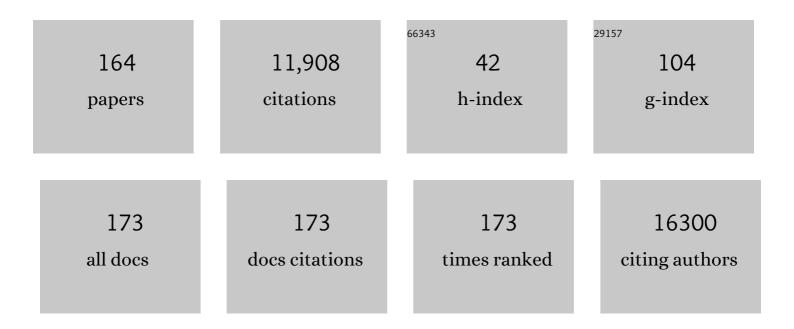
Jun Kikuchi

List of Publications by Year in descending order

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Іны Кікнені

#	Article	IF	CITATIONS
1	Commensal microbe-derived butyrate induces the differentiation of colonic regulatory T cells. Nature, 2013, 504, 446-450.	27.8	3,901
2	Bifidobacteria can protect from enteropathogenic infection through production of acetate. Nature, 2011, 469, 543-547.	27.8	1,836
3	Comparative Genome Analysis of Lactobacillus reuteri and Lactobacillus fermentum Reveal a Genomic Island for Reuterin and Cobalamin Production. DNA Research, 2008, 15, 151-161.	3.4	255
4	Parkin binds the Rpn10 subunit of 26S proteasomes through its ubiquitinâ€like domain. EMBO Reports, 2003, 4, 301-306.	4.5	233
5	Tuning water-use efficiency and drought tolerance in wheat using abscisic acid receptors. Nature Plants, 2019, 5, 153-159.	9.3	203
6	Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 725-730.	7.1	174
7	Dissection of genotype–phenotype associations in rice grains using metabolome quantitative trait loci analysis. Plant Journal, 2012, 70, 624-636.	5.7	173
8	Strengthening of the intestinal epithelial tight junction by <i>Bifidobacterium bifidum</i> . Physiological Reports, 2015, 3, e12327.	1.7	167
9	Spectroscopic and Mutational Analysis of the Blue-Light Photoreceptor AppA:Â A Novel Photocycle Involving Flavin Stacking with an Aromatic Amino Acidâ€. Biochemistry, 2003, 42, 6726-6734.	2.5	155
10	PRIMe: a Web site that assembles tools for metabolomics and transcriptomics. In Silico Biology, 2008, 8, 339-45.	0.9	149
11	Stable Isotope Labeling of Arabidopsis thaliana for an NMR-Based Metabolomics Approach. Plant and Cell Physiology, 2004, 45, 1099-1104.	3.1	145
12	Oral Administration of Porphyromonas gingivalis Alters the Gut Microbiome and Serum Metabolome. MSphere, 2018, 3, .	2.9	134
13	Probiotic Bifidobacterium longum alters gut luminal metabolism through modification of the gut microbial community. Scientific Reports, 2015, 5, 13548.	3.3	126
14	Statistical Indices for Simultaneous Large-Scale Metabolite Detections for a Single NMR Spectrum. Analytical Chemistry, 2010, 82, 1653-1658.	6.5	121
15	Recognition of Guanineâ^'Guanine Mismatches by the Dimeric Form of 2-Amino-1,8-naphthyridine. Journal of the American Chemical Society, 2001, 123, 12650-12657.	13.7	120
16	Multiple Omics Uncovers Host–Gut Microbial Mutualism During Prebiotic Fructooligosaccharide Supplementation. DNA Research, 2014, 21, 469-480.	3.4	101
17	Application of a Deep Neural Network to Metabolomics Studies and Its Performance in Determining Important Variables. Analytical Chemistry, 2018, 90, 1805-1810.	6.5	101
18	Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases. Nutrients, 2017, 9, 1329.	4.1	100

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19	Systematic NMR Analysis of Stable Isotope Labeled Metabolite Mixtures in Plant and Animal Systems: Coarse Grained Views of Metabolic Pathways. PLoS ONE, 2008, 3, e3805.	2.5	78
20	Multi-omics analysis on an agroecosystem reveals the significant role of organic nitrogen to increase agricultural crop yield. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14552-14560.	7.1	77
21	Toward better annotation in plant metabolomics: isolation and structure elucidation of 36 specialized metabolites from Oryza sativa (rice) by using MS/MS and NMR analyses. Metabolomics, 2014, 10, 543-555.	3.0	76
