. Analytical Chemistry, 2020, 92, 14103-14112.	6.5	44
13	Use of a pre-analysis osmolality normalisation method to correct for variable urine concentrations and for improved metabolomic analyses. Journal of Chromatography A, 2016, 1431, 103-110.	3.7	42
14	msPurity: Automated Evaluation of Precursor Ion Purity for Mass Spectrometry-Based Fragmentation in Metabolomics. Analytical Chemistry, 2017, 89, 2432-2439.	6.5	40
15	Towards a comprehensive characterisation of the human internal chemical exposome: Challenges and perspectives. Environment International, 2021, 156, 106630.	10.0	39
16	The Nanomaterial Metabolite Corona Determined Using a Quantitative Metabolomics Approach: A Pilot Study. Small, 2020, 16, e2000295.	10.0	38
17	Evaluation of analytical performance and reliability of direct nanoLCâ€nanoESIâ€high resolution mass spectrometry for profiling the (xeno)metabolome. Journal of Mass Spectrometry, 2014, 49, 1063-1069.	1.6	37
18	Solid-Phase Extraction and Nanoflow Liquid Chromatography-Nanoelectrospray Ionization Mass Spectrometry for Improved Global Urine Metabolomics. Analytical Chemistry, 2015, 87, 1158-1165.	6.5	37

ANDREW J CHETWYND

#	Article	IF	CITATIONS
19	Surface Functionalization of Grapheneâ€Based Materials: Biological Behavior, Toxicology, and Safeâ€Byâ€Design Aspects. Advanced Biology, 2021, 5, e2100637.	2.5	34
20	Biotransformation modulates the penetration of metallic nanomaterials across an artificial blood–brain barrier model. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	32
21	An Untargeted Thermogravimetric Analysis-Fourier Transform Infrared-Gas Chromatography-Mass Spectrometry Approach for Plastic Polymer Identification. Environmental Science & Technology, 2021, 55, 8721-8729.	10.0	31
22	Current Application of Capillary Electrophoresis in Nanomaterial Characterisation and Its Potential to Characterise the Protein and Small Molecule Corona. Nanomaterials, 2018, 8, 99.	4.1	30
23	Deciphering the particle specific effects on metabolism in rat liver and plasma from ZnO nanoparticles versus ionic Zn exposure. Environment International, 2020, 136, 105437.	10.0	25
24	Different physiological responses of C3 and C4 plants to nanomaterials. Environmental Science and Pollution Research, 2021, 28, 25542-25551.	5.3	25
25	Elucidating the mechanism of the surface functionalization dependent neurotoxicity of graphene family nanomaterials. Nanoscale, 2020, 12, 18600-18605.	5.6	22
26	Fast and Robust Proteome Screening Platform Identifies Neutrophil Extracellular Trap Formation in the Lung in Response to Cobalt Ferrite Nanoparticles. ACS Nano, 2020, 14, 4096-4110.	14.6	20
27	The potential of nanoflow liquid chromatography-nano electrospray ionisation-mass spectrometry for global profiling the faecal metabolome. Journal of Chromatography A, 2019, 1600, 127-136.	3.7	18
28	Surface Chemistry-Dependent Evolution of the Nanomaterial Corona on TiO2 Nanomaterials Following Uptake and Sub-Cellular Localization. Nanomaterials, 2020, 10, 401.	4.1	17
29	Nanoflow-Nanospray Mass Spectrometry Metabolomics Reveals Disruption of the Urinary Metabolite Profiles of HIV-Positive Patients on Combination Antiretroviral Therapy. Journal of Acquired Immune Deficiency Syndromes (1999), 2017, 74, e45-e53.	2.1	12
30	Understanding the Significance of Sample Preparation in Studies of the Nanoparticle Metabolite Corona. ACS Measurement Science Au, 2022, 2, 251-260.	4.4	5
31	Metabolic characterisation of disturbances in the APOC3/triglyceride-rich lipoprotein pathway through sample-based recall by genotype. Metabolomics, 2020, 16, 69.	3.0	3
32	Capillary Electrophoresis Mass Spectrometry Approaches for Characterization of the Protein and Metabolite Corona Acquired by Nanomaterials. Journal of Visualized Experiments, 2020, , .	0.3	3
33	Urinary Protein Array Analysis to Identify Key Inflammatory Markers in Children with IgA Vasculitis Nephritis. Children, 2022, 9, 622.	1.5	2
34	Chapter 10. Analytical Techniques for Material-limited Metabolomics: Recent Developments and Applications. New Developments in Mass Spectrometry, 2021, , 242-263.	0.2	0