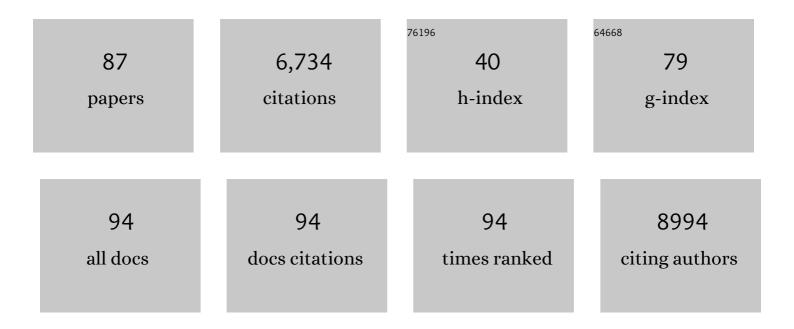
## Richard M Higashi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	NMR Methods for Determining Lipid Turnover via Stable Isotope Resolved Metabolomics. Metabolites, 2021, 11, 202.	1.3	9
2	Blockade of 6-phosphogluconate dehydrogenase generates CD8+ effector TÂcells with enhanced anti-tumor function. Cell Reports, 2021, 34, 108831.	2.9	23
3	Innate immune activation by checkpoint inhibition in human patient-derived lung cancer tissues. ELife, 2021, 10, .	2.8	17
4	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). Analytica Chimica Acta, 2021, 1181, 338873.	2.6	4
5	An Ion Chromatography–Ultrahigh-Resolution-MS <sup>1</sup> /Data-Independent High-Resolution MS <sup>2</sup> Method for Stable Isotope-Resolved Metabolomics Reconstruction of Central Metabolic Networks. Analytical Chemistry, 2021, 93, 2749-2757.	3.2	9
6	6-Phosphogluconate dehydrogenase (6PGD), a key checkpoint in reprogramming of regulatory T cells metabolism and function. ELife, 2021, 10, .	2.8	17
7	Applications of chromatography-ultra high-resolution MS for stable isotope-resolved metabolomics (SIRM) reconstruction of metabolic networks. TrAC - Trends in Analytical Chemistry, 2020, 123, 115676.	5.8	9
8	Metabolic reprogramming in tumors: Contributions of the tumor microenvironment. Genes and Diseases, 2020, 7, 185-198.	1.5	45
9	Resolving Metabolic Heterogeneity in Experimental Models of the Tumor Microenvironment from a Stable Isotope Resolved Metabolomics Perspective. Metabolites, 2020, 10, 249.	1.3	9
10	Nitric oxide orchestrates metabolic rewiring in M1 macrophages by targeting aconitase 2 and pyruvate dehydrogenase. Nature Communications, 2020, 11, 698.	5.8	232
11	Differential Abundance Analysis with Bayes Shrinkage Estimation of Variance (DASEV) for Zero-Inflated Proteomic and Metabolomic Data. Scientific Reports, 2020, 10, 876.	1.6	2
12	Software Supporting a Workflow of Quantitative Dynamic Flux Maps Estimation in Central Metabolism from SIRM Experimental Data. Methods in Molecular Biology, 2020, 2088, 271-298.	0.4	3
13	Inhibition of Anaplerotic Glutaminolysis Underlies Selenite Toxicity in Human Lung Cancer. Proteomics, 2019, 19, e1800486.	1.3	15
14	De novo synthesis of serine and glycine fuels purine nucleotide biosynthesis in human lung cancer tissues. Journal of Biological Chemistry, 2019, 294, 13464-13477.	1.6	58
15	Improved segmented-scan spectral stitching for stable isotope resolved metabolomics (SIRM) by ultra-high-resolution Fourier transform mass spectrometry. Analytica Chimica Acta, 2019, 1080, 104-115.	2.6	5
16	Metabolic reprogramming and Notch activity distinguish between non-small cell lung cancer subtypes. British Journal of Cancer, 2019, 121, 51-64.	2.9	33
17	NMR and MS-based Stable Isotope-Resolved Metabolomics and applications in cancer metabolism. TrAC - Trends in Analytical Chemistry, 2019, 120, 115322.	5.8	29
18	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.	0.4	2

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19	Exosomal lipids for classifying early and late stage non-small cell lung cancer. Analytica Chimica Acta, 2018, 1037, 256-264.	2.6	72
20	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.	1.6	70
21	Selenium toxicity to survival and reproduction of Collembola and Enchytraeids in a sandy loam soil. Environmental Toxicology and Chemistry, 2018, 37, 846-853.	2.2	4
