

Jun Kikuchi

List of Publications by Year in descending order

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164
papers

11,908
citations

66315

42
h-index

29127

104
g-index

173
all docs

173
docs citations

173
times ranked

16300
citing authors

#	ARTICLE	IF	CITATIONS
1	Commensal microbe-derived butyrate induces the differentiation of colonic regulatory T cells. <i>Nature</i> , 2013, 504, 446-450.	13.7	3,901
2	Bifidobacteria can protect from enteropathogenic infection through production of acetate. <i>Nature</i> , 2011, 469, 543-547.	13.7	1,836
3	Comparative Genome Analysis of <i>Lactobacillus reuteri</i> and <i>Lactobacillus fermentum</i> Reveal a Genomic Island for Reuterin and Cobalamin Production. <i>DNA Research</i> , 2008, 15, 151-161.	1.5	255
4	Parkin binds the Rpn10 subunit of 26S proteasomes through its ubiquitin-like domain. <i>EMBO Reports</i> , 2003, 4, 301-306.	2.0	233
5	Tuning water-use efficiency and drought tolerance in wheat using abscisic acid receptors. <i>Nature Plants</i> , 2019, 5, 153-159.	4.7	203
6	Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 725-730.	3.3	174
7	Dissection of genotype-phenotype associations in rice grains using metabolome quantitative trait loci analysis. <i>Plant Journal</i> , 2012, 70, 624-636.	2.8	173
8	Strengthening of the intestinal epithelial tight junction by <i>Bifidobacterium bifidum</i> . <i>Physiological Reports</i> , 2015, 3, e12327.	0.7	167
9	Spectroscopic and Mutational Analysis of the Blue-Light Photoreceptor AppA: A Novel Photocycle Involving Flavin Stacking with an Aromatic Amino Acid. <i>Biochemistry</i> , 2003, 42, 6726-6734.	1.2	155
10	PRIME: a Web site that assembles tools for metabolomics and transcriptomics. <i>In Silico Biology</i> , 2008, 8, 339-45.	0.4	149
11	Stable Isotope Labeling of <i>Arabidopsis thaliana</i> for an NMR-Based Metabolomics Approach. <i>Plant and Cell Physiology</i> , 2004, 45, 1099-1104.	1.5	145
12	Oral Administration of <i>Porphyromonas gingivalis</i> Alters the Gut Microbiome and Serum Metabolome. <i>MSphere</i> , 2018, 3, .	1.3	134
13	Probiotic <i>Bifidobacterium longum</i> alters gut luminal metabolism through modification of the gut microbial community. <i>Scientific Reports</i> , 2015, 5, 13548.	1.6	126
14	Statistical Indices for Simultaneous Large-Scale Metabolite Detections for a Single NMR Spectrum. <i>Analytical Chemistry</i> , 2010, 82, 1653-1658.	3.2	121
15	Recognition of Guanine-Guanine Mismatches by the Dimeric Form of 2-Amino-1,8-naphthyridine. <i>Journal of the American Chemical Society</i> , 2001, 123, 12650-12657.	6.6	120
16	Multiple Omics Uncover Host-Gut Microbial Mutualism During Prebiotic Fructooligosaccharide Supplementation. <i>DNA Research</i> , 2014, 21, 469-480.	1.5	101
17	Application of a Deep Neural Network to Metabolomics Studies and Its Performance in Determining Important Variables. <i>Analytical Chemistry</i> , 2018, 90, 1805-1810.	3.2	101
18	Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases. <i>Nutrients</i> , 2017, 9, 1329.	1.7	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. <i>PLoS ONE</i> , 2008, 3, e3805.	1.1	78
20	Multi-omics analysis on an agroecosystem reveals the significant role of organic nitrogen to increase agricultural crop yield. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14552-14560.	3.3	77
21	Toward better annotation in plant metabolomics: isolation and structure elucidation of 36 specialized metabolites from <i>Oryza sativa</i> (rice) by using MS/MS and NMR analyses. <i>Metabolomics</i> , 2014, 10, 543-555.	1.4	76
22	Methylated Cytokinins from the Phytopathogen <i>Rhodococcus fascians</i> Mimic Plant Hormone Activity. <i>Plant Physiology</i> , 2015, 169, 1118-1126.	2.3	75
23	Profiling Polar and Semipolar Plant Metabolites throughout Extraction Processes Using a Combined Solution-State and High-Resolution Magic Angle Spinning NMR Approach. <i>Analytical Chemistry</i> , 2010, 82, 1643-1652.	3.2	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. <i>Analytical Chemistry</i> , 2011, 83, 719-726.	3.2	72
25	The Circadian Clock Modulates Water Dynamics and Aquaporin Expression in <i>Arabidopsis</i> Roots. <i>Plant and Cell Physiology</i> , 2011, 52, 373-383.	1.5	70
26	Organosolv pretreatment of sorghum bagasse using a low concentration of hydrophobic solvents such as 1-butanol or 1-pentanol. <i>Biotechnology for Biofuels</i> , 2016, 9, 27.	6.2	68
27	Towards dynamic metabolic network measurements by multi-dimensional NMR-based fluxomics. <i>Phytochemistry</i> , 2007, 68, 2320-2329.	1.4	64
28	Exploring the conformational space of amorphous cellulose using NMR chemical shifts. <i>Carbohydrate Polymers</i> , 2012, 90, 1197-1203.	5.1	61
29	SpinCouple: Development of a Web Tool for Analyzing Metabolite Mixtures via Two-Dimensional <i>i</i> -Resolved NMR Database. <i>Analytical Chemistry</i> , 2016, 88, 659-665.	3.2	61
30	Top-down Phenomics of <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 18532-18541.	1.6	58
31	Redox-Dependent Domain Rearrangement of Protein Disulfide Isomerase Coupled with Exposure of Its Substrate-Binding Hydrophobic Surface. <i>Journal of Molecular Biology</i> , 2010, 396, 361-374.	2.0	58
32	Metabolomic profiling of ¹³ C-labelled cellulose digestion in a lower termite: insights into gut symbiont function. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140990.	1.2	58
33	Evaluation and Characterization of Bacterial Metabolic Dynamics with a Novel Profiling Technique, Real-Time Metabolotyping. <i>PLoS ONE</i> , 2009, 4, e4893.	1.1	56
34	A NMR-based, non-targeted multistep metabolic profiling revealed l-rhamnitol as a metabolite that characterised apples from different geographic origins. <i>Food Chemistry</i> , 2015, 174, 163-172.	4.2	54
35	Comparative metabolomic and ionic approach for abundant fishes in estuarine environments of Japan. <i>Scientific Reports</i> , 2014, 4, 7005.	1.6	53
36	Correlation exploration of metabolic and genomic diversity in rice. <i>BMC Genomics</i> , 2009, 10, 568.	1.2	50