22	Methylated Cytokinins from the Phytopathogen <i>Rhodococcus fascians</i> Mimic Plant Hormone Activity. Plant Physiology, 2015, 169, 1118-1126.	4.8	75
23	Profiling Polar and Semipolar Plant Metabolites throughout Extraction Processes Using a Combined Solution-State and High-Resolution Magic Angle Spinning NMR Approach. Analytical Chemistry, 2010, 82, 1643-1652.	6.5	72
24	Evaluation of a Semipolar Solvent System as a Step toward Heteronuclear Multidimensional NMR-Based Metabolomics for ¹³ C-Labeled Bacteria, Plants, and Animals. Analytical Chemistry, 2011, 83, 719-726.	6.5	72
25	The Circadian Clock Modulates Water Dynamics and Aquaporin Expression in Arabidopsis Roots. Plant and Cell Physiology, 2011, 52, 373-383.	3.1	70
26	Organosolv pretreatment of sorghum bagasse using a low concentration of hydrophobic solvents such as 1-butanol or 1-pentanol. Biotechnology for Biofuels, 2016, 9, 27.	6.2	68
27	Towards dynamic metabolic network measurements by multi-dimensional NMR-based fluxomics. Phytochemistry, 2007, 68, 2320-2329.	2.9	64
28	Exploring the conformational space of amorphous cellulose using NMR chemical shifts. Carbohydrate Polymers, 2012, 90, 1197-1203.	10.2	61
29	SpinCouple: Development of a Web Tool for Analyzing Metabolite Mixtures via Two-Dimensional <i>J</i> . Resolved NMR Database. Analytical Chemistry, 2016, 88, 659-665.	6.5	61
30	Top-down Phenomics of Arabidopsis thaliana. Journal of Biological Chemistry, 2007, 282, 18532-18541.	3.4	58
31	Redox-Dependent Domain Rearrangement of Protein Disulfide Isomerase Coupled with Exposure of Its Substrate-Binding Hydrophobic Surface. Journal of Molecular Biology, 2010, 396, 361-374.	4.2	58
32	Metabolomic profiling of ¹³ C-labelled cellulose digestion in a lower termite: insights into gut symbiont function. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140990.	2.6	58
33	Evaluation and Characterization of Bacterial Metabolic Dynamics with a Novel Profiling Technique, Real-Time Metabolotyping. PLoS ONE, 2009, 4, e4893.	2.5	56
34	A NMR-based, non-targeted multistep metabolic profiling revealed l-rhamnitol as a metabolite that characterised apples from different geographic origins. Food Chemistry, 2015, 174, 163-172.	8.2	54
35	Comparative metabolomic and ionomic approach for abundant fishes in estuarine environments of Japan. Scientific Reports, 2014, 4, 7005.	3.3	53

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37	Comprehensive Signal Assignment of ¹³ C-Labeled Lignocellulose Using Multidimensional Solution NMR and ¹³ C Chemical Shift Comparison with Solid-State NMR. Analytical Chemistry, 2013, 85, 8857-8865.	6.5	48
38	Integrated Analysis of Seaweed Components during Seasonal Fluctuation by Data Mining Across Heterogeneous Chemical Measurements with Network Visualization. Analytical Chemistry, 2014, 86, 1098-1105.	6.5	48
39	Identification of Reliable Components in Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS): a Data-Driven Approach across Metabolic Processes. Scientific Reports, 2015, 5, 15710.	3.3	48
40	Profiling contents of water-soluble metabolites and mineral nutrients to evaluate the effects of pesticides and organic and chemical fertilizers on tomato fruit quality. Food Chemistry, 2015, 169, 387-395.	8.2	46
41	Effect of dielectric properties of solvents on the quality factor for a beyond 900MHz cryogenic probe model. Journal of Magnetic Resonance, 2005, 174, 34-42.	2.1	45
42	Practical Aspects of Uniform Stable Isotope Labeling of Higher Plants for Heteronuclear NMR-Based Metabolomics. Methods in Molecular Biology, 2007, 358, 273-286.	0.9	45