22	Quantitative profiling of carbonyl metabolites directly in crude biological extracts using chemoselective tagging and nanoESI-FTMS. Analyst, The, 2018, 143, 311-322.	1.7	20
23	New methods to identify high peak density artifacts in Fourier transform mass spectra and to mitigate their effects on high-throughput metabolomic data analysis. Metabolomics, 2018, 14, 125.	1.4	14
24	Probing the metabolic phenotype of breast cancer cells by multiple tracer stable isotope resolved metabolomics. Metabolic Engineering, 2017, 43, 125-136.	3.6	45
25	Exploring cancer metabolism using stable isotope-resolved metabolomics (SIRM). Journal of Biological Chemistry, 2017, 292, 11601-11609.	1.6	80
26	Chloroformate derivatization for tracing the fate of Amino acids in cells and tissues by multiple stable isotope resolved metabolomics (mSIRM). Analytica Chimica Acta, 2017, 976, 63-73.	2.6	37
27	Noninvasive liquid diet delivery of stable isotopes into mouse models for deep metabolic network tracing. Nature Communications, 2017, 8, 1646.	5.8	74
28	Distinctly perturbed metabolic networks underlie differential tumor tissue damages induced by immune modulator β-glucan in a two-case ex vivo non-small-cell lung cancer study. Journal of Physical Education and Sports Management, 2016, 2, a000893.	0.5	52
29	An obligatory role for neurotensin in high-fat-diet-induced obesity. Nature, 2016, 533, 411-415.	13.7	202
30	Preclinical models for interrogating drug action in human cancers using Stable Isotope Resolved Metabolomics (SIRM). Metabolomics, 2016, 12, 1.	1.4	24
31	Stable Isotope Resolved Metabolomics Studies in ex vivo TIssue Slices. Bio-protocol, 2016, 6, .	0.2	42
32	Pyruvate carboxylase is critical for non–small-cell lung cancer proliferation. Journal of Clinical Investigation, 2015, 125, 687-698.	3.9	407
33	Chemoselective detection and discrimination of carbonyl-containing compounds in metabolite mixtures by <sup>1</sup> H-detected <sup>15</sup> N nuclear magnetic resonance. Magnetic Resonance in Chemistry, 2015, 53, 337-343.	1.1	22
34	Dectin-1 Activation by a Natural Product β-Glucan Converts Immunosuppressive Macrophages into an M1-like Phenotype. Journal of Immunology, 2015, 195, 5055-5065.	0.4	129
35	Profiling thiol metabolites and quantification of cellular glutathione using FT-ICR-MS spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 4371-4379.	1.9	21
36	Targeting Lactate Dehydrogenase-A Inhibits Tumorigenesis and Tumor Progression in Mouse Models of Lung Cancer and Impacts Tumor-Initiating Cells. Cell Metabolism, 2014, 19, 795-809.	7.2	411

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37	Knockdown of Malic Enzyme 2 Suppresses Lung Tumor Growth, Induces Differentiation and Impacts PI3K/AKT Signaling. Scientific Reports, 2014, 4, 5414.	1.6	73
38	Stable Isotope-Labeled Tracers for Metabolic Pathway Elucidation by GC-MS and FT-MS. Methods in Molecular Biology, 2014, 1198, 147-167.	0.4	42
39	A microfabricated preconcentration device for breath analysis. Sensors and Actuators B: Chemical, 2013, 180, 130-136.	4.0	31
40	High information throughput analysis of nucleotides and their isotopically enriched isotopologues by direct-infusion FTICR-MS. Metabolomics, 2012, 8, 930-939.	1.4	52
41	A carbonyl capture approach for profiling oxidized metabolites in cell extracts. Metabolomics, 2012, 8, 989-996.	1.4	30
42	Glucose-Independent Glutamine Metabolism via TCA Cycling for Proliferation and Survival in B Cells. Cell Metabolism, 2012, 15, 110-121.	7.2	923
