

# Young-Mo Kim

## List of Publications by Year in descending order

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95  
papers

5,596  
citations

61945

43  
h-index

85498

71  
g-index

108  
all docs

108  
docs citations

108  
times ranked

8847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. <i>Cell</i> , 2019, 177, 1600-1618.e17.	13.5	701
2	Drought delays development of the sorghum root microbiome and enriches for monoderm bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4284-E4293.	3.3	391
3	Decolorization of reactive dyes by a thermostable laccase produced by <i>Ganoderma lucidum</i> in solid state culture. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1662-1672.	1.6	232
4	MPLEX: a Robust and Universal Protocol for Single-Sample Integrative Proteomic, Metabolomic, and Lipidomic Analyses. <i>MSystems</i> , 2016, 1, .	1.7	166
5	Decolourization of reactive black 5 by laccase: Optimization by response surface methodology. <i>Dyes and Pigments</i> , 2007, 75, 176-184.	2.0	145
6	Model-driven multi-omic data analysis elucidates metabolic immunomodulators of macrophage activation. <i>Molecular Systems Biology</i> , 2012, 8, 558.	3.2	142
7	Effect of metal ions on reactive dye decolorization by laccase from <i>Ganoderma lucidum</i> . <i>Journal of Hazardous Materials</i> , 2009, 168, 523-529.	6.5	138
8	Influence of early life exposure, host genetics and diet on the mouse gut microbiome and metabolome. <i>Nature Microbiology</i> , 2017, 2, 16221.	5.9	138
9	Biodegradation of diphenyl ether and transformation of selected brominated congeners by <i>Spingomonas</i> sp. PH-07. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 187-194.	1.7	125
10	Triclosan susceptibility and co-metabolism – A comparison for three aerobic pollutant-degrading bacteria. <i>Bioresource Technology</i> , 2011, 102, 2206-2212.	4.8	122
11	Enhanced transformation of triclosan by laccase in the presence of redox mediators. <i>Water Research</i> , 2010, 44, 298-308.	5.3	118
12	Diel metabolomics analysis of a hot spring chlorophototrophic microbial mat leads to new hypotheses of community member metabolisms. <i>Frontiers in Microbiology</i> , 2015, 6, 209.	1.5	104
13	Polystyrene nano- and microplastic accumulation at <i>Arabidopsis</i> and wheat root cap cells, but no evidence for uptake into roots. <i>Environmental Science: Nano</i> , 2020, 7, 1942-1953.	2.2	102
14	Purification and characterization of laccase produced by a white rot fungus <i>Pleurotus sajor-caju</i> under submerged culture condition and its potential in decolorization of azo dyes. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 939-946.	1.7	100
15	Phototrophic biofilm assembly in microbial-mat-derived unicyanobacterial consortia: model systems for the study of autotroph-heterotroph interactions. <i>Frontiers in Microbiology</i> , 2014, 5, 109.	1.5	97
16	Decreased abundance of type III secretion system-inducing signals in <i>Arabidopsis mkrp1</i> enhances resistance against <i>Pseudomonas syringae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6846-6851.	3.3	97
17	Biodegradation of 1,4-dioxane and transformation of related cyclic compounds by a newly isolated <i>Mycobacterium</i> sp. PH-06. <i>Biodegradation</i> , 2009, 20, 511-519.	1.5	96
18	Degradation of polybrominated diphenyl ethers by a sequential treatment with nanoscale zero valent iron and aerobic biodegradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 216-224.	1.6	93