43	Dynamic Omics Approach Identifies Nutrition-Mediated Microbial Interactions. Journal of Proteome Research, 2011, 10, 824-836.	3.7	45
44	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cαâ€dehydrogenase from <i>Sphingobium</i> sp. strain <scp>SYK</scp> â€6. Plant Biotechnology Journal, 2015, 13, 821-832.	8.3	45
45	Improvement of physical, chemical and biological properties of aridisol from Botswana by the incorporation of torrefied biomass. Scientific Reports, 2016, 6, 28011.	3.3	44
46	Application of ensemble deep neural network to metabolomics studies. Analytica Chimica Acta, 2018, 1037, 230-236.	5.4	44
47	Intestinal microbiota composition is altered according to nutritional biorhythms in the leopard coral grouper (Plectropomus leopardus). PLoS ONE, 2018, 13, e0197256.	2.5	44
48	Environmental metabolomics with data science for investigating ecosystem homeostasis. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 104, 56-88.	7.5	43
49	Multidimensional High-Resolution Magic Angle Spinning and Solution-State NMR Characterization of 13C-labeled Plant Metabolites and Lignocellulose. Scientific Reports, 2015, 5, 11848.	3.3	42
50	Noninvasive analysis of metabolic changes following nutrient input into diverse fish species, as investigated by metabolic and microbial profiling approaches. PeerJ, 2014, 2, e550.	2.0	42
51	Rapid discrimination of strain-dependent fermentation characteristics among Lactobacillus strains by NMR-based metabolomics of fermented vegetable juice. PLoS ONE, 2017, 12, e0182229.	2.5	41
52	Solution Structure of the DFF-C Domain of DFF45/ICAD. A Structural Basis for the Regulation of Apoptotic DNA Fragmentation. Journal of Molecular Biology, 2002, 321, 317-327.	4.2	40
53	Characterization of lignocellulose of Erianthus arundinaceus in relation to enzymatic saccharification efficiency. Plant Biotechnology, 2013, 30, 25-35.	1.0	40
54	Chemical profiling of complex biochemical mixtures from various seaweeds. Polymer Journal, 2012, 44, 888-894.	2.7	39

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55	Comparative Analysis of Chemical and Microbial Profiles in Estuarine Sediments Sampled from Kanto and Tohoku Regions in Japan. Analytical Chemistry, 2014, 86, 5425-5432.	6.5	39
56	Pretreatment and Integrated Analysis of Spectral Data Reveal Seaweed Similarities Based on Chemical Diversity. Analytical Chemistry, 2015, 87, 2819-2826.	6.5	39
57	New monitoring approach for metabolic dynamics in microbial ecosystems using stable-isotope-labeling technologies. Journal of Bioscience and Bioengineering, 2010, 110, 87-93.	2.2	38
58	<i><scp>TBL</scp>10</i> is required for <i>O</i> â€acetylation of pectic rhamnogalacturonanâ€i in <i>Arabidopsis thaliana</i> . Plant Journal, 2018, 96, 772-785.	5.7	37
59	Metabolic Sequences of Anaerobic Fermentation on Glucose-Based Feeding Substrates Based on Correlation Analyses of Microbial and Metabolite Profiling. Journal of Proteome Research, 2012, 11, 5602-5610.	3.7	36
60	Statistical approach for solid-state NMR spectra of cellulose derived from a series of variable parameters. Polymer Journal, 2012, 44, 895-900.	2.7	35
61	Solubilization Mechanism and Characterization of the Structural Change of Bacterial Cellulose in Regenerated States through Ionic Liquid Treatment. Biomacromolecules, 2012, 13, 1323-1330.	5.4	34
62	Solid-, Solution-, and Gas-state NMR Monitoring of 13C-Cellulose Degradation in an Anaerobic Microbial Ecosystem. Molecules, 2013, 18, 9021-9033.	3.8	34