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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. <i>Analytical Chemistry</i> , 2013, 85, 8857-8865.	3.2	48
38	Integrated Analysis of Seaweed Components during Seasonal Fluctuation by Data Mining Across Heterogeneous Chemical Measurements with Network Visualization. <i>Analytical Chemistry</i> , 2014, 86, 1098-1105.	3.2	48
39	Identification of Reliable Components in Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS): a Data-Driven Approach across Metabolic Processes. <i>Scientific Reports</i> , 2015, 5, 15710.	1.6	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. <i>Food Chemistry</i> , 2015, 169, 387-395.	4.2	46
41	Effect of dielectric properties of solvents on the quality factor for a beyond 900MHz cryogenic probe model. <i>Journal of Magnetic Resonance</i> , 2005, 174, 34-42.	1.2	45
42	Practical Aspects of Uniform Stable Isotope Labeling of Higher Plants for Heteronuclear NMR-Based Metabolomics. <i>Methods in Molecular Biology</i> , 2007, 358, 273-286.	0.4	45
43	Dynamic Omics Approach Identifies Nutrition-Mediated Microbial Interactions. <i>Journal of Proteome Research</i> , 2011, 10, 824-836.	1.8	45
44	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cl ⁻ â€hydrogenase from <i>Sphingobium</i> sp. strain <i>SYK</i> . <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	4.1	45
45	Improvement of physical, chemical and biological properties of aridisol from Botswana by the incorporation of torrefied biomass. <i>Scientific Reports</i> , 2016, 6, 28011.	1.6	44
46	Application of ensemble deep neural network to metabolomics studies. <i>Analytica Chimica Acta</i> , 2018, 1037, 230-236.	2.6	44
47	Intestinal microbiota composition is altered according to nutritional biorhythms in the leopard coral grouper (<i>Plectropomus leopardus</i>). <i>PLoS ONE</i> , 2018, 13, e0197256.	1.1	44
48	Environmental metabolomics with data science for investigating ecosystem homeostasis. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018, 104, 56-88.	3.9	43
49	Multidimensional High-Resolution Magic Angle Spinning and Solution-State NMR Characterization of ¹³ C-labeled Plant Metabolites and Lignocellulose. <i>Scientific Reports</i> , 2015, 5, 11848.	1.6	42
50	Noninvasive analysis of metabolic changes following nutrient input into diverse fish species, as investigated by metabolic and microbial profiling approaches. <i>PeerJ</i> , 2014, 2, e550.	0.9	42
51	Rapid discrimination of strain-dependent fermentation characteristics among <i>Lactobacillus</i> strains by NMR-based metabolomics of fermented vegetable juice. <i>PLoS ONE</i> , 2017, 12, e0182229.	1.1	41
52	Solution Structure of the DFF-C Domain of DFF45/ICAD. A Structural Basis for the Regulation of Apoptotic DNA Fragmentation. <i>Journal of Molecular Biology</i> , 2002, 321, 317-327.	2.0	40
53	Characterization of lignocellulose of <i>Erianthus arundinaceus</i> in relation to enzymatic saccharification efficiency. <i>Plant Biotechnology</i> , 2013, 30, 25-35.	0.5	40
54	Chemical profiling of complex biochemical mixtures from various seaweeds. <i>Polymer Journal</i> , 2012, 44, 888-894.	1.3	39

