

Ian A Lewis

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,560
citations

236833

25
h-index

276775

41
g-index

52
all docs

52
docs citations

52
times ranked

5382
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbiome-derived inosine modulates response to checkpoint inhibitor immunotherapy. <i>Science</i> , 2020, 369, 1481-1489.	6.0	635
2	Metabolite identification via the Madison Metabolomics Consortium Database. <i>Nature Biotechnology</i> , 2008, 26, 162-164.	9.4	591
3	Metabolite Measurement: Pitfalls to Avoid and Practices to Follow. <i>Annual Review of Biochemistry</i> , 2017, 86, 277-304.	5.0	322
4	Method for Determining Molar Concentrations of Metabolites in Complex Solutions from Two-Dimensional ¹ H- ¹³ C NMR Spectra. <i>Analytical Chemistry</i> , 2007, 79, 9385-9390.	3.2	262
5	rNMR: open source software for identifying and quantifying metabolites in NMR spectra. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, S123-6.	1.1	169
6	Genetic Investigation of Tricarboxylic Acid Metabolism during the <i>Plasmodium falciparum</i> Life Cycle. <i>Cell Reports</i> , 2015, 11, 164-174.	2.9	134
7	Metabolic potential of uncultured bacteria and archaea associated with petroleum seepage in deep-sea sediments. <i>Nature Communications</i> , 2019, 10, 1816.	5.8	118
8	Role of band 3 in regulating metabolic flux of red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18515-18520.	3.3	109
9	Stable Isotope Assisted Assignment of Elemental Compositions for Metabolomics. <i>Analytical Chemistry</i> , 2007, 79, 6912-6921.	3.2	90
10	Kinetic Flux Profiling Elucidates Two Independent Acetyl-CoA Biosynthetic Pathways in <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 36338-36350.	1.6	79
11	Metabolic QTL Analysis Links Chloroquine Resistance in <i>Plasmodium falciparum</i> to Impaired Hemoglobin Catabolism. <i>PLoS Genetics</i> , 2014, 10, e1004085.	1.5	73
12	Vancomycin relieves mycophenolate mofetil-induced gastrointestinal toxicity by eliminating gut bacterial β -glucuronidase activity. <i>Science Advances</i> , 2019, 5, eaax2358.	4.7	73
13	Thermogenic hydrocarbon biodegradation by diverse depth-stratified microbial populations at a Scotian Basin cold seep. <i>Nature Communications</i> , 2020, 11, 5825.	5.8	72
14	<i>Staphylococcus aureus</i> induces an itaconate-dominated immunometabolic response that drives biofilm formation. <i>Nature Communications</i> , 2021, 12, 1399.	5.8	72
15	An intact microbiota is required for the gastrointestinal toxicity of the immunosuppressant mycophenolate mofetil. <i>Journal of Heart and Lung Transplantation</i> , 2018, 37, 1047-1059.	0.3	59
16	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. <i>Analytical Chemistry</i> , 2018, 90, 649-656.	3.2	50
17	Role of aminotransferases in glutamate metabolism of human erythrocytes. <i>Journal of Biomolecular NMR</i> , 2011, 49, 221-229.	1.6	46
18	NEW BIOINFORMATICS RESOURCES FOR METABOLOMICS. , 2006, , .		43

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19	New bioinformatics resources for metabolomics. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2007, , 157-68.	0.7	42
20	Understanding Plant Nitrogen Metabolism through Metabolomics and Computational Approaches. Plants, 2016, 5, 39.	1.6	41
21	Optimized serial expansion of human induced pluripotent stem cells using low-density inoculation to generate clinically relevant quantities in vertical-wheel bioreactors. Stem Cells Translational Medicine, 2020, 9, 1036-1052.	1.6	40
22	NMR Method for Measuring Carbon-13 Isotopic Enrichment of Metabolites in Complex Solutions. Analytical Chemistry, 2010, 82, 4558-4563.	3.2	38
23	Hierarchy in Pentose Sugar Metabolism in Clostridium acetobutylicum. Applied and Environmental Microbiology, 2015, 81, 1452-1462.	1.4	38
24	Bacterial cyclic diguanylate signaling networks sense temperature. Nature Communications, 2021, 12, 1986.	5.8	35
25	Evolution of Fitness Cost-Neutral Mutant PfCRT Conferring P. falciparum 4-Aminoquinoline Drug Resistance Is Accompanied by Altered Parasite Metabolism and Digestive Vacuole Physiology. PLoS Pathogens, 2016, 12, e1005976.	2.1	34
26	Colitis-Induced Microbial Perturbation Promotes Postinflammatory Visceral Hypersensitivity. Cellular and Molecular Gastroenterology and Hepatology, 2020, 10, 225-244.	2.3	33
27	Iron Sequestration in Microbiota Biofilms As A Novel Strategy for Treating Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2018, 24, 1493-1502.	0.9	30
28	Cooperation between host immunity and the gut bacteria is essential for helminth-evoked suppression of colitis. Microbiome, 2021, 9, 186.	4.9	28
29	Dipeptidase-1 governs renal inflammation during ischemia reperfusion injury. Science Advances, 2022, 8, eabm0142.	4.7	28
30	Evidence for Regulation of Hemoglobin Metabolism and Intracellular Ionic Flux by the Plasmodium falciparum Chloroquine Resistance Transporter. Scientific Reports, 2018, 8, 13578.	1.6	24
31	Metabolic preference assay for rapid diagnosis of bloodstream infections. Nature Communications, 2022, 13, 2332.	5.8	20
32	Unique metabolic phenotype and its transition during maturation of juvenile male germ cells. FASEB Journal, 2021, 35, e21513.	0.2	19
33	Colitis-associated microbiota drives changes in behaviour in male mice in the absence of inflammation. Brain, Behavior, and Immunity, 2022, 102, 266-278.	2.0	19
34	Method for absolute quantification of short chain fatty acids via reverse phase chromatography mass spectrometry. PLoS ONE, 2022, 17, e0267093.	1.1	16
35	Relationship between treatment-seeking behaviour and artemisinin drug quality in Ghana. Malaria Journal, 2012, 11, 110.	0.8	12
36	Digestomics: an emerging strategy for comprehensive analysis of protein catabolism. Current Opinion in Biotechnology, 2017, 43, 134-140.	3.3	11

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37	Methods for Quantifying the Metabolic Boundary Fluxes of Cell Cultures in Large Cohorts by High-Resolution Hydrophilic Liquid Chromatography Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 8874-8882.	3.2	11
38	PelX is a UDP-N-acetylglucosamine C4-epimerase involved in Pel polysaccharide-dependent biofilm formation. <i>Journal of Biological Chemistry</i> , 2020, 295, 11949-11962.	1.6	10
39	Editorial overview: Recent innovations in the metabolomics revolution. <i>Current Opinion in Biotechnology</i> , 2017, 43, iv-vii.	3.3	7
40	Semiautomated Device for Batch Extraction of Metabolites from Tissue Samples. <i>Analytical Chemistry</i> , 2012, 84, 1809-1812.	3.2	6
41	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by <i>Bacillus mycooides</i> SelTE01. <i>Frontiers in Microbiology</i> , 2021, 12, 711000.	1.5	6
42	Novel NMR and MS Approaches to Metabolomics. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 199-230.	0.1	4
43	Metabolomics: The Key to Unraveling the Role of the Microbiome in Visceral Pain Neurotransmission. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	3
44	Crohn's disease therapeutic dietary intervention (CD-TDI): study protocol for a randomised controlled trial. <i>BMJ Open Gastroenterology</i> , 2022, 9, e000841.	1.1	0