63	In vitro evaluation method for screening of candidate prebiotic foods. Food Chemistry, 2014, 152, 251-260.	8.2	34
64	Application of kernel principal component analysis and computational machine learning to exploration of metabolites strongly associated with diet. Scientific Reports, 2018, 8, 3426.	3.3	33
65	Cholesterol Doping Induced Enhanced Stability of Bicelles. Langmuir, 2003, 19, 9841-9844.	3.5	32
66	Oral Pathobiont-Induced Changes in Gut Microbiota Aggravate the Pathology of Nonalcoholic Fatty Liver Disease in Mice. Frontiers in Immunology, 2021, 12, 766170.	4.8	32
67	ECOMICS: A Web-Based Toolkit for Investigating the Biomolecular Web in Ecosystems Using a Trans-omics Approach. PLoS ONE, 2012, 7, e30263.	2.5	31
68	Selective Signal Detection in Solid-State NMR Using Rotor-Synchronized Dipolar Dephasing for the Analysis of Hemicellulose in Lignocellulosic Biomass. Journal of Physical Chemistry Letters, 2013, 4, 2279-2283.	4.6	31
69	Application of 1H NMR chemical shifts to measure the quality of protein structures. Journal of Molecular Biology, 1995, 247, 541-546.	4.2	30
70	Differences in Cellulosic Supramolecular Structure of Compositionally Similar Rice Straw Affect Biomass Metabolism by Paddy Soil Microbiota. PLoS ONE, 2013, 8, e66919.	2.5	30
71	Human Metabolic, Mineral, and Microbiota Fluctuations Across Daily Nutritional Intake Visualized by a Data-Driven Approach. Journal of Proteome Research, 2015, 14, 1526-1534.	3.7	28
72	Application of Market Basket Analysis for the Visualization of Transaction Data Based on Human Lifestyle and Spectroscopic Measurements. Analytical Chemistry, 2016, 88, 2714-2719.	6.5	28

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73	NMR-Based Metabolic Profiling of Field-Grown Leaves from Sugar Beet Plants Harbouring Different Levels of Resistance to Cercospora Leaf Spot Disease. Metabolites, 2017, 7, 4.	2.9	28
74	Impact of abiotic stress on the regulation of cell wall biosynthesis in <i>Populus trichocarpa</i> . Plant Biotechnology, 2020, 37, 273-283.	1.0	27
75	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D 1H-13C NMR. PLoS ONE, 2015, 10, e0128417.	2.5	26
76	Protonema of the moss Funaria hygrometrica can function as a lead (Pb) adsorbent. PLoS ONE, 2017, 12, e0189726.	2.5	25
77	Structure and Metabolicâ€Flow Analysis of Molecular Complexity in a ¹³ C‣abeled Tree by 2D and 3D NMR. Angewandte Chemie - International Edition, 2016, 55, 6000-6003.	13.8	24
78	Artificial Autopolyploidization Modifies the Tricarboxylic Acid Cycle and GABA Shunt in Arabidopsis thaliana Col-0. Scientific Reports, 2016, 6, 26515.	3.3	24
79	Toward the complete utilization of rice straw: Methane fermentation and lignin recovery by a combinational process involving mechanical milling, supporting material and nanofiltration. Bioresource Technology, 2016, 216, 830-837.	9.6	24
80	Transcriptome Analysis Uncovers a Growth-Promoting Activity of Orosomucoid-1 on Hepatocytes. EBioMedicine, 2017, 24, 257-266.	6.1	24
81	Trans-omics approaches used to characterise fish nutritional biorhythms in leopard coral grouper (Plectropomus leopardus). Scientific Reports, 2017, 7, 9372.	3.3	24
82	Application of Two-Dimensional Nuclear Magnetic Resonance for Signal Enhancement by Spectral Integration Using a Large Data Set of Metabolic Mixtures. Analytical Chemistry, 2016, 88, 6130-6134.	6.5	23
83	Systemic Homeostasis in Metabolome, Ionome, and Microbiome of Wild Yellowfin Goby in Estuarine Ecosystem. Scientific Reports, 2018, 8, 3478.	3.3	23
