Jun Kikuchi

List of Publications by Year in descending order

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164	11,908	66343	29157
papers	citations	42 h-index	104 g-index

173	173	173	16300
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamics of a stochastic non-autonomous phytoplanktonâ€“zooplankton system involving toxin-producing phytoplankton and impulsive perturbations. Mathematics and Computers in Simulation, 2023, 203, 368-386.	4.4	4
2	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
3	Chemometric Analysis of NMR Spectra and Machine Learning to Investigate Membrane Fouling. ACS Omega, 2022, 7, 12654-12660.	3.5	4
4	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
5	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
6	Materials informatics approach using domain modelling for exploring structureâ€“property relationships of polymers. Scientific Reports, 2022, 12, .	3.3	7
7	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
8	Ethanol induces heat tolerance in plants by stimulating unfolded protein response. Plant Molecular Biology, 2022, 110, 131-145.	3.9	6
9	Parameter Visualization of Benchtop Nuclear Magnetic Resonance Spectra toward Food Process Monitoring. Processes, 2022, 10, 1264.	2.8	1
10	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
11	Dynamics induced by environmental stochasticity in a phytoplankton-zooplankton system with toxic phytoplankton. Mathematical Biosciences and Engineering, 2021, 18, 4101-4126.	1.9	5
12	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
13	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
14	Fish ecotyping based on machine learning and inferred network analysis of chemical and physical properties. Scientific Reports, 2021, 11, 3766.	3.3	10
15	Decomposition Factor Analysis Based on Virtual Experiments throughout Bayesian Optimization for Compost-Degradable Polymers. Applied Sciences (Switzerland), 2021, 11, 2820.	2.5	11
16	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
17	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
18	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

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19	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
20	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
21	Integrative measurement analysis via machine learning descriptor selection for investigating physical properties of biopolymers in hairs. Scientific Reports, 2021, 11, 24359.	3.3	4
22	Gut Microbe Transformation of Natural Products: Plant Polysaccharides Are Metabolized by Animal Symbionts. , 2020, , 519-528.		0
23	NMR-TS: de novo molecule identification from NMR spectra. Science and Technology of Advanced Materials, 2020, 21, 552-561.	6.1	23
24	Deep phenotyping of myalgic encephalomyelitis/chronic fatigue syndrome in Japanese population. Scientific Reports, 2020, 10, 19933.	3.3	20
25	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
26	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
27	Spatial molecular-dynamically ordered NMR spectroscopy of intact bodies and heterogeneous systems. Communications Chemistry, 2020, 3, .	4.5	4
28	Signal Deconvolution and Noise Factor Analysis Based on a Combination of Timeâ€“Frequency Analysis and Probabilistic Sparse Matrix Factorization. International Journal of Molecular Sciences, 2020, 21, 2978.	4.1	12
29	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
30	New Aquaculture Technology Based on Host-Symbiotic Co-metabolism. , 2019, , 189-228.		0
31	Dietary intervention of mice using an improved Multiple Artificial-gravity Research System (MARS) under artificial 1â€‰g. Npj Microgravity, 2019, 5, 16.	3.7	16
32	Tuning water-use efficiency and drought tolerance in wheat using abscisic acid receptors. Nature Plants, 2019, 5, 153-159.	9.3	203
33	InterSpin: Integrated Supportive Webtools for Low- and High-Field NMR Analyses Toward Molecular Complexity. ACS Omega, 2019, 4, 3361-3369.	3.5	19
34	Molecular diet analysis of Anguilliformes leptocephalus larvae collected in the western North Pacific. PLoS ONE, 2019, 14, e0225610.	2.5	19
35	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
36	Application of ensemble deep neural network to metabolomics studies. Analytica Chimica Acta, 2018, 1037, 230-236.	5.4	44

