

# Andrew N Lane

## List of Publications by Year in descending order

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156  
papers

15,365  
citations

30070

54  
h-index

19190

118  
g-index

167  
all docs

167  
docs citations

167  
times ranked

22442  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposed minimum reporting standards for chemical analysis. <i>Metabolomics</i> , 2007, 3, 211-221.	3.0	3,589
2	Glucose-Independent Glutamine Metabolism via TCA Cycling for Proliferation and Survival in B Cells. <i>Cell Metabolism</i> , 2012, 15, 110-121.	16.2	923
3	Stability and kinetics of G-quadruplex structures. <i>Nucleic Acids Research</i> , 2008, 36, 5482-5515.	14.5	644
4	Regulation of mammalian nucleotide metabolism and biosynthesis. <i>Nucleic Acids Research</i> , 2015, 43, 2466-2485.	14.5	631
5	Metabolomics enables precision medicine: "A White Paper, Community Perspective". <i>Metabolomics</i> , 2016, 12, 149.	3.0	434
6	Targeting Lactate Dehydrogenase-A Inhibits Tumorigenesis and Tumor Progression in Mouse Models of Lung Cancer and Impacts Tumor-Initiating Cells. <i>Cell Metabolism</i> , 2014, 19, 795-809.	16.2	411
7	Pyruvate carboxylase is critical for non-small-cell lung cancer proliferation. <i>Journal of Clinical Investigation</i> , 2015, 125, 687-698.	8.2	407
8	Reprogramming of proline and glutamine metabolism contributes to the proliferative and metabolic responses regulated by oncogenic transcription factor c-MYC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8983-8988.	7.1	399
9	Small-molecule inhibition of 6-phosphofructo-2-kinase activity suppresses glycolytic flux and tumor growth. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 110-120.	4.1	371
10	Altered regulation of metabolic pathways in human lung cancer discerned by <sup>13</sup> C stable isotope-resolved metabolomics (SIRM). <i>Molecular Cancer</i> , 2009, 8, 41.	19.2	369
11	Targeting aspartate aminotransferase in breast cancer. <i>Breast Cancer Research</i> , 2008, 10, R84.	5.0	234
12	Nitric oxide orchestrates metabolic rewiring in M1 macrophages by targeting aconitase 2 and pyruvate dehydrogenase. <i>Nature Communications</i> , 2020, 11, 698.	12.8	232
13	Under normoxia, 2-deoxy-D-glucose elicits cell death in select tumor types not by inhibition of glycolysis but by interfering with N-linked glycosylation. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 3049-3058.	4.1	210
14	Structure-based profiling of metabolites and isotopomers by NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2008, 52, 69-117.	7.5	209
15	Hydration Is a Major Determinant of the G-Quadruplex Stability and Conformation of the Human Telomere 3' Sequence of d(AG <sub>3</sub> (TTAG <sub>3</sub> ) <sub>3</sub> ). <i>Journal of the American Chemical Society</i> , 2010, 132, 17105-17107.	13.7	197
16	Nuclear Targeting of 6-Phosphofructo-2-kinase (PFKFB3) Increases Proliferation via Cyclin-dependent Kinases. <i>Journal of Biological Chemistry</i> , 2009, 284, 24223-24232.	3.4	187
17	Stable isotope-resolved metabolomics and applications for drug development. , 2012, 133, 366-391.		186
18	Comprehensive chemical profiling of gramineous plant root exudates using high-resolution NMR and MS. <i>Phytochemistry</i> , 2001, 57, 209-221.	2.9	173