84	NMR-TS: de novo molecule identification from NMR spectra. Science and Technology of Advanced Materials, 2020, 21, 552-561.	6.1	23
85	Chemical Profiling of Jatropha Tissues under Different Torrefaction Conditions: Application to Biomass Waste Recovery. PLoS ONE, 2014, 9, e106893.	2.5	23
86	Biogeochemical Typing of Paddy Field by a Data-Driven Approach Revealing Sub-Systems within a Complex Environment - A Pipeline to Filtrate, Organize and Frame Massive Dataset from Multi-Omics Analyses. PLoS ONE, 2014, 9, e110723.	2.5	22
87	A survey of metabolic changes in potato leaves by NMRâ€based metabolic profiling in relation to resistance to late blight disease under field conditions. Magnetic Resonance in Chemistry, 2017, 55, 120-127.	1.9	22
88	Cellulose Digestion and Metabolism Induced Biocatalytic Transitions in Anaerobic Microbial Ecosystems. Metabolites, 2014, 4, 36-52.	2.9	21
89	Profiling Planktonic Biomass Using Element-Specific, Multicomponent Nuclear Magnetic Resonance Spectroscopy. Environmental Science & Technology, 2015, 49, 7056-7062.	10.0	21
90	Fragment Assembly Approach Based on Graph/Network Theory with Quantum Chemistry Verifications for Assigning Multidimensional NMR Signals in Metabolite Mixtures. ACS Chemical Biology, 2016, 11, 1030-1038.	3.4	21

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91	SENSI: signal enhancement by spectral integration for the analysis of metabolic mixtures. Chemical Communications, 2016, 52, 2964-2967.	4.1	21
92	Hydrophilic Double-Network Polymers that Sustain High Mechanical Modulus under 80% Humidity. ACS Macro Letters, 2012, 1, 432-436.	4.8	20
93	Multi-Spectroscopic Analysis of Seed Quality and 13C-Stable-lotopologue Monitoring in Initial Growth Metabolism of Jatropha curcas L Metabolites, 2014, 4, 1018-1033.	2.9	20
94	Precipitate obtained following membrane separation of hydrothermally pretreated rice straw liquid revealed by 2D NMR to have high lignin content. Biotechnology for Biofuels, 2015, 8, 88.	6.2	20
95	NMR window of molecular complexity showing homeostasis in superorganisms. Analyst, The, 2017, 142, 4161-4172.	3.5	20
96	Exploratory machine-learned theoretical chemical shifts can closely predict metabolic mixture signals. Chemical Science, 2018, 9, 8213-8220.	7.4	20
97	Deep phenotyping of myalgic encephalomyelitis/chronic fatigue syndrome in Japanese population. Scientific Reports, 2020, 10, 19933.	3.3	20
98	Solubility Prediction from Molecular Properties and Analytical Data Using an In-phase Deep Neural Network (Ip-DNN). ACS Omega, 2021, 6, 14278-14287.	3.5	20
99	InterSpin: Integrated Supportive Webtools for Low- and High-Field NMR Analyses Toward Molecular Complexity. ACS Omega, 2019, 4, 3361-3369.	3.5	19
100	Molecular diet analysis of Anguilliformes leptocephalus larvae collected in the western North Pacific. PLoS ONE, 2019, 14, e0225610.	2.5	19
101	A light-harvesting antenna protein retains its folded conformation in the absence of protein-lipid and protein-pigment interactions. , 1999, 49, 361-372.		18
102	Present Status of 920 MHz High-Resolution NMR Spectrometers. IEEE Transactions on Applied Superconductivity, 2004, 14, 1608-1612.	1.7	18
103	A unique unnatural base pair between a C analogue, pseudoisocytosine, and an A analogue, 6-methoxypurine, in replication. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1391-1393.	2.2	17