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55	Comparative Analysis of Chemical and Microbial Profiles in Estuarine Sediments Sampled from Kanto and Tohoku Regions in Japan. <i>Analytical Chemistry</i> , 2014, 86, 5425-5432.	3.2	39
56	Pretreatment and Integrated Analysis of Spectral Data Reveal Seaweed Similarities Based on Chemical Diversity. <i>Analytical Chemistry</i> , 2015, 87, 2819-2826.	3.2	39
57	New monitoring approach for metabolic dynamics in microbial ecosystems using stable-isotope-labeling technologies. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 87-93.	1.1	38
58	U6acetylation of pectic rhamnogalacturonan in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 96, 772-785.	2.8	37
59	Metabolic Sequences of Anaerobic Fermentation on Glucose-Based Feeding Substrates Based on Correlation Analyses of Microbial and Metabolite Profiling. <i>Journal of Proteome Research</i> , 2012, 11, 5602-5610.	1.8	36
60	Statistical approach for solid-state NMR spectra of cellulose derived from a series of variable parameters. <i>Polymer Journal</i> , 2012, 44, 895-900.	1.3	35
61	Solubilization Mechanism and Characterization of the Structural Change of Bacterial Cellulose in Regenerated States through Ionic Liquid Treatment. <i>Biomacromolecules</i> , 2012, 13, 1323-1330.	2.6	34
62	Solid-, Solution-, and Gas-state NMR Monitoring of 13C-Cellulose Degradation in an Anaerobic Microbial Ecosystem. <i>Molecules</i> , 2013, 18, 9021-9033.	1.7	34
63	In vitro evaluation method for screening of candidate prebiotic foods. <i>Food Chemistry</i> , 2014, 152, 251-260.	4.2	34
64	Application of kernel principal component analysis and computational machine learning to exploration of metabolites strongly associated with diet. <i>Scientific Reports</i> , 2018, 8, 3426.	1.6	33
65	Cholesterol Doping Induced Enhanced Stability of Bicelles. <i>Langmuir</i> , 2003, 19, 9841-9844.	1.6	32
66	Oral Pathobiont-Induced Changes in Gut Microbiota Aggravate the Pathology of Nonalcoholic Fatty Liver Disease in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 766170.	2.2	32
67	ECOMICS: A Web-Based Toolkit for Investigating the Biomolecular Web in Ecosystems Using a Trans-omics Approach. <i>PLoS ONE</i> , 2012, 7, e30263.	1.1	31
68	Selective Signal Detection in Solid-State NMR Using Rotor-Synchronized Dipolar Dephasing for the Analysis of Hemicellulose in Lignocellulosic Biomass. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2279-2283.	2.1	31
69	Application of 1H NMR chemical shifts to measure the quality of protein structures. <i>Journal of Molecular Biology</i> , 1995, 247, 541-546.	2.0	30
70	Differences in Cellulosic Supramolecular Structure of Compositionally Similar Rice Straw Affect Biomass Metabolism by Paddy Soil Microbiota. <i>PLoS ONE</i> , 2013, 8, e66919.	1.1	30
71	Human Metabolic, Mineral, and Microbiota Fluctuations Across Daily Nutritional Intake Visualized by a Data-Driven Approach. <i>Journal of Proteome Research</i> , 2015, 14, 1526-1534.	1.8	28
72	Application of Market Basket Analysis for the Visualization of Transaction Data Based on Human Lifestyle and Spectroscopic Measurements. <i>Analytical Chemistry</i> , 2016, 88, 2714-2719.	3.2	28