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19	Degradation of triclosan by an integrated nano-bio redox process. <i>Bioresource Technology</i> , 2010, 101, 6354-6360.	4.8	89
20	Multi-platform <sup>TM</sup> Omics Analysis of Human Ebola Virus Disease Pathogenesis. <i>Cell Host and Microbe</i> , 2017, 22, 817-829.e8.	5.1	88
21	Enhanced transformation of malachite green by laccase of <i>Ganoderma lucidum</i> in the presence of natural phenolic compounds. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 341-350.	1.7	87
22	Laccase-catalysed polymeric dye synthesis from plant-derived phenols for potential application in hair dyeing: Enzymatic colourations driven by homo- or hetero-polymer synthesis. <i>Microbial Biotechnology</i> , 2010, 3, 324-335.	2.0	82
23	A Multi-Omic View of Host-Pathogen-Commensal Interplay in Salmonella-Mediated Intestinal Infection. <i>PLoS ONE</i> , 2013, 8, e67155.	1.1	81
24	Integrated Omics Analysis of Pathogenic Host Responses during Pandemic H1N1 Influenza Virus Infection: The Crucial Role of Lipid Metabolism. <i>Cell Host and Microbe</i> , 2016, 19, 254-266.	5.1	75
25	Elucidation of roles for vitamin B <sub>12</sub> in regulation of folate, ubiquinone, and methionine metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1205-E1214.	3.3	75
26	Use of grape seed and its natural polyphenol extracts as a natural organic coagulant for removal of cationic dyes. <i>Chemosphere</i> , 2009, 77, 1090-1098.	4.2	70
27	Biotransformation of 1,2,3-Tri- and 1,2,3,4,7,8-Hexachlorodibenzo- p - Dioxin by <i>Sphingomonas wittichii</i> Strain RW1. <i>Applied and Environmental Microbiology</i> , 2006, 72, 112-116.	1.4	68
28	Gut anatomical properties and microbial functional assembly promote lignocellulose deconstruction and colony subsistence of a wood-feeding beetle. <i>Nature Microbiology</i> , 2019, 4, 864-875.	5.9	68
29	Lipidomics reveals dramatic lipid compositional changes in the maturing postnatal lung. <i>Scientific Reports</i> , 2017, 7, 40555.	1.6	67
30	The state of rhizospheric science in the era of multi-omics: A practical guide to omics technologies. <i>Rhizosphere</i> , 2017, 3, 212-221.	1.4	66
31	SPE-IMS-MS: An automated platform for sub-sixty second surveillance of endogenous metabolites and xenobiotics in biofluids. <i>Clinical Mass Spectrometry</i> , 2016, 2, 1-10.	1.9	63
32	Multi-omics analysis reveals regulators of the response to nitrogen limitation in <i>Yarrowia lipolytica</i> . <i>BMC Genomics</i> , 2016, 17, 138.	1.2	62
33	The Specific Carbohydrate Diet and Diet Modification as Induction Therapy for Pediatric Crohn's Disease: A Randomized Diet Controlled Trial. <i>Nutrients</i> , 2020, 12, 3749.	1.7	62
34	Synergistic effect of laccase mediators on pentachlorophenol removal by <i>Ganoderma lucidum</i> laccase. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 783-790.	1.7	60
35	Biallelic Mutations in ATP5F1D, which Encodes a Subunit of ATP Synthase, Cause a Metabolic Disorder. <i>American Journal of Human Genetics</i> , 2018, 102, 494-504.	2.6	59
36	Temporospatial shifts in the human gut microbiome and metabolome after gastric bypass surgery. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 12.	2.9	57

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37	Metaphenomic Responses of a Native Prairie Soil Microbiome to Moisture Perturbations. <i>MSystems</i> , 2019, 4, .	1.7	56
38	Genetic and metabolic links between the murine microbiome and memory. <i>Microbiome</i> , 2020, 8, 53.	4.9	56
39	Synthetic microbial communities of heterotrophs and phototrophs facilitate sustainable growth. <i>Nature Communications</i> , 2020, 11, 3803.	5.8	55
40	Comprehensive Metabolomic, Lipidomic and Microscopic Profiling of <i>Yarrowia lipolytica</i> during Lipid Accumulation Identifies Targets for Increased Lipogenesis. <i>PLoS ONE</i> , 2015, 10, e0123188.	1.1	54
41	Silymarin Suppresses Cellular Inflammation By Inducing Reparative Stress Signaling. <i>Journal of Natural Products</i> , 2015, 78, 1990-2000.	1.5	53
42	<i>Salmonella</i> modulates metabolism during growth under conditions that induce expression of virulence genes. <i>Molecular BioSystems</i> , 2013, 9, 1522.	2.9	49
43	Biodegradation of Dibenzo-p-dioxin, Dibenzofuran, and Chlorodibenzo-p-dioxins by <i>Pseudomonas veronii</i> PH-03. <i>Biodegradation</i> , 2004, 15, 303-313.	1.5	48
44	Bioremediation of PCDD/Fs-contaminated municipal solid waste incinerator fly ash by a potent microbial biocatalyst. <i>Journal of Hazardous Materials</i> , 2008, 157, 114-121.	6.5	46
45	Biological removal of polychlorinated dibenzo-p-dioxins from incinerator fly ash by <i>Sphingomonas wittichii</i> RW1. <i>Water Research</i> , 2005, 39, 4651-4660.	5.3	43
46	MPLEx: a method for simultaneous pathogen inactivation and extraction of samples for multi-omics profiling. <i>Analyst</i> , The, 2017, 142, 442-448.	1.7	43
47	Leucine Biosynthesis Is Involved in Regulating High Lipid Accumulation in <i>Yarrowia lipolytica</i> . <i>MBio</i> , 2017, 8, .	1.8	38
48	Mass Spectrometry-Based Metabolomics. <i>Methods in Molecular Biology</i> , 2018, 1775, 107-118.	0.4	38
49	<i>Dichomitus squalens</i> partially tailors its molecular responses to the composition of solid wood. <i>Environmental Microbiology</i> , 2018, 20, 4141-4156.	1.8	36
50	Metabolomic response of human skin tissue to low dose ionizing radiation. <i>Molecular BioSystems</i> , 2012, 8, 1979.	2.9	31
51	Comparing identified and statistically significant lipids and polar metabolites in 15-year old serum and dried blood spot samples for longitudinal studies. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 447-456.	0.7	31
52	A multi-omic systems approach to elucidating <i>Yersinia</i> virulence mechanisms. <i>Molecular BioSystems</i> , 2013, 9, 44-54.	2.9	29
53	Effect of heavy metals on the biodegradation of dibenzofuran in liquid medium. <i>Journal of Hazardous Materials</i> , 2007, 140, 145-148.	6.5	28
54	A statistical analysis of the effects of urease pre-treatment on the measurement of the urinary metabolome by gas chromatography-mass spectrometry. <i>Metabolomics</i> , 2014, 10, 897-908.	1.4	28