104	Solution structure determination of the two DNA-binding domains in the Schizosaccharomyces pombe Abp1 protein by a combination of dipolar coupling and diffusion anisotropy restraints. Journal of Biomolecular NMR, 2002, 22, 333-347.	2.8	17
105	Dietary intervention of mice using an improved Multiple Artificial-gravity Research System (MARS) under artificial 1 g. Npj Microgravity, 2019, 5, 16.	3.7	16
106	Metabolic movement upon abscisic acid and salicylic acid combined treatments. Plant Biotechnology, 2009, 26, 551-560.	1.0	16
107	Spectroscopic investigation of tissue-specific biomass profiling for Jatropha curcas L Plant Biotechnology, 2012, 29, 163-170.	1.0	15
108	Modification of plant cell wall structure accompanied by enhancement of saccharification efficiency using a chemical, lasalocid sodium. Scientific Reports, 2016, 6, 34602.	3.3	15

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109	Exploring the Impact of Food on the Gut Ecosystem Based on the Combination of Machine Learning and Network Visualization. Nutrients, 2017, 9, 1307.	4.1	15
110	Screening of fungi for decomposition of lignin-derived products from Japanese cedar. Journal of Bioscience and Bioengineering, 2018, 126, 573-579.	2.2	15
111	Spectroscopic investigation of tertiary fold of staphylococcal protein A to explore its engineering application. Biomaterials, 1999, 20, 647-654.	11.4	14
112	Metabolic dynamics analysis by massive data integration: application to tsunami-affected field soils in Japan. ACS Chemical Biology, 2015, 10, 1908-1915.	3.4	14
113	A potential network structure of symbiotic bacteria involved in carbon and nitrogen metabolism of wood-utilizing insect larvae. Science of the Total Environment, 2022, 836, 155520.	8.0	14
114	Structure and dynamics of photosynthetic membrane-bound proteins in Rhodobacter Sphaeroides, studied with solid-state NMR spectroscopy. Photosynthesis Research, 2000, 63, 259-267.	2.9	13
115	Visualization of Microfloral Metabolism for Marine Waste Recycling. Metabolites, 2016, 6, 7.	2.9	13
116	Use of 13C conformation-dependent chemical shifts to elucidate the local structure of a large protein with homologous domains in solution and solid state. Journal of Proteomics, 1999, 38, 203-208.	2.4	12
117	Signal Deconvolution and Noise Factor Analysis Based on a Combination of Time–Frequency Analysis and Probabilistic Sparse Matrix Factorization. International Journal of Molecular Sciences, 2020, 21, 2978.	4.1	12
118	An advantage for use of isotope labeling and NMR chemical shifts to analyze the structure of four homologous IgG-binding domains of staphylococcal protein A. Journal of Proteomics, 2000, 42, 35-47.	2.4	11
119	The Effect of Molecular Conformation on the Accuracy of Theoretical ¹ H and ¹³ C Chemical Shifts Calculated by Ab Initio Methods for Metabolic Mixture Analysis. Journal of Physical Chemistry B, 2016, 120, 3479-3487.	2.6	11
120	Mobile edge computing based VM migration for QoS improvement. , 2017, , .		11
121	Bacterial Substrate Transformation Tracked by Stable-Isotope-Guided NMR Metabolomics: Application in a Natural Aquatic Microbial Community. Metabolites, 2017, 7, 52.	2.9	11
122	Regional feature extraction of various fishes based on chemical and microbial variable selection using machine learning. Analytical Methods, 2018, 10, 2160-2168.	2.7	11
123	Decomposition Factor Analysis Based on Virtual Experiments throughout Bayesian Optimization for Compost-Degradable Polymers. Applied Sciences (Switzerland), 2021, 11, 2820.	2.5	11