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19	Collagen prolyl 4-hydroxylase 1 is essential for HIF-1 $\alpha$ stabilization and TNBC chemoresistance. <i>Nature Communications</i> , 2018, 9, 4456.	12.8	170
20	Applications of NMR spectroscopy to systems biochemistry. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2016, 92-93, 18-53.	7.5	164
21	Inosine is an alternative carbon source for CD8 <sup>+</sup> -T-cell function under glucose restriction. <i>Nature Metabolism</i> , 2020, 2, 635-647.	11.9	150
22	Combined use of 1H-NMR and GC-MS for metabolite monitoring and in vivo 1H-NMR assignments. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1986, 882, 154-167.	2.4	149
23	Resolution and characterization of the structural polymorphism of a single quadruplex-forming sequence. <i>Nucleic Acids Research</i> , 2010, 38, 4877-4888.	14.5	141
24	Comprehensive Analysis of Organic Ligands in Whole Root Exudates Using Nuclear Magnetic Resonance and Gas Chromatography–Mass Spectrometry. <i>Analytical Biochemistry</i> , 1997, 251, 57-68.	2.4	132
25	Dectin-1 Activation by a Natural Product $\beta$ -Glucan Converts Immunosuppressive Macrophages into an M1-like Phenotype. <i>Journal of Immunology</i> , 2015, 195, 5055-5065.	0.8	129
26	Polyethylene glycol binding alters human telomere G-quadruplex structure by conformational selection. <i>Nucleic Acids Research</i> , 2013, 41, 7934-7946.	14.5	122
27	Isotopomer-Based Metabolomic Analysis by NMR and Mass Spectrometry. <i>Methods in Cell Biology</i> , 2008, 84, 541-588.	1.1	109
28	The Catalytic Mechanism of Tryptophan Synthase from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1983, 129, 571-582.	0.2	106
29	NMR-based stable isotope resolved metabolomics in systems biochemistry. <i>Journal of Biomolecular NMR</i> , 2011, 49, 267-280.	2.8	102
30	Stable isotope resolved metabolomics of lung cancer in a SCID mouse model. <i>Metabolomics</i> , 2011, 7, 257-269.	3.0	98
31	SDHB-Deficient Cancers: The Role of Mutations That Impair Iron Sulfur Cluster Delivery. <i>Journal of the National Cancer Institute</i> , 2016, 108, djv287.	6.3	92
32	Ketogenesis contributes to intestinal cell differentiation. <i>Cell Death and Differentiation</i> , 2017, 24, 458-468.	11.2	92
33	Selenium Biotransformations by a Euryhaline Microalga Isolated from a Saline Evaporation Pond. <i>Environmental Science &amp; Technology</i> , 1997, 31, 569-576.	10.0	82
34	Stable Isotope-Resolved Metabolomics (SIRM) in Cancer Research with Clinical Application to NonSmall Cell Lung Cancer. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 173-182.	2.0	82
35	Exploring cancer metabolism using stable isotope-resolved metabolomics (SIRM). <i>Journal of Biological Chemistry</i> , 2017, 292, 11601-11609.	3.4	80
36	Metabolic Reprogramming for Producing Energy and Reducing Power in Fumarate Hydratase Null Cells from Hereditary Leiomyomatosis Renal Cell Carcinoma. <i>PLoS ONE</i> , 2013, 8, e72179.	2.5	80