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55	Light-Stress Influences the Composition of the Murine Gut Microbiome, Memory Function, and Plasma Metabolome. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 108.	1.6	26
56	Time-resolved proteome profiling of normal lung development. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L11-L24.	1.3	25
57	Multi-Omics Driven Metabolic Network Reconstruction and Analysis of Lignocellulosic Carbon Utilization in <i>Rhodospiridium toruloides</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 612832.	2.0	25
58	<i>Salinivirga fredricksonii</i> gen. nov., sp. nov., a heterotrophic halophile isolated from a photosynthetic mat, a member of a novel lineage ( <i>Salinarimonadaceae</i> fam. nov.) within the order Rhizobiales, and reclassification of the genus <i>Salinarimonas</i> Liu et al. 2010 into <i>Salinarimonadaceae</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 1591-1598.	0.8	25
59	Mineralization and transformation of monofluorophenols by <i>Pseudonocardia benzenivorans</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1569-1577.	1.7	24
60	The fungus gardens of leaf-cutting ants undergo a distinct physiological transition during biomass degradation. <i>Environmental Microbiology Reports</i> , 2014, 6, 389-395.	1.0	21
61	Indirect Interspecies Regulation: Transcriptional and Physiological Responses of a Cyanobacterium to Heterotrophic Partnership. <i>MSystems</i> , 2017, 2, .	1.7	20
62	The MPLEx Protocol for Multi-omic Analyses of Soil Samples. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	19
63	Soil microbial EPS resiliency is influenced by carbon source accessibility. <i>Soil Biology and Biochemistry</i> , 2020, 151, 108037.	4.2	17
64	Are the metabolomic responses to folivory of closely related plant species linked to macroevolutionary and plant-herbivore coevolutionary processes?. <i>Ecology and Evolution</i> , 2016, 6, 4372-4386.	0.8	15
65	A Cobalamin Activity-Based Probe Enables Microbial Cell Growth and Finds New Cobalamin-Protein Interactions across Domains. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	15
66	Colonies of the fungus <i>Aspergillus niger</i> are highly differentiated to adapt to local carbon source variation. <i>Environmental Microbiology</i> , 2020, 22, 1154-1166.	1.8	15
67	Metabolite, Protein, and Lipid Extraction (MPLEx): A Method that Simultaneously Inactivates Middle East Respiratory Syndrome Coronavirus and Allows Analysis of Multiple Host Cell Components Following Infection. <i>Methods in Molecular Biology</i> , 2020, 2099, 173-194.	0.4	15
68	Formation of dehydroalanine from mimosine and cysteine: artifacts in gas chromatography/mass spectrometry based metabolomics. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2561-2564.	0.7	14
69	<i>Cryptococcus neoformans</i> Infected Macrophages Release Proinflammatory Extracellular Vesicles: Insight into Their Components by Multi-omics. <i>MBio</i> , 2021, 12, .	1.8	14
70	Temporal dynamics of CO <sub>2</sub> and CH <sub>4</sub> loss potentials in response to rapid hydrological shifts in tidal freshwater wetland soils. <i>Ecological Engineering</i> , 2018, 114, 104-114.	1.6	13
71	Salmonella-Mediated Inflammation Eliminates Competitors for Fructose-Asparagine in the Gut. <i>Infection and Immunity</i> , 2018, 86, .	1.0	12
72	Integration of Proteomics and Metabolomics Into the Design, Build, Test, Learn Cycle to Improve 3-Hydroxypropionic Acid Production in <i>Aspergillus pseudoterreus</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 603832.	2.0	12