124	Concentration of Metabolites from Low-density Planktonic Communities for Environmental Metabolomics using Nuclear Magnetic Resonance Spectroscopy. Journal of Visualized Experiments, 2012, , e3163.	0.3	10
125	Cannibalism Affects Core Metabolic Processes in Helicoverpa armigera Larvae—A 2D NMR Metabolomics Study. International Journal of Molecular Sciences, 2016, 17, 1470.	4.1	10
126	The exposome paradigm to predict environmental health in terms of systemic homeostasis and resource balance based on NMR data science. RSC Advances, 2021, 11, 30426-30447.	3.6	10

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127	Fish ecotyping based on machine learning and inferred network analysis of chemical and physical properties. Scientific Reports, 2021, 11, 3766.	3.3	10
128	Improved Prediction of Carbonless NMR Spectra by the Machine Learning of Theoretical and Fragment Descriptors for Environmental Mixture Analysis. Analytical Chemistry, 2021, 93, 6901-6906.	6.5	10
129	Development of KaPPA-View4 for omics studies on Jatropha and a database system KaPPA-Loader for construction of local omics databases. Plant Biotechnology, 2012, 29, 131-135.	1.0	9
130	FoodPro: A Web-Based Tool for Evaluating Covariance and Correlation NMR Spectra Associated with Food Processes. Metabolites, 2016, 6, 36.	2.9	9
131	Profiling physicochemical and planktonic features from discretely/continuously sampled surface water. Science of the Total Environment, 2018, 636, 12-19.	8.0	9
132	Large-Scale Evaluation of Major Soluble Macromolecular Components of Fish Muscle from a Conventional 1H-NMR Spectral Database. Molecules, 2020, 25, 1966.	3.8	9
133	Signal Deconvolution and Generative Topographic Mapping Regression for Solid-State NMR of Multi-Component Materials. International Journal of Molecular Sciences, 2021, 22, 1086.	4.1	8
134	Functional Analysis of Poplar Sombrero-Type NAC Transcription Factors Yields a Strategy to Modify Woody Cell Wall Properties. Plant and Cell Physiology, 2021, 62, 1963-1974.	3.1	8
135	Visualizing microbial dechlorination processes in underground ecosystem by statistical correlation and network analysis approach. Journal of Bioscience and Bioengineering, 2014, 117, 305-309.	2.2	7
136	Materials informatics approach using domain modelling for exploring structure–property relationships of polymers. Scientific Reports, 2022, 12, .	3.3	7
137	Thermal Analyses of Phospholipid Mixtures by Differential Scanning Calorimetry and Effect of Doping with a Bolaform Amphiphile. Bulletin of the Chemical Society of Japan, 2007, 80, 1208-1216.	3.2	6
138	18S rRNA gene sequences of leptocephalus gut contents, particulate organic matter, and biological oceanographic conditions in the western North Pacific. Scientific Reports, 2021, 11, 5488.	3.3	6
139	Enhancement of Secondary Cell Wall Formation in Poplar Xylem Using a Self-Reinforced System of Secondary Cell Wall-Related Transcription Factors. Frontiers in Plant Science, 2022, 13, 819360.	3.6	6
140	Noninvasive fecal metabolic profiling for the evaluation of characteristics of thermostable lactic acid bacteria, Weizmannia coagulans SANK70258, forÂbroilerÂchickens. Journal of Bioscience and Bioengineering, 2022, 134, 105-115.	2.2	6
141	Ethanol induces heat tolerance in plants by stimulating unfolded protein response. Plant Molecular Biology, 2022, 110, 131-145.	3.9	6
142	Structure Analysis of Proteins by a Combination of Distance Geometry Calculation and 1H NMR Chemical Shift Calculation Kobunshi Ronbunshu, 1994, 51, 409-413.	0.2	5