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37	Thermodynamics of nucleic acids and their interactions with ligands. Quarterly Reviews of Biophysics, 2000, 33, 255-306.	5.7	79
38	Isotopomer analysis of lipid biosynthesis by high resolution mass spectrometry and NMR. Analytica Chimica Acta, 2009, 651, 201-208.	5.4	79
39	The Mechanism of Binding of L-Serine to Tryptophan Synthase from <i>Escherichia coli</i> . FEBS Journal, 1983, 129, 561-570.	0.2	76
40	Noninvasive liquid diet delivery of stable isotopes into mouse models for deep metabolic network tracing. Nature Communications, 2017, 8, 1646.	12.8	74
41	Mechanism of the physiological reaction catalyzed by tryptophan synthase from <i>Escherichia coli</i> . Biochemistry, 1991, 30, 479-484.	2.5	73
42	A novel deconvolution method for modeling UDP-N-acetyl-D-glucosamine biosynthetic pathways based on 13C mass isotopologue profiles under non-steady-state conditions. BMC Biology, 2011, 9, 37.	3.8	73
43	Knockdown of Malic Enzyme 2 Suppresses Lung Tumor Growth, Induces Differentiation and Impacts PI3K/AKT Signaling. Scientific Reports, 2014, 4, 5414.	3.3	73
44	Fructose-2,6-Bisphosphate synthesis by 6-Phosphofructo-2-Kinase/Fructose-2,6-Bisphosphatase 4 (PFKFB4) is required for the glycolytic response to hypoxia and tumor growth. Oncotarget, 2014, 5, 6670-6686.	1.8	72
45	Exosomal lipids for classifying early and late stage non-small cell lung cancer. Analytica Chimica Acta, 2018, 1037, 256-264.	5.4	72
46	Acute loss of iron-sulfur clusters results in metabolic reprogramming and generation of lipid droplets in mammalian cells. Journal of Biological Chemistry, 2018, 293, 8297-8311.	3.4	70
47	Quantification and identification of isotopomer distributions of metabolites in crude cell extracts using 1H TOCSY. Metabolomics, 2007, 3, 79-86.	3.0	68
48	Anaerobic nitrate and ammonium metabolism in flood-tolerant rice coleoptiles. Journal of Experimental Botany, 1997, 48, 1655-1666.	4.8	67
49	The oncoprotein H-RasV12 increases mitochondrial metabolism. Molecular Cancer, 2007, 6, 77.	19.2	65
50	Mitochondrial DNA alterations underlie an irreversible shift to aerobic glycolysis in fumarate hydratase-deficient renal cancer. Science Signaling, 2021, 14, .	3.6	64
51	NMR and molecular modeling studies of the interaction of berenil and pentamidine with d(CGCAATTTGCG)2. FEBS Journal, 1993, 213, 1175-1184.	0.2	63
52	Relationships between the rate of synthesis of ATP and the concentrations of reactants and products of ATP hydrolysis in maize root tips, determined by 31P nuclear magnetic resonance. Archives of Biochemistry and Biophysics, 1985, 240, 712-722.	3.0	61
53	A Very Stable Cyclic DNA Miniduplex with Just Two Base Pairs. ChemBioChem, 2008, 9, 50-52.	2.6	61
54	Rhabdomyosarcoma cells show an energy producing anabolic metabolic phenotype compared with primary myocytes. Molecular Cancer, 2008, 7, 79.	19.2	61

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55	De novo synthesis of serine and glycine fuels purine nucleotide biosynthesis in human lung cancer tissues. <i>Journal of Biological Chemistry</i> , 2019, 294, 13464-13477.	3.4	58
56	Metabolomics-edited transcriptomics analysis of Se anticancer action in human lung cancer cells. <i>Metabolomics</i> , 2006, 1, 325-339.	3.0	57
57	Stable isotope-resolved metabolomic analysis of lithium effects on glial-neuronal metabolism and interactions. <i>Metabolomics</i> , 2010, 6, 165-179.	3.0	57
58	Integrating Metabolomics and Transcriptomics for Probing Se Anticancer Mechanisms. <i>Drug Metabolism Reviews</i> , 2006, 38, 707-732.	3.6	56
59	High information throughput analysis of nucleotides and their isotopically enriched isotopologues by direct-infusion FTICR-MS. <i>Metabolomics</i> , 2012, 8, 930-939.	3.0	52
60	Distinctly perturbed metabolic networks underlie differential tumor tissue damages induced by immune modulator $\beta$ -glucan in a two-case ex vivo non-small-cell lung cancer study. <i>Journal of Physical Education and Sports Management</i> , 2016, 2, a000893.	1.2	52
61	NMR assignments and solution conformation of the DNA . RNA hybrid duplex d(GTGAAGCTT) . r(AAGUUCAC). <i>FEBS Journal</i> , 1993, 215, 297-306.	0.2	50
62	Conformational and dynamic properties of a 14 residue antifreeze glycopeptide from antarctic cod. <i>Protein Science</i> , 1998, 7, 1555-1563.	7.6	49
63	Biotransformations of Selenium Oxyanion by Filamentous Cyanophyte-Dominated Mat Cultured from Agricultural Drainage Waters. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3185-3193.	10.0	47
64	Probing the metabolic phenotype of breast cancer cells by multiple tracer stable isotope resolved metabolomics. <i>Metabolic Engineering</i> , 2017, 43, 125-136.	7.0	45
65	Metabolic reprogramming in tumors: Contributions of the tumor microenvironment. <i>Genes and Diseases</i> , 2020, 7, 185-198.	3.4	45
66	5-Formylcytosine does not change the global structure of DNA. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 544-552.	8.2	44
67	Analysis of Phosphorylated Metabolites in Crayfish Extracts by Two-Dimensional $^1\text{H}$ - $^{31}\text{P}$ NMR Heteronuclear Total Correlation Spectroscopy (heteroTOCSY). <i>Analytical Biochemistry</i> , 1998, 263, 139-149.	2.4	43
68	NMR-based Stable Isotope Resolved Metabolomics in systems biochemistry. <i>Archives of Biochemistry and Biophysics</i> , 2017, 628, 123-131.	3.0	43
69	Prospects for clinical cancer metabolomics using stable isotope tracers. <i>Experimental and Molecular Pathology</i> , 2009, 86, 165-173.	2.1	42
70	JAK2-mutant hematopoietic cells display metabolic alterations that can be targeted to treat myeloproliferative neoplasms. <i>Blood</i> , 2019, 134, 1832-1846.	1.4	42
71	Stable Isotope-Labeled Tracers for Metabolic Pathway Elucidation by GC-MS and FT-MS. <i>Methods in Molecular Biology</i> , 2014, 1198, 147-167.	0.9	42
72	Stable Isotope Resolved Metabolomics Studies in ex vivo Tissue Slices. <i>Bio-protocol</i> , 2016, 6, .	0.4	42

