Yasuhiro Date

List of Publications by Year
in descending order

50 papers	2,101 citations	185998 28 h-index	243296 44 g-index
52 all docs	52 docs citations	52 times ranked	2432 citing authors

#	Article	IF	Citations
1	Relaxometric learning: a pattern recognition method for T2 relaxation curves based on machine learning supported by an analytical framework. BMC Chemistry, 2021, 15, 13.	1.6	4
2	Fish ecotyping based on machine learning and inferred network analysis of chemical and physical properties. Scientific Reports, 2021, 11, 3766.	1.6	10
3	Large-Scale Evaluation of Major Soluble Macromolecular Components of Fish Muscle from a Conventional 1H-NMR Spectral Database. Molecules, 2020, 25, 1966.	1.7	9
4	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.	3.3	77
5	Application of ensemble deep neural network to metabolomics studies. Analytica Chimica Acta, 2018, 1037, 230-236.	2.6	44
6	Application of a Deep Neural Network to Metabolomics Studies and Its Performance in Determining Important Variables. Analytical Chemistry, 2018, 90, 1805-1810.	3.2	101
7	Regional feature extraction of various fishes based on chemical and microbial variable selection using machine learning. Analytical Methods, 2018, 10, 2160-2168.	1.3	11
8	Profiling physicochemical and planktonic features from discretely/continuously sampled surface water. Science of the Total Environment, 2018, 636, 12-19.	3.9	9
9	Application of kernel principal component analysis and computational machine learning to exploration of metabolites strongly associated with diet. Scientific Reports, 2018, 8, 3426.	1.6	33
10	Systemic Homeostasis in Metabolome, Ionome, and Microbiome of Wild Yellowfin Goby in Estuarine Ecosystem. Scientific Reports, 2018, 8, 3478.	1.6	23
11	Environmental metabolomics with data science for investigating ecosystem homeostasis. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 104, 56-88.	3.9	43
12	Oral Administration of Porphyromonas gingivalis Alters the Gut Microbiome and Serum Metabolome. MSphere, 2018, 3, .	1.3	134
13	Exploratory machine-learned theoretical chemical shifts can closely predict metabolic mixture signals. Chemical Science, 2018, 9, 8213-8220.	3.7	20
14	NALT M cells are important for immune induction for the common mucosal immune system. International Immunology, 2017, 29, 471-478.	1.8	45
15	[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
16	Exploring the Impact of Food on the Gut Ecosystem Based on the Combination of Machine Learning and Network Visualization. Nutrients, 2017, 9, 1307.	1.7	15
17	Meta-Analysis of Fecal Microbiota and Metabolites in Experimental Colitic Mice during the Inflammatory and Healing Phases. Nutrients, 2017, 9, 1329.	1.7	100
18	Bacterial Substrate Transformation Tracked by Stable-Isotope-Guided NMR Metabolomics: Application in a Natural Aquatic Microbial Community. Metabolites, 2017, 7, 52.	1.3	11

