

Katherine Hollywood

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,795
citations

361413

20
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

3020
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics: Current technologies and future trends. <i>Proteomics</i> , 2006, 6, 4716-4723.	2.2	471
2	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018, 1, 66.	4.4	159
3	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. <i>Analyst, The</i> , 2016, 141, 2155-2164.	3.5	106
4	Metabolomics for the masses: The future of metabolomics in a personalized world. <i>European Journal of Molecular and Clinical Medicine</i> , 2017, 3, 294.	0.1	99
5	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 127-136.	3.8	88
6	Root functional traits explain root exudation rate and composition across a range of grassland species. <i>Journal of Ecology</i> , 2022, 110, 21-33.	4.0	79
7	Quantitative Online Liquid Chromatography–Surface-Enhanced Raman Scattering (LC-SERS) of Methotrexate and its Major Metabolites. <i>Analytical Chemistry</i> , 2017, 89, 6702-6709.	6.5	63
8	The influence of scaling metabolomics data on model classification accuracy. <i>Metabolomics</i> , 2015, 11, 684-695.	3.0	62
9	High throughput screening of complex biological samples with mass spectrometry – from bulk measurements to single cell analysis. <i>Analyst, The</i> , 2019, 144, 872-891.	3.5	61
10	Rapid, Accurate, and Quantitative Detection of Propranolol in Multiple Human Biofluids via Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2016, 88, 10884-10892.	6.5	52
11	Comparing root exudate collection techniques: An improved hybrid method. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108391.	8.8	49
12	Rapid prototyping of microbial production strains for the biomanufacture of potential materials monomers. <i>Metabolic Engineering</i> , 2020, 60, 168-182.	7.0	48
13	Engineering <i>Escherichia coli</i> towards de novo production of gatekeeper (2S)-flavonones: naringenin, pinocembrin, eriodictyol and homoeriodictyol. <i>Synthetic Biology</i> , 2020, 5, ysaa012.	2.2	45
14	A new strategy for MS/MS data acquisition applying multiple data dependent experiments on Orbitrap mass spectrometers in non-targeted metabolomic applications. <i>Metabolomics</i> , 2015, 11, 1068-1080.	3.0	43
15	Phenotypic Characterization of <i>Shewanella oneidensis</i> MR-1 under Aerobic and Anaerobic Growth Conditions by Using Fourier Transform Infrared Spectroscopy and High-Performance Liquid Chromatography Analyses. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6266-6276.	3.1	40
16	Highly multiplexed, fast and accurate nanopore sequencing for verification of synthetic DNA constructs and sequence libraries. <i>Synthetic Biology</i> , 2019, 4, ysz025.	2.2	35
17	Monitoring the Succinate Dehydrogenase Activity Isolated from Mitochondria by Surface Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7308-7313.	3.1	29
18	Mobilising ion mobility mass spectrometry for metabolomics. <i>Analyst, The</i> , 2018, 143, 4783-4788.	3.5	29

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19	Metabolomics tools for the synthetic biology of natural products. <i>Current Opinion in Biotechnology</i> , 2018, 54, 114-120.	6.6	25
20	Enhanced Fatty Acid Scavenging and Glycerophospholipid Metabolism Accompany Melanocyte Neoplasia Progression in Zebrafish. <i>Cancer Research</i> , 2019, 79, 2136-2151.	0.9	24
21	A microbiome and metabolomic signature of phases of cutaneous healing identified by profiling sequential acute wounds of human skin: An exploratory study. <i>PLoS ONE</i> , 2020, 15, e0229545.	2.5	24
22	An automated pipeline for the screening of diverse monoterpene synthase libraries. <i>Scientific Reports</i> , 2019, 9, 11936.	3.3	21
23	Exploring the mode of action of dithranol therapy for psoriasis: a metabolomic analysis using HaCaT cells. <i>Molecular BioSystems</i> , 2015, 11, 2198-2209.	2.9	20
24	Engineering the "Missing Link" in Biosynthetic (α)-Menthol Production: Bacterial Isopulegone Isomerase. <i>ACS Catalysis</i> , 2018, 8, 2012-2020.	11.2	20
25	Validating Differential Volatilome Profiles in Parkinson's Disease. <i>ACS Central Science</i> , 2021, 7, 300-306.	11.3	20
26	Phenotypic profiling of keloid scars using FT-IR microspectroscopy reveals a unique spectral signature. <i>Archives of Dermatological Research</i> , 2010, 302, 705-715.	1.9	18
27	Structural and catalytic properties of the peroxygenase P450 enzyme CYP152K6 from <i>Bacillus methanolicus</i> . <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 18-28.	3.5	18
28	Integrated Probabilistic Annotation: A Bayesian-Based Annotation Method for Metabolomic Profiles Integrating Biochemical Connections, Isotope Patterns, and Adduct Relationships. <i>Analytical Chemistry</i> , 2019, 91, 12799-12807.	6.5	17
29	Targeting Methionine Synthase in a Fungal Pathogen Causes a Metabolic Imbalance That Impacts Cell Energetics, Growth, and Virulence. <i>MBio</i> , 2020, 11, .	4.1	14
30	Real-Time Monitoring of Enzyme-Catalysed Reactions using Deep UV Resonance Raman Spectroscopy. <i>Chemistry - A European Journal</i> , 2017, 23, 6983-6987.	3.3	9
31	Assessment of Transdermal Delivery of Topical Compounds in Skin Scarring Using a Novel Combined Approach of Raman Spectroscopy and High-Performance Liquid Chromatography. <i>Advances in Wound Care</i> , 2021, 10, 1-12.	5.1	3
32	Prototyping of microbial chassis for the biomanufacturing of high-value chemical targets. <i>Biochemical Society Transactions</i> , 2021, 49, 1055-1063.	3.4	3