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73	NMR-Based Metabolic Profiling of Field-Grown Leaves from Sugar Beet Plants Harboring Different Levels of Resistance to <i>Cercospora</i> Leaf Spot Disease. <i>Metabolites</i> , 2017, 7, 4.	1.3	28
74	Impact of abiotic stress on the regulation of cell wall biosynthesis in <i>Populus trichocarpa</i> . <i>Plant Biotechnology</i> , 2020, 37, 273-283.	0.5	27
75	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D ¹ H- ¹³ C NMR. <i>PLoS ONE</i> , 2015, 10, e0128417.	1.1	26
76	Protonema of the moss <i>Funaria hygrometrica</i> can function as a lead (Pb) adsorbent. <i>PLoS ONE</i> , 2017, 12, e0189726.	1.1	25
77	Structure and Metabolic Flow Analysis of Molecular Complexity in a ¹³ C-Labeled Tree by 2D and 3D NMR. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6000-6003.	7.2	24
78	Artificial Autopolyploidization Modifies the Tricarboxylic Acid Cycle and GABA Shunt in <i>Arabidopsis thaliana</i> Col-0. <i>Scientific Reports</i> , 2016, 6, 26515.	1.6	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. <i>Bioresource Technology</i> , 2016, 216, 830-837.	4.8	24
80	Transcriptome Analysis Uncovers a Growth-Promoting Activity of Orosomucoid-1 on Hepatocytes. <i>EBioMedicine</i> , 2017, 24, 257-266.	2.7	24
81	Trans-omics approaches used to characterise fish nutritional biorhythms in leopard coral grouper (<i>Plectropomus leopardus</i>). <i>Scientific Reports</i> , 2017, 7, 9372.	1.6	24
82	Application of Two-Dimensional Nuclear Magnetic Resonance for Signal Enhancement by Spectral Integration Using a Large Data Set of Metabolic Mixtures. <i>Analytical Chemistry</i> , 2016, 88, 6130-6134.	3.2	23
83	Systemic Homeostasis in Metabolome, Ionome, and Microbiome of Wild Yellowfin Goby in Estuarine Ecosystem. <i>Scientific Reports</i> , 2018, 8, 3478.	1.6	23
84	NMR-TS: de novo molecule identification from NMR spectra. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 552-561.	2.8	23
85	Chemical Profiling of <i>Jatropha</i> Tissues under Different Torrefaction Conditions: Application to Biomass Waste Recovery. <i>PLoS ONE</i> , 2014, 9, e106893.	1.1	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. <i>PLoS ONE</i> , 2014, 9, e110723.	1.1	22
87	A survey of metabolic changes in potato leaves by NMR-based metabolic profiling in relation to resistance to late blight disease under field conditions. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 120-127.	1.1	22
88	Cellulose Digestion and Metabolism Induced Biocatalytic Transitions in Anaerobic Microbial Ecosystems. <i>Metabolites</i> , 2014, 4, 36-52.	1.3	21
89	Profiling Planktonic Biomass Using Element-Specific, Multicomponent Nuclear Magnetic Resonance Spectroscopy. <i>Environmental Science & Technology</i> , 2015, 49, 7056-7062.	4.6	21
90	Fragment Assembly Approach Based on Graph/Network Theory with Quantum Chemistry Verifications for Assigning Multidimensional NMR Signals in Metabolite Mixtures. <i>ACS Chemical Biology</i> , 2016, 11, 1030-1038.	1.6	21