#	Article	IF	Citations
19	Visualization of Microfloral Metabolism for Marine Waste Recycling. Metabolites, 2016, 6, 7.	1.3	13
20	Improvement of physical, chemical and biological properties of aridisol from Botswana by the incorporation of torrefied biomass. Scientific Reports, 2016, 6, 28011.	1.6	44
21	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.	1.6	21
22	SENSI: signal enhancement by spectral integration for the analysis of metabolic mixtures. Chemical Communications, 2016, 52, 2964-2967.	2.2	21
23	SpinCouple: Development of a Web Tool for Analyzing Metabolite Mixtures via Two-Dimensional J-Resolved NMR Database. Analytical Chemistry, 2016, 88, 659-665.	3.2	61
24	Application of Market Basket Analysis for the Visualization of Transaction Data Based on Human Lifestyle and Spectroscopic Measurements. Analytical Chemistry, 2016, 88, 2714-2719.	3.2	28
25	Strengthening of the intestinal epithelial tight junction by Bifidobacterium bifidum. Physiological Reports, 2015, 3, e12327.	0.7	167
26	Metabolic dynamics analysis by massive data integration: application to tsunami-affected field soils in Japan. ACS Chemical Biology, 2015, 10, 1908-1915.	1.6	14
27	Pretreatment and Integrated Analysis of Spectral Data Reveal Seaweed Similarities Based on Chemical Diversity. Analytical Chemistry, 2015, 87, 2819-2826.	3.2	39
28	Human Metabolic, Mineral, and Microbiota Fluctuations Across Daily Nutritional Intake Visualized by a Data-Driven Approach. Journal of Proteome Research, 2015, 14, 1526-1534.	1.8	28
29	Periodontal Disease Bacteria Specific to Tonsil in IgA Nephropathy Patients Predicts the Remission by the Treatment. PLoS ONE, 2014, 9, e81636.	1.1	35
30	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.	1.1	22
31	Integrated Analysis of Seaweed Components during Seasonal Fluctuation by Data Mining Across Heterogeneous Chemical Measurements with Network Visualization. Analytical Chemistry, 2014, 86, 1098-1105.	3.2	48
32	Comparative Analysis of Chemical and Microbial Profiles in Estuarine Sediments Sampled from Kanto and Tohoku Regions in Japan. Analytical Chemistry, 2014, 86, 5425-5432.	3.2	39
33	In vitro evaluation method for screening of candidate prebiotic foods. Food Chemistry, 2014, 152, 251-260.	4.2	34
34	Visualizing microbial dechlorination processes in underground ecosystem by statistical correlation and network analysis approach. Journal of Bioscience and Bioengineering, 2014, 117, 305-309.	1.1	7
35	Cellulose Digestion and Metabolism Induced Biocatalytic Transitions in Anaerobic Microbial Ecosystems. Metabolites, 2014, 4, 36-52.	1.3	21
36	Comparative metabolomic and ionomic approach for abundant fishes in estuarine environments of Japan. Scientific Reports, 2014, 4, 7005.	1.6	53

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37	Noninvasive analysis of metabolic changes following nutrient input into diverse fish species, as investigated by metabolic and microbial profiling approaches. PeerJ, 2014, 2, e550.	0.9	42
38	Solid-, Solution-, and Gas-state NMR Monitoring of 13C-Cellulose Degradation in an Anaerobic Microbial Ecosystem. Molecules, 2013, 18, 9021-9033.	1.7	34
39	Differences in Cellulosic Supramolecular Structure of Compositionally Similar Rice Straw Affect Biomass Metabolism by Paddy Soil Microbiota. PLoS ONE, 2013, 8, e66919.	1.1	30
40	Chemical profiling of complex biochemical mixtures from various seaweeds. Polymer Journal, 2012, 44, 888-894.	1.3	39
41	Concentration of Metabolites from Low-density Planktonic Communities for Environmental Metabolomics using Nuclear Magnetic Resonance Spectroscopy. Journal of Visualized Experiments, 2012, , e3163.	0.2	10
42	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.	1.8	36
43	The Epithelia-Specific Membrane Trafficking Factor AP-1B Controls Gut Immune Homeostasis in Mice. Gastroenterology, 2011, 141, 621-632.	0.6	51
44	New monitoring approach for metabolic dynamics in microbial ecosystems using stable-isotope-labeling technologies. Journal of Bioscience and Bioengineering, 2010, 110, 87-93.	1.1	38
45	Microbial diversity of anammox bacteria enriched from different types of seed sludge in an anaerobic continuous-feeding cultivation reactor. Journal of Bioscience and Bioengineering, 2009, 107, 281-286.	1.1	45
46	Nitrogen removal performance using anaerobic ammonium oxidation at low temperatures. FEMS Microbiology Letters, 2008, 282, 32-38.	0.7	148
47	Microbial community of anammox bacteria immobilized in polyethylene glycol gel carrier. Water Science and Technology, 2008, 58, 1121-1128.	1.2	15
48	Ammonium removal performance of anaerobic ammonium-oxidizing bacteria immobilized in polyethylene glycol gel carrier. Applied Microbiology and Biotechnology, 2007, 76, 1457-1465.	1.7	85
49	Psg18 Is Specifically Expressed in Follicle-associated Epithelium. Cell Structure and Function, 2007, 32, 115-126.	0.5	9
50	Growth characteristic of anaerobic ammonium-oxidizing bacteria in an anaerobic biological filtrated reactor. Applied Microbiology and Biotechnology, 2006, 70, 47-52.	1.7	133