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73	Stable isotope-assisted metabolomics in cancer research. <i>IUBMB Life</i> , 2008, 60, 124-129.	3.4	40
74	Stable Isotope-Resolved Metabolomics Shows Metabolic Resistance to Anti-Cancer Selenite in 3D Spheroids versus 2D Cell Cultures. <i>Metabolites</i> , 2018, 8, 40.	2.9	40
75	Hydration of the RNA duplex r(CGCAAUUUGCC) <sub>2</sub> determined by NMR. <i>Nucleic Acids Research</i> , 1996, 24, 3693-3699.	14.5	38
76	Role in Tumor Growth of a Glycogen Debranching Enzyme Lost in Glycogen Storage Disease. <i>Journal of the National Cancer Institute</i> , 2014, 106, .	6.3	38
77	Stable isotope resolved metabolomics analysis of ribonucleotide and RNA metabolism in human lung cancer cells. <i>Metabolomics</i> , 2012, 8, 517-527.	3.0	37
78	Chloroformate derivatization for tracing the fate of Amino acids in cells and tissues by multiple stable isotope resolved metabolomics (mSIRM). <i>Analytica Chimica Acta</i> , 2017, 976, 63-73.	5.4	37
79	Effects of Pancreatic Spasmolytic Polypeptide (PSP) on Epithelial Cell Function. <i>FEBS Journal</i> , 1996, 235, 64-72.	0.2	36
80	In Vivo and In Vitro Metabolomic Analysis of Anaerobic Rice Coleoptiles Revealed Unexpected Pathways. <i>Russian Journal of Plant Physiology</i> , 2003, 50, 787-793.	1.1	35
81	A negative reciprocal regulatory axis between cyclin D1 and HNF4 $\alpha$ modulates cell cycle progression and metabolism in the liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17177-17186.	7.1	34
82	The solution structure of a DNA middle dot RNA duplex containing 5-propynyl U and C; comparison with 5-Me modifications. <i>Nucleic Acids Research</i> , 2003, 31, 2683-2693.	14.5	33
83	Metabolic reprogramming and Notch activity distinguish between non-small cell lung cancer subtypes. <i>British Journal of Cancer</i> , 2019, 121, 51-64.	6.4	33
84	The promise of metabolomics in cancer molecular therapeutics. <i>Current Opinion in Molecular Therapeutics</i> , 2004, 6, 584-92.	2.8	31
85	NMR and MS-based Stable Isotope-Resolved Metabolomics and applications in cancer metabolism. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115322.	11.4	29
86	Hypoxia does not affect rate of ATP synthesis and energy metabolism in rice shoot tips as measured by <sup>31</sup> P NMR in vivo. <i>Archives of Biochemistry and Biophysics</i> , 1992, 294, 314-318.	3.0	28
87	Thermodynamic stability and solution conformation of tandem G . A mismatches in RNA and RNA . DNA hybrid duplexes. <i>FEBS Journal</i> , 1994, 220, 703-715.	0.2	27
88	Metabolic acidosis and the importance of balanced equations. <i>Metabolomics</i> , 2009, 5, 163-165.	3.0	27
89	Interaction of Minor-Groove-Binding Diamidine Ligands with an Asymmetric DNA Duplex. <i>NMR and Molecular Modelling Studies. FEBS Journal</i> , 1995, 229, 433-444.	0.2	25
90	Metabolic profiling identifies lung tumor responsiveness to erlotinib. <i>Experimental and Molecular Pathology</i> , 2009, 87, 83-86.	2.1	25