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91	SENSI: signal enhancement by spectral integration for the analysis of metabolic mixtures. <i>Chemical Communications</i> , 2016, 52, 2964-2967.	2.2	21
92	Hydrophilic Double-Network Polymers that Sustain High Mechanical Modulus under 80% Humidity. <i>ACS Macro Letters</i> , 2012, 1, 432-436.	2.3	20
93	Multi-Spectroscopic Analysis of Seed Quality and ¹³ C-Stable-Isotope Monitoring in Initial Growth Metabolism of <i>Jatropha curcas</i> L.. <i>Metabolites</i> , 2014, 4, 1018-1033.	1.3	20
94	Precipitate obtained following membrane separation of hydrothermally pretreated rice straw liquid revealed by 2D NMR to have high lignin content. <i>Biotechnology for Biofuels</i> , 2015, 8, 88.	6.2	20
95	NMR window of molecular complexity showing homeostasis in superorganisms. <i>Analyst</i> , 2017, 142, 4161-4172.	1.7	20
96	Exploratory machine-learned theoretical chemical shifts can closely predict metabolic mixture signals. <i>Chemical Science</i> , 2018, 9, 8213-8220.	3.7	20
97	Deep phenotyping of myalgic encephalomyelitis/chronic fatigue syndrome in Japanese population. <i>Scientific Reports</i> , 2020, 10, 19933.	1.6	20
98	Solubility Prediction from Molecular Properties and Analytical Data Using an In-phase Deep Neural Network (Ip-DNN). <i>ACS Omega</i> , 2021, 6, 14278-14287.	1.6	20
99	InterSpin: Integrated Supportive Webtools for Low- and High-Field NMR Analyses Toward Molecular Complexity. <i>ACS Omega</i> , 2019, 4, 3361-3369.	1.6	19
100	Molecular diet analysis of <i>Anguilliformes leptocephalus</i> larvae collected in the western North Pacific. <i>PLoS ONE</i> , 2019, 14, e0225610.	1.1	19
101	A light-harvesting antenna protein retains its folded conformation in the absence of protein-lipid and protein-pigment interactions. <i>Journal of Molecular Biology</i> , 1999, 49, 361-372.		18
102	Present Status of 920 MHz High-Resolution NMR Spectrometers. <i>IEEE Transactions on Applied Superconductivity</i> , 2004, 14, 1608-1612.	1.1	18
103	A unique unnatural base pair between a C analogue, pseudoisocytosine, and an A analogue, 6-methoxypurine, in replication. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1391-1393.	1.0	17
104	Solution structure determination of the two DNA-binding domains in the <i>Schizosaccharomyces pombe</i> Abp1 protein by a combination of dipolar coupling and diffusion anisotropy restraints. <i>Journal of Biomolecular NMR</i> , 2002, 22, 333-347.	1.6	17
105	Dietary intervention of mice using an improved Multiple Artificial-gravity Research System (MARS) under artificial 1g. <i>Npj Microgravity</i> , 2019, 5, 16.	1.9	16
106	Metabolic movement upon abscisic acid and salicylic acid combined treatments. <i>Plant Biotechnology</i> , 2009, 26, 551-560.	0.5	16
107	Spectroscopic investigation of tissue-specific biomass profiling for <i>Jatropha curcas</i> L.. <i>Plant Biotechnology</i> , 2012, 29, 163-170.	0.5	15
108	Modification of plant cell wall structure accompanied by enhancement of saccharification efficiency using a chemical, lasalocid sodium. <i>Scientific Reports</i> , 2016, 6, 34602.	1.6	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. <i>Nutrients</i> , 2017, 9, 1307.	1.7	15
110	Screening of fungi for decomposition of lignin-derived products from Japanese cedar. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 573-579.	1.1	15
111	Spectroscopic investigation of tertiary fold of staphylococcal protein A to explore its engineering application. <i>Biomaterials</i> , 1999, 20, 647-654.	5.7	14
112	Metabolic dynamics analysis by massive data integration: application to tsunami-affected field soils in Japan. <i>ACS Chemical Biology</i> , 2015, 10, 1908-1915.	1.6	14
113	A potential network structure of symbiotic bacteria involved in carbon and nitrogen metabolism of wood-utilizing insect larvae. <i>Science of the Total Environment</i> , 2022, 836, 155520.	3.9	14
114	Structure and dynamics of photosynthetic membrane-bound proteins in <i>Rhodobacter Sphaeroides</i> , studied with solid-state NMR spectroscopy. <i>Photosynthesis Research</i> , 2000, 63, 259-267.	1.6	13
115	Visualization of Microfloral Metabolism for Marine Waste Recycling. <i>Metabolites</i> , 2016, 6, 7.	1.3	13
116	Use of ¹³ C conformation-dependent chemical shifts to elucidate the local structure of a large protein with homologous domains in solution and solid state. <i>Journal of Proteomics</i> , 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. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2978.	1.8	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. <i>Journal of Proteomics</i> , 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. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3479-3487.	1.2	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. <i>Metabolites</i> , 2017, 7, 52.	1.3	11
122	Regional feature extraction of various fishes based on chemical and microbial variable selection using machine learning. <i>Analytical Methods</i> , 2018, 10, 2160-2168.	1.3	11
123	Decomposition Factor Analysis Based on Virtual Experiments throughout Bayesian Optimization for Compost-Degradable Polymers. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2820.	1.3	11
124	Concentration of Metabolites from Low-density Planktonic Communities for Environmental Metabolomics using Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Visualized Experiments</i> , 2012, , e3163.	0.2	10
125	Cannibalism Affects Core Metabolic Processes in <i>Helicoverpa armigera</i> Larvae—A 2D NMR Metabolomics Study. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1470.	1.8	10
126	The exposome paradigm to predict environmental health in terms of systemic homeostasis and resource balance based on NMR data science. <i>RSC Advances</i> , 2021, 11, 30426-30447.	1.7	10