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37	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
38	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
39	Profiling physicochemical and planktonic features from discretely/continuously sampled surface water. Science of the Total Environment, 2018, 636, 12-19.	8.0	9
40	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
41	Systemic Homeostasis in Metabolome, Ionome, and Microbiome of Wild Yellowfin Goby in Estuarine Ecosystem. Scientific Reports, 2018, 8, 3478.	3.3	23
42	Environmental metabolomics with data science for investigating ecosystem homeostasis. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 104, 56-88.	7.5	43
43	NMR Analysis of Molecular Complexity. , 2018, , 461-489.		1
44	Oral Administration of Porphyromonas gingivalis Alters the Gut Microbiome and Serum Metabolome. MSphere, 2018, 3, .	2.9	134
45	Exploratory machine-learned theoretical chemical shifts can closely predict metabolic mixture signals. Chemical Science, 2018, 9, 8213-8220.	7.4	20
46	Screening of fungi for decomposition of lignin-derived products from Japanese cedar. Journal of Bioscience and Bioengineering, 2018, 126, 573-579.	2.2	15
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	<scp>TBL</scp>10 is required for Oâ€acetylation of pectic rhamnogalacturonanâ€I in Arabidopsis thaliana. Plant Journal, 2018, 96, 772-785.	5.7	37
49	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
50	NMR window of molecular complexity showing homeostasis in superorganisms. Analyst, The, 2017, 142, 4161-4172.	3.5	20
51	Transcriptome Analysis Uncovers a Growth-Promoting Activity of Orosomucoid-1 on Hepatocytes. EBioMedicine, 2017, 24, 257-266.	6.1	24
52	Trans-omics approaches used to characterise fish nutritional biorhythms in leopard coral grouper (Plectropomus leopardus). Scientific Reports, 2017, 7, 9372.	3.3	24
53	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
54	Mobile edge computing based VM migration for QoS improvement. , 2017, , .		11

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55	[Dedicated to Prof. T. Okada and Prof. T. Nishioka: data science in chemistry]Visualizing Individual and Region-specific Microbialâ€“metabolite Relations by Important Variable Selection Using Machine Learning Approaches. Journal of Computer Aided Chemistry, 2017, 18, 31-41.	0.3	2
56	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
57	Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases. Nutrients, 2017, 9, 1329.	4.1	100
58	Bacterial Substrate Transformation Tracked by Stable-Isotope-Guided NMR Metabolomics: Application in a Natural Aquatic Microbial Community. Metabolites, 2017, 7, 52.	2.9	11
59	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
60	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
61	Protonema of the moss Funaria hygrometrica can function as a lead (Pb) adsorbent. PLoS ONE, 2017, 12, e0189726.	2.5	25
62	Cannibalism Affects Core Metabolic Processes in Helicoverpa armigera Larvaeâ€”A 2D NMR Metabolomics Study. International Journal of Molecular Sciences, 2016, 17, 1470.	4.1	10
63	Visualization of Microfloral Metabolism for Marine Waste Recycling. Metabolites, 2016, 6, 7.	2.9	13
64	FoodPro: A Web-Based Tool for Evaluating Covariance and Correlation NMR Spectra Associated with Food Processes. Metabolites, 2016, 6, 36.	2.9	9
65	Structure and Metabolicâ€Flow Analysis of Molecular Complexity in a ¹³Câ€Labeled Tree by 2D and 3D NMR. Angewandte Chemie - International Edition, 2016, 55, 6000-6003.	13.8	24
66	Artificial Autopolyploidization Modifies the Tricarboxylic Acid Cycle and GABA Shunt in Arabidopsis thaliana Col-0. Scientific Reports, 2016, 6, 26515.	3.3	24
67	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
68	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
69	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
70	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
71	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
72	Structure and Metabolicâ€Flow Analysis of Molecular Complexity in a ¹³Câ€Labeled Tree by 2D and 3D NMR. Angewandte Chemie, 2016, 128, 6104-6107.	2.0	5