43	The Metabolic Profile of Tumors Depends on Both the Responsible Genetic Lesion and Tissue Type. Cell Metabolism, 2012, 15, 157-170.	7.2	553
44	Preconcentration and Analysis of Trace Volatile Carbonyl Compounds. Analytical Chemistry, 2012, 84, 1288-1293.	3.2	48
45	Stable isotope-resolved metabolomics and applications for drug development. , 2012, 133, 366-391.		186
46	Introduction to Metabolomics. Methods in Pharmacology and Toxicology, 2012, , 1-6.	0.1	0
47	A novel microreactor approach for analysis of ketones and aldehydes in breath. Analyst, The, 2011, 136, 4662.	1.7	29
48	Stable isotope resolved metabolomics of lung cancer in a SCID mouse model. Metabolomics, 2011, 7, 257-269.	1.4	98
49	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.	1.7	73
50	Stable Isotope-Resolved Metabolomics (SIRM) in Cancer Research with Clinical Application to NonSmall Cell Lung Cancer. OMICS A Journal of Integrative Biology, 2011, 15, 173-182.	1.0	82
51	Stable isotope-resolved metabolomic analysis of lithium effects on glial-neuronal metabolism and interactions. Metabolomics, 2010, 6, 165-179.	1.4	57
52	Prospects for clinical cancer metabolomics using stable isotope tracers. Experimental and Molecular Pathology, 2009, 86, 165-173.	0.9	42
53	Metabolic profiling identifies lung tumor responsiveness to erlotinib. Experimental and Molecular Pathology, 2009, 87, 83-86.	0.9	25
54	Isotopomer analysis of lipid biosynthesis by high resolution mass spectrometry and NMR. Analytica Chimica Acta, 2009, 651, 201-208.	2.6	79

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55	Metabolic acidosis and the importance of balanced equations. Metabolomics, 2009, 5, 163-165.	1.4	27
56	Altered regulation of metabolic pathways in human lung cancer discerned by 13C stable isotope-resolved metabolomics (SIRM). Molecular Cancer, 2009, 8, 41.	7.9	369
57	Stable isotopeâ€assisted metabolomics in cancer research. IUBMB Life, 2008, 60, 124-129.	1.5	40
58	Rhabdomyosarcoma cells show an energy producing anabolic metabolic phenotype compared with primary myocytes. Molecular Cancer, 2008, 7, 79.	7.9	61
59	Isotopomerâ€Based Metabolomic Analysis by NMR and Mass Spectrometry. Methods in Cell Biology, 2008, 84, 541-588.	0.5	109
60	Integrating Metabolomics and Transcriptomics for Probing Se Anticancer Mechanisms. Drug Metabolism Reviews, 2006, 38, 707-732.	1.5	56
61	Metabolomics-edited transcriptomics analysis of Se anticancer action in human lung cancer cells. Metabolomics, 2006, 1, 325-339.	1.4	57
62	13C-Tracer Studies of Soil Humic Substructures That Reduce Heavy Metal Leaching. ACS Symposium Series, 2005, , 138-157.	0.5	3
63	An electrophoretic proï¬ <del>l</del> ing method for thiol-rich phytochelatins and metallothioneins. Phytochemical Analysis, 2004, 15, 175-183.	1.2	24
64	Chronic Effects of Dietary Selenium on Juvenile Sacramento Splittail (Pogonichthysmacrolepidotus). Environmental Science & Technology, 2004, 38, 6085-6093.	4.6	64
65	The promise of metabolomics in cancer molecular therapeutics. Current Opinion in Molecular Therapeutics, 2004, 6, 584-92.	2.8	31
66	Selenium biotransformations into proteinaceous forms by foodweb organisms of selenium-laden drainage waters in California. Aquatic Toxicology, 2002, 57, 65-84.	1.9	192
67	Comprehensive chemical profiling of gramineous plant root exudates using high-resolution NMR and MS. Phytochemistry, 2001, 57, 209-221.	1.4	173
68	Title is missing!. Aquatic Ecology, 2000, 34, 413-420.	0.7	17