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91	An electrophoretic profiling method for thiol-rich phytochelatins and metallothioneins. <i>Phytochemical Analysis</i> , 2004, 15, 175-183.	2.4	24
92	Solution structure of the RBD1,2 domains from human nucleolin. <i>Journal of Biomolecular NMR</i> , 2010, 47, 79-83.	2.8	24
93	The stability of intramolecular DNA G-quadruplexes compared with other macromolecules. <i>Biochimie</i> , 2012, 94, 277-286.	2.6	24
94	Preclinical models for interrogating drug action in human cancers using Stable Isotope Resolved Metabolomics (SIRM). <i>Metabolomics</i> , 2016, 12, 1.	3.0	24
95	Epigenetic Modifications of Cytosine: Biophysical Properties, Regulation, and Function in Mammalian DNA. <i>BioEssays</i> , 2018, 40, 1700199.	2.5	24
96	<sup>13</sup> C Tracer Studies of Metabolism in Mouse Tumor Xenografts. <i>Bio-protocol</i> , 2015, 5, .	0.4	24
97	Determination of sugar conformations by NMR in larger DNA duplexes using both dipolar and scalar data: Application to d(CATGTGACGTCACATG) <sub>2</sub> . <i>Journal of Biomolecular NMR</i> , 1996, 7, 190-206.	2.8	23
98	Comparison of the solution structures of intramolecular DNA triple helices containing adjacent and non-adjacent CG·C <sup>+</sup> triplets. <i>Nucleic Acids Research</i> , 1998, 26, 3677-3686.	14.5	23
99	<sup>13</sup> C-Isotopomer-based metabolomics of microbial groups isolated from two forest soils. <i>Metabolomics</i> , 2009, 5, 108-122.	3.0	23
100	Development and in silico evaluation of large-scale metabolite identification methods using functional group detection for metabolomics. <i>Frontiers in Genetics</i> , 2014, 5, 237.	2.3	23
101	Succinate dehydrogenase/complex II is critical for metabolic and epigenetic regulation of T cell proliferation and inflammation. <i>Science Immunology</i> , 2022, 7, eabm8161.	11.9	23
102	<sup>31</sup> P NMR investigation of the backbone conformation and dynamics of the hexamer duplex d(5â€²-GCATGC) <sub>2</sub> in its complex with the antibiotic nogalamycin. <i>FEBS Letters</i> , 1992, 297, 292-296.	2.8	22
103	Chemoselective detection and discrimination of carbonyl-containing compounds in metabolite mixtures by <sup>1</sup> H-detected <sup>15</sup> N nuclear magnetic resonance. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 337-343.	1.9	22
104	Overexpression of the human DEK oncogene reprograms cellular metabolism and promotes glycolysis. <i>PLoS ONE</i> , 2017, 12, e0177952.	2.5	22
105	Properties of multiple G . A mismatches in stable oligonucleotide duplexes. <i>FEBS Journal</i> , 1994, 220, 717-727.	0.2	20
106	Quantitative profiling of carbonyl metabolites directly in crude biological extracts using chemoselective tagging and nanoESI-FTMS. <i>Analyst</i> , The, 2018, 143, 311-322.	3.5	20
107	Solution Structure, Hydrodynamics and Thermodynamics of the UvrB C-terminal Domain. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001, 19, 219-236.	3.5	19
108	Imaging of glucose metabolism by <sup>13</sup> C-MRI distinguishes pancreatic cancer subtypes in mice. <i>ELife</i> , 2019, 8, .	6.0	19