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73	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
74	SENSI: signal enhancement by spectral integration for the analysis of metabolic mixtures. Chemical Communications, 2016, 52, 2964-2967.	4.1	21
75	SpinCouple: Development of a Web Tool for Analyzing Metabolite Mixtures via Two-Dimensional J-Resolved NMR Database. Analytical Chemistry, 2016, 88, 659-665.	6.5	61
76	The Effect of Molecular Conformation on the Accuracy of Theoretical ¹H and ¹³C Chemical Shifts Calculated by Ab Initio Methods for Metabolic Mixture Analysis. Journal of Physical Chemistry B, 2016, 120, 3479-3487.	2.6	11
77	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
78	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
79	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
80	Probiotic Bifidobacterium longum alters gut luminal metabolism through modification of the gut microbial community. Scientific Reports, 2015, 5, 13548.	3.3	126
81	Strengthening of the intestinal epithelial tight junction by Bifidobacterium bifidum. Physiological Reports, 2015, 3, e12327.	1.7	167
82	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
83	Pretreatment and Integrated Analysis of Spectral Data Reveal Seaweed Similarities Based on Chemical Diversity. Analytical Chemistry, 2015, 87, 2819-2826.	6.5	39
84	Introduction of chemically labile substructures into Arabidopsis lignin through the use of LigD, the CÎ±â€dehydrogenase from Sphingobium sp. strain <scp>SYK</scp>â€6. Plant Biotechnology Journal, 2015, 13, 821-832.	8.3	45
85	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
86	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
87	Profiling Planktonic Biomass Using Element-Specific, Multicomponent Nuclear Magnetic Resonance Spectroscopy. Environmental Science & Technology, 2015, 49, 7056-7062.	10.0	21
88	Methylated Cytokinins from the Phytopathogen Rhodococcus fascians Mimic Plant Hormone Activity. Plant Physiology, 2015, 169, 1118-1126.	4.8	75
89	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
90	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

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91	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
92	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
93	Multi-Spectroscopic Analysis of Seed Quality and 13C-Stable-Iotopologue Monitoring in Initial Growth Metabolism of Jatropha curcas L.. Metabolites, 2014, 4, 1018-1033.	2.9	20
94	Multiple Omics Uncovers Hostâ€“Gut Microbial Mutualism During Prebiotic Fructooligosaccharide Supplementation. DNA Research, 2014, 21, 469-480.	3.4	101
95	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
96	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
97	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
98	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
99	In vitro evaluation method for screening of candidate prebiotic foods. Food Chemistry, 2014, 152, 251-260.	8.2	34
100	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
101	Cellulose Digestion and Metabolism Induced Biocatalytic Transitions in Anaerobic Microbial Ecosystems. Metabolites, 2014, 4, 36-52.	2.9	21
102	Comparative metabolomic and ionomic approach for abundant fishes in estuarine environments of Japan. Scientific Reports, 2014, 4, 7005.	3.3	53
103	Chemical Profiling of Jatropha Tissues under Different Torrefaction Conditions: Application to Biomass Waste Recovery. PLoS ONE, 2014, 9, e106893.	2.5	23
104	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
105	Commensal microbe-derived butyrate induces the differentiation of colonic regulatory T cells. Nature, 2013, 504, 446-450.	27.8	3,901
106	Comprehensive Signal Assignment of ¹³C-Labeled Lignocellulose Using Multidimensional Solution NMR and ¹³C Chemical Shift Comparison with Solid-State NMR. Analytical Chemistry, 2013, 85, 8857-8865.	6.5	48
107	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
108	Solid-, Solution-, and Gas-state NMR Monitoring of 13C-Cellulose Degradation in an Anaerobic Microbial Ecosystem. Molecules, 2013, 18, 9021-9033.	3.8	34

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109	Characterization of lignocellulose of Erianthus arundinaceus in relation to enzymatic saccharification efficiency. Plant Biotechnology, 2013, 30, 25-35.	1.0	40
110	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
111	ECOMICS:Ecosystem Trans-OMICS Tools and Methods for Complex Environmental Samples and Datasets. Journal of Ecosystem & Ecography, 2013, 03, .	0.2	2
112	Chemical profiling of complex biochemical mixtures from various seaweeds. Polymer Journal, 2012, 44, 888-894.	2.7	39
113	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
114	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
115	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
116	Exploring the conformational space of amorphous cellulose using NMR chemical shifts. Carbohydrate Polymers, 2012, 90, 1197-1203.	10.2	61
117	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
118	Hydrophilic Double-Network Polymers that Sustain High Mechanical Modulus under 80% Humidity. ACS Macro Letters, 2012, 1, 432-436.	4.8	20
119	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
120	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
121	Spectroscopic investigation of tissue-specific biomass profiling for Jatropha curcas L.. Plant Biotechnology, 2012, 29, 163-170.	1.0	15
122	Dissection of genotypeâ€“phenotype associations in rice grains using metabolome quantitative trait loci analysis. Plant Journal, 2012, 70, 624-636.	5.7	173
123	Dynamic Omics Approach Identifies Nutrition-Mediated Microbial Interactions. Journal of Proteome Research, 2011, 10, 824-836.	3.7	45
124	Evaluation of a Semipolar Solvent System as a Step toward Heteronuclear Multidimensional NMR-Based Metabolomics for ¹³C-Labeled Bacteria, Plants, and Animals. Analytical Chemistry, 2011, 83, 719-726.	6.5	72
125	Bifidobacteria can protect from enteropathogenic infection through production of acetate. Nature, 2011, 469, 543-547.	27.8	1,836
126	The Circadian Clock Modulates Water Dynamics and Aquaporin Expression in Arabidopsis Roots. Plant and Cell Physiology, 2011, 52, 373-383.	3.1	70