69	Genotypic Influence on Metal Ion Mobilization and Sequestration via Metal Ion Ligand Production by Wheat. ACS Symposium Series, 2000, , 417-431.	0.5	3
70	Chemical Characterization of a Chelator-Treated Soil Humate by Solution-State Multinuclear Two-Dimensional NMR with FTIR and Pyrolysis-GCMS. Environmental Science & Technology, 2000, 34, 1636-1646.	4.6	49
71	Sorption–desorption behavior of phenanthrene elucidated by pyrolysis–gas chromatographyâ€mass spectrometry studies of soil organic matter. Environmental Toxicology and Chemistry, 1999, 18, 1710-1719.	2.2	11
72	Synthesis and structure characterization of selenium metabolitesâ€. Analyst, The, 1998, 123, 875-884.	1.7	46

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73	Association of desferrioxamine with humic substances and their interaction with cadmium(II) as studied by pyrolysis–gas chromatography–mass spectrometry and nuclear magnetic resonance spectroscopyâ€. Analyst, The, 1998, 123, 911-918.	1.7	25
74	Biotransformations of Selenium Oxyanion by Filamentous Cyanophyte-Dominated Mat Cultured from Agricultural Drainage Waters. Environmental Science & Technology, 1998, 32, 3185-3193.	4.6	47
75	Anaerobic nitrate and ammonium metabolism in flood-tolerant rice coleoptiles. Journal of Experimental Botany, 1997, 48, 1655-1666.	2.4	67
76	Selenium Biotransformations by a Euryhaline Microalga Isolated from a Saline Evaporation Pond. Environmental Science & Technology, 1997, 31, 569-576.	4.6	82
77	Comprehensive Analysis of Organic Ligands in Whole Root Exudates Using Nuclear Magnetic Resonance and Gas Chromatography–Mass Spectrometry. Analytical Biochemistry, 1997, 251, 57-68.	1.1	132
78	Energy and Fermentation Metabolism in Hypoxic Rice Coleoptiles — A Multinuclear NMR Approach. , 1993, , 333-352.		5
79	Temperature dependence of arginine kinase reaction in the tail muscle of live Sycionia ingentis as measured in vivo by 31P-NMR driven saturation transfer. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1135, 44-49.	1.9	9
80	Hypoxia does not affect rate of ATP synthesis and energy metabolism in rice shoot tips as measured by 31P NMR in vivo. Archives of Biochemistry and Biophysics, 1992, 294, 314-318.	1.4	28
81	Emergence and recovery response of phosphate metabolites and intracellular pH in intact Mytilus edulis as examined in situ by in vivo 31P-NMR. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1092, 39-47.	1.9	25
82	Sublethal effects of pentachlorophenol in the abalone (haliotis rufescens) as measured by in vivo31P NMRSpectroscopy. Journal of Biochemical Toxicology, 1991, 6, 45-56.	0.5	29
83	Monitoring of metabolic responses of intactHaliotis (abalones) under salinity stress by31P surface probe localized NMR. The Journal of Experimental Zoology, 1989, 249, 350-356.	1.4	22
84	Reproducible nuclear magnetic resonance surface coil fabrication by combining computer-aided-design and a photoresist process. Analytical Chemistry, 1989, 61, 636-638.	3.2	16
85	An in vivo1H and 31P NMR investigation of the effect of nitrate on hypoxic metabolism in maize roots. Archives of Biochemistry and Biophysics, 1988, 266, 592-606.	1.4	57
86	Monitoring of hypoxic metabolism in superfused plant tissues by in vivo1H NMR. Archives of Biochemistry and Biophysics, 1986, 251, 674-687.	1.4	34
87	Combined use of 1H-NMR and GC-MS for metabolite monitoring and in vivo 1H-NMR assignments. Biochimica Et Biophysica Acta - General Subjects, 1986, 882, 154-167.	1.1	149