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109	Improving NMR sensitivity in room temperature and cooled probes with dipolar ions. <i>Journal of Magnetic Resonance</i> , 2005, 173, 339-343.	2.1	18
110	Structural Insights into the Evolution of a Sexy Protein: Novel Topology and Restricted Backbone Flexibility in a Hypervariable Pheromone from the Red-Legged Salamander, <i>Plethodon shermani</i> . <i>PLoS ONE</i> , 2014, 9, e96975.	2.5	18
111	NMR assignments and secondary structure of the UvrC binding domain of UvrB. <i>FEBS Letters</i> , 1999, 451, 181-185.	2.8	17
112	Innate immune activation by checkpoint inhibition in human patient-derived lung cancer tissues. <i>ELife</i> , 2021, 10, .	6.0	17
113	Photoinducible Oncometabolite Detection. <i>ChemBioChem</i> , 2019, 20, 360-365.	2.6	16
114	Inhibition of Anaplerotic Glutaminolysis Underlies Selenite Toxicity in Human Lung Cancer. <i>Proteomics</i> , 2019, 19, e1800486.	2.2	15
115	New methods to identify high peak density artifacts in Fourier transform mass spectra and to mitigate their effects on high-throughput metabolomic data analysis. <i>Metabolomics</i> , 2018, 14, 125.	3.0	14
116	Apolipoprotein E genotype-dependent nutrigenetic effects to prebiotic inulin for modulating systemic metabolism and neuroprotection in mice via gut-brain axis. <i>Nutritional Neuroscience</i> , 2021, , 1-11.	3.1	14
117	Determining the Origin of the Stabilization of DNA by 5-Aminopropynylation of Pyrimidines. <i>Biochemistry</i> , 2005, 44, 4710-4719.	2.5	13
118	UCP2 Overexpression Redirects Glucose into Anabolic Metabolic Pathways. <i>Proteomics</i> , 2019, 19, e1800353.	2.2	13
119	Determination of the orientations of tryptophan analogues bound to the trp repressor and the relationship to activation. <i>FEBS Journal</i> , 1991, 202, 459-470.	0.2	12
120	Sequence-specific NMR assignments of the trp repressor from <i>Escherichia coli</i> using three-dimensional <sup>15</sup> N/ <sup>1</sup> H heteronuclear techniques. <i>FEBS Journal</i> , 1992, 204, 137-146.	0.2	11
121	Conformational Flexibility in DNA Duplexes Containing Single G · G Mismatches. <i>FEBS Journal</i> , 1995, 230, 1073-1087.	0.2	11
122	Stable Isotope-Resolved Metabolomics by NMR. <i>Methods in Molecular Biology</i> , 2019, 2037, 151-168.	0.9	11
123	Assignment Strategies for Nuclear Magnetic Resonances in Metabolomic Research. , 2013, , 525-584.		9
124	Applications of chromatography-ultra high-resolution MS for stable isotope-resolved metabolomics (SIRM) reconstruction of metabolic networks. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 123, 115676.	11.4	9
125	Resolving Metabolic Heterogeneity in Experimental Models of the Tumor Microenvironment from a Stable Isotope Resolved Metabolomics Perspective. <i>Metabolites</i> , 2020, 10, 249.	2.9	9
126	NMR Methods for Determining Lipid Turnover via Stable Isotope Resolved Metabolomics. <i>Metabolites</i> , 2021, 11, 202.	2.9	9