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127	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
128	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
129	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
130	Statistical Indices for Simultaneous Large-Scale Metabolite Detections for a Single NMR Spectrum. Analytical Chemistry, 2010, 82, 1653-1658.	6.5	121
131	Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 725-730.	7.1	174
132	Correlation exploration of metabolic and genomic diversity in rice. BMC Genomics, 2009, 10, 568.	2.8	50
133	Evaluation and Characterization of Bacterial Metabolic Dynamics with a Novel Profiling Technique, Real-Time Metabolotyping. PLoS ONE, 2009, 4, e4893.	2.5	56
134	Metabolic movement upon abscisic acid and salicylic acid combined treatments. Plant Biotechnology, 2009, 26, 551-560.	1.0	16
135	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
136	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
137	PRIMe: a Web site that assembles tools for metabolomics and transcriptomics. In Silico Biology, 2008, 8, 339-45.	0.9	149
138	Top-down Phenomics of Arabidopsis thaliana. Journal of Biological Chemistry, 2007, 282, 18532-18541.	3.4	58
139	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
140	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
141	Towards dynamic metabolic network measurements by multi-dimensional NMR-based fluxomics. Phytochemistry, 2007, 68, 2320-2329.	2.9	64
142	Structural and Functional Characterization of a Mutant of Pseudocerastes persicus Natriuretic Peptide. Protein and Peptide Letters, 2006, 13, 295-300.	0.9	2
143	Hetero-nuclear NMR-based Metabolomics. , 2006, , 93-101.		5
144	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

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145	Stable Isotope Labeling of Arabidopsis thaliana for an NMR-Based Metabolomics Approach. Plant and Cell Physiology, 2004, 45, 1099-1104.	3.1	145
146	Present Status of 920 MHz High-Resolution NMR Spectrometers. IEEE Transactions on Applied Superconductivity, 2004, 14, 1608-1612.	1.7	18
147	4.5 K Cooling System for a Cryogenically Cooled Probe for a 920 MHz NMR. AIP Conference Proceedings, 2004, , .	0.4	4
148	Parkin binds the Rpn10 subunit of 26S proteasomes through its ubiquitinâ€like domain. EMBO Reports, 2003, 4, 301-306.	4.5	233
149	Cholesterol Doping Induced Enhanced Stability of Bicelles. Langmuir, 2003, 19, 9841-9844.	3.5	32
150	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
151	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
152	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
153	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
154	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
155	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
156	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
157	Spectroscopic investigation of tertiary fold of staphylococcal protein A to explore its engineering application. Biomaterials, 1999, 20, 647-654.	11.4	14
158	A light-harvesting antenna protein retains its folded conformation in the absence of protein-lipid and protein-pigment interactions. , 1999, 49, 361-372.		18
159	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
160	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
161	Application of 1H NMR chemical shifts to measure the quality of protein structures. Journal of Molecular Biology, 1995, 247, 541-546.	4.2	30
162	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

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163	CHAPTER 17. Polysaccharides as Major Carbon Sources in Environmental Biodiversity. New Developments in NMR, 0, , 369-395.	0.1	2
164	Practical Aspects of Uniform Stable Isotope Labeling of Higher Plants for Heteronuclear NMR-Based Metabolomics. , 0, , 273-286.		0