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127	Fish ecotyping based on machine learning and inferred network analysis of chemical and physical properties. <i>Scientific Reports</i> , 2021, 11, 3766.	1.6	10
128	Improved Prediction of Carbonless NMR Spectra by the Machine Learning of Theoretical and Fragment Descriptors for Environmental Mixture Analysis. <i>Analytical Chemistry</i> , 2021, 93, 6901-6906.	3.2	10
129	Development of KaPPA-View4 for omics studies on <i>Jatropha</i> and a database system KaPPA-Loader for construction of local omics databases. <i>Plant Biotechnology</i> , 2012, 29, 131-135.	0.5	9
130	FoodPro: A Web-Based Tool for Evaluating Covariance and Correlation NMR Spectra Associated with Food Processes. <i>Metabolites</i> , 2016, 6, 36.	1.3	9
131	Profiling physicochemical and planktonic features from discretely/continuously sampled surface water. <i>Science of the Total Environment</i> , 2018, 636, 12-19.	3.9	9
132	Large-Scale Evaluation of Major Soluble Macromolecular Components of Fish Muscle from a Conventional ¹ H-NMR Spectral Database. <i>Molecules</i> , 2020, 25, 1966.	1.7	9
133	Signal Deconvolution and Generative Topographic Mapping Regression for Solid-State NMR of Multi-Component Materials. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1086.	1.8	8
134	Functional Analysis of Poplar Sombrero-Type NAC Transcription Factors Yields a Strategy to Modify Woody Cell Wall Properties. <i>Plant and Cell Physiology</i> , 2021, 62, 1963-1974.	1.5	8
135	Visualizing microbial dechlorination processes in underground ecosystem by statistical correlation and network analysis approach. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 305-309.	1.1	7
136	Materials informatics approach using domain modelling for exploring structure–property relationships of polymers. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
137	Thermal Analyses of Phospholipid Mixtures by Differential Scanning Calorimetry and Effect of Doping with a Bolaform Amphiphile. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1208-1216.	2.0	6
138	18S rRNA gene sequences of leptocephalus gut contents, particulate organic matter, and biological oceanographic conditions in the western North Pacific. <i>Scientific Reports</i> , 2021, 11, 5488.	1.6	6
139	Enhancement of Secondary Cell Wall Formation in Poplar Xylem Using a Self-Reinforced System of Secondary Cell Wall-Related Transcription Factors. <i>Frontiers in Plant Science</i> , 2022, 13, 819360.	1.7	6
140	Noninvasive fecal metabolic profiling for the evaluation of characteristics of thermostable lactic acid bacteria, <i>Weizmannia coagulans</i> SANK70258, for broiler chickens. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 105-115.	1.1	6
141	Ethanol induces heat tolerance in plants by stimulating unfolded protein response. <i>Plant Molecular Biology</i> , 2022, 110, 131-145.	2.0	6
142	Structure Analysis of Proteins by a Combination of Distance Geometry Calculation and ¹ H NMR Chemical Shift Calculation.. <i>Kobunshi Ronbunshu</i> , 1994, 51, 409-413.	0.2	5
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