143	Structure and Metabolicâ€Flow Analysis of Molecular Complexity in a ¹³ C‣abeled Tree by 2D and 3D NMR. Angewandte Chemie, 2016, 128, 6104-6107.	2.0	5
144	Dynamics induced by environmental stochasticity in a phytoplankton-zooplankton system with toxic phytoplankton. Mathematical Biosciences and Engineering, 2021, 18, 4101-4126.	1.9	5

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145	Hetero-nuclear NMR-based Metabolomics. , 2006, , 93-101.		5
146	4.5 K Cooling System for a Cryogenically Cooled Probe for a 920 MHz NMR. AIP Conference Proceedings, 2004, , .	0.4	4
147	Spatial molecular-dynamically ordered NMR spectroscopy of intact bodies and heterogeneous systems. Communications Chemistry, 2020, 3, .	4.5	4
148	Relaxometric learning: a pattern recognition method for T2 relaxation curves based on machine learning supported by an analytical framework. BMC Chemistry, 2021, 15, 13.	3.8	4
149	Chemometric Analysis of NMR Spectra and Machine Learning to Investigate Membrane Fouling. ACS Omega, 2022, 7, 12654-12660.	3.5	4
150	Integrative measurement analysis via machine learning descriptor selection for investigating physical properties of biopolymers in hairs. Scientific Reports, 2021, 11, 24359.	3.3	4
151	Identifying a Correlation among Qualitative Non-Numeric Parameters in Natural Fish Microbe Dataset Using Machine Learning. Applied Sciences (Switzerland), 2022, 12, 5927.	2.5	4
152	Dynamics of a stochastic non-autonomous phytoplankton–zooplankton system involving toxin-producing phytoplankton and impulsive perturbations. Mathematics and Computers in Simulation, 2023, 203, 368-386.	4.4	4
153	Conformations of Synthetic Model Peptides for Plasmodium falciparum Circumsporozoite Protein in Me2SO by 1H NMR and Distance Geometry Calculations. Polymer Journal, 1995, 27, 347-360.	2.7	2
154	Structural and Functional Characterization of a Mutant of Pseudocerastes persicus Natriuretic Peptide. Protein and Peptide Letters, 2006, 13, 295-300.	0.9	2
155	Differences in glucose yield of residues from among varieties of rice, wheat, and sorghum after dilute acid pretreatment. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1650-1656.	1.3	2
156	[Dedicated to Prof. T. Okada and Prof. T. Nishioka: data science in chemistry]Visualizing Individual and Region-specific Microbial–metabolite Relations by Important Variable Selection Using Machine Learning Approaches. Journal of Computer Aided Chemistry, 2017, 18, 31-41.	0.3	2
157	CHAPTER 17. Polysaccharides as Major Carbon Sources in Environmental Biodiversity. New Developments in NMR, 0, , 369-395.	0.1	2
158	ECOMICS:Ecosystem Trans-OMICS Tools and Methods for Complex Environmental Samples and Datasets. Journal of Ecosystem & Ecography, 2013, 03, .	0.2	2
159	NMR Analysis of Molecular Complexity. , 2018, , 461-489.		1
160	Practical Aspects of the Analysis of Low- and High-Field NMR Data from Environmental Samples. Methods in Molecular Biology, 2019, 2037, 315-331.	0.9	1
161	Parameter Visualization of Benchtop Nuclear Magnetic Resonance Spectra toward Food Process Monitoring. Processes, 2022, 10, 1264.	2.8	1
162	New Aquaculture Technology Based on Host-Symbiotic Co-metabolism. , 2019, , 189-228.		0

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163	Gut Microbe Transformation of Natural Products: Plant Polysaccharides Are Metabolized by Animal Symbionts. , 2020, , 519-528.		0
164	Practical Aspects of Uniform Stable Isotope Labeling of Higher Plants for Heteronuclear NMR-Based Metabolomics. , 0, , 273-286.		0