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73	A resource of lipidomics and metabolomics data from individuals with undiagnosed diseases. <i>Scientific Data</i> , 2021, 8, 114.	2.4	12
74	Blocking hexose entry into glycolysis activates alternative metabolic conversion of these sugars and upregulates pentose metabolism in <i>Aspergillus nidulans</i> . <i>BMC Genomics</i> , 2018, 19, 214.	1.2	11
75	Studying <i>Salmonellae</i> and <i>Yersiniae</i> Host-Pathogen Interactions Using Integrated Omics and Modeling. <i>Current Topics in Microbiology and Immunology</i> , 2012, 363, 21-41.	0.7	10
76	Integrated omics analysis for studying the microbial community response to a pH perturbation of a cellulose-degrading bioreactor culture. <i>FEMS Microbiology Ecology</i> , 2014, 90, 802-815.	1.3	10
77	High-Throughput Large-Scale Targeted Proteomics Assays for Quantifying Pathway Proteins in <i>Pseudomonas putida</i> KT2440. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 603488.	2.0	10
78	Integrated network modeling approach defines key metabolic responses of soil microbiomes to perturbations. <i>Scientific Reports</i> , 2020, 10, 10882.	1.6	9
79	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. <i>PLoS ONE</i> , 2020, 15, e0233823.	1.1	8
80	Atmo-ecometabolomics: a novel atmospheric particle chemical characterization methodology for ecological research. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 78.	1.3	7
81	Statistically Driven Metabolite and Lipid Profiling of Patients from the Undiagnosed Diseases Network. <i>Analytical Chemistry</i> , 2020, 92, 1796-1803.	3.2	7
82	A <i>Histoplasma capsulatum</i> Lipid Metabolic Map Identifies Antifungal Targets. <i>MBio</i> , 2021, 12, e0297221.	1.8	6
83	Mass spectrometric analysis of isotope effects in bioconversion of benzene to cyclohexanone. <i>International Journal of Mass Spectrometry</i> , 2006, 252, 256-260.	0.7	3
84	Microbial Diversity and Biogeochemical Function of the Phototrophic Microbial Mats of Epsomitic Hot Lake, WA. <i>Microscopy and Microanalysis</i> , 2012, 18, 10-11.	0.2	3
85	A Catabolic Activity of <i>Sphingomonas wittichii</i> RW1 in the Biotransformation of Carbazole. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 943-949.	1.1	3
86	Author's reply to comment on "Biological removal of polychlorinated dibenzo-p-dioxins from incinerator fly ash by <i>sphingomonas wittichii</i> RW1" by Rolf U. Halden. <i>Water Research</i> , 2006, 40, 2246-2247.	5.3	2
87	Enhanced Performance in Bulk Heterojunction Polymer Solar Cell Using Water Soluble Conjugated Polymer. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1683-1686.	0.9	2
88	Editorial: Multi-Omics Technologies for Optimizing Synthetic Biomanufacturing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 818010.	2.0	1
89	Bulk and Spatially Resolved Extracellular Metabolome of Free-Living Nitrogen Fixation. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	1
90	Silymarin suppresses cellular inflammation by inducing reparative stress signaling. <i>Planta Medica</i> , 2015, 81, .	0.7	0

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91	Deciphering the microbial and molecular responses of geographically diverse <i>Setaria</i> accessions grown in a nutrient-poor soil. PLoS ONE, 2021, 16, e0259937.	1.1	0
92	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. , 2020, 15, e0233823.		0
93	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. , 2020, 15, e0233823.		0
94	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. , 2020, 15, e0233823.		0
95	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. , 2020, 15, e0233823.		0