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127	An Ion Chromatography- <sup>1</sup> Ultrahigh-Resolution-MS <sup>2</sup> Method for Stable Isotope-Resolved Metabolomics Reconstruction of Central Metabolic Networks. <i>Analytical Chemistry</i> , 2021, 93, 2749-2757.	6.5	9
128	Administration of exogenous adenosine triphosphate to ischemic skeletal muscle induces an energy-sparing effect: Role of adenosine receptors. <i>Journal of Surgical Research</i> , 2013, 181, e15-e22.	1.6	8
129	<sup>2</sup> -Alkynyl spin-labelling is a minimally perturbing tool for DNA structural analysis. <i>Nucleic Acids Research</i> , 2020, 48, 2830-2840.	14.5	8
130	The influence of tryptophan on mobility of residues in the trp repressor of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1989, 182, 95-104.	0.2	7
131	Influence of Conformational Averaging on <sup>1</sup> H-H NOEs and Structure Determination in DNA. <i>Magnetic Resonance in Chemistry</i> , 1996, 34, S3-S10.	1.9	7
132	Thermodynamics and Specificity of the Mbp1-DNA Interaction. <i>Biochemistry</i> , 2008, 47, 6378-6385.	2.5	7
133	Structural analysis of the DNA target site and its interaction with Mbp1. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4981.	2.8	7
134	Inferring Gene Regulatory Networks of Metabolic Enzymes Using Gradient Boosted Trees. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1528-1536.	6.3	7
135	Secondary structure and stability of the selenocysteine insertion sequences (SECIS) for human thioredoxin reductase and glutathione peroxidase. <i>Nucleic Acids Research</i> , 2004, 32, 1746-1755.	14.5	6
136	NMR Analysis of Carboxylate Isotopomers of <sup>13</sup> C-Metabolites by Chemospecific Derivatization with <sup>15</sup> N-Cholamine. <i>Analytical Chemistry</i> , 2021, 93, 6629-6637.	6.5	6
137	Principles of NMR for Applications in Metabolomics. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 127-197.	0.2	5
138	Improved segmented-scan spectral stitching for stable isotope resolved metabolomics (SIRM) by ultra-high-resolution Fourier transform mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1080, 104-115.	5.4	5
139	Multifocal Renal Cell Carcinomas With Somatic IDH2 Mutation: Report of a Previously Undescribed Neoplasm. <i>American Journal of Surgical Pathology</i> , 2021, 45, 137-142.	3.7	5
140	Scaled-up separation of cellobiohydrolase1 from a cellulase mixture by ion-exchange chromatography. <i>Biotechnology Progress</i> , 2011, 27, 1644-1652.	2.6	4
141	Rapid analysis of S-adenosylmethionine (SAM) and S-adenosylhomocysteine (SAH) isotopologues in stable isotope-resolved metabolomics (SIRM) using direct infusion nanoelectrospray ultra-high-resolution Fourier transform mass spectrometry (DI-nESI-UHR-FTMS). <i>Analytica Chimica Acta</i> , 2021, 1181, 3388-3393.	5.4	4
142	Conformational Analysis of Nucleic Acids: Problems and Solutions. <i>ACS Symposium Series</i> , 1997, , 106-121.	0.5	3
143	NMR structure note: alkaline proteinase inhibitor APRin from <i>Pseudomonas aeruginosa</i> . <i>Journal of Biomolecular NMR</i> , 2008, 40, 213-217.	2.8	3
144	Software Supporting a Workflow of Quantitative Dynamic Flux Maps Estimation in Central Metabolism from SIRM Experimental Data. <i>Methods in Molecular Biology</i> , 2020, 2088, 271-298.	0.9	3

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145	Letter to the Editor: 1H, 15N and 13C assignments of the alkaline proteinase inhibitor APRin from Pseudomonas aeruginosa. Journal of Biomolecular NMR, 2005, 31, 265-266.	2.8	2
146	Fumarate hydratase-deficient renal cell carcinoma cells respond to asparagine by activation of the unfolded protein response and stimulation of the hexosamine biosynthetic pathway. Cancer & Metabolism, 2020, 8, 7.	5.0	2
147	Differential Abundance Analysis with Bayes Shrinkage Estimation of Variance (DASEV) for Zero-Inflated Proteomic and Metabolomic Data. Scientific Reports, 2020, 10, 876.	3.3	2
148	Quantification of Isotopologues of Amino Acids by Multiplexed Stable Isotope-Resolved Metabolomics Using Ultrahigh-Resolution Mass Spectrometry Coupled with Direct Infusion. Methods in Molecular Biology, 2019, 2030, 57-68.	0.9	2
149	Clinical Aspects of Metabolomics. Methods in Pharmacology and Toxicology, 2012, , 29-60.	0.2	2
150	Head and Neck Cancer Susceptibility and Metabolism in Fanconi Anemia. Cancers, 2022, 14, 2040.	3.7	2
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