

Yun-Gon Kim

List of Publications by Year in descending order

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102
papers

3,646
citations

172457

29
h-index

144013

57
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103
all docs

103
docs citations

103
times ranked

4319
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. <i>Bioresource Technology</i> , 2020, 300, 122724.	9.6	462
2	HPLC-based analysis of serum N-glycans on a 96-well plate platform with dedicated database software. <i>Analytical Biochemistry</i> , 2008, 376, 1-12.	2.4	449
3	Liver Extracellular Matrix Providing Dual Functions of Two-Dimensional Substrate Coating and Three-Dimensional Injectable Hydrogel Platform for Liver Tissue Engineering. <i>Biomacromolecules</i> , 2014, 15, 206-218.	5.4	199
4	Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. <i>Nature Communications</i> , 2021, 12, 4730.	12.8	164
5	Tissue extracellular matrix hydrogels as alternatives to Matrigel for culturing gastrointestinal organoids. <i>Nature Communications</i> , 2022, 13, 1692.	12.8	101
6	Vascularized Liver Organoids Generated Using Induced Hepatic Tissue and Dynamic Liver-specific Microenvironment as a Drug Testing Platform. <i>Advanced Functional Materials</i> , 2018, 28, 1801954.	14.9	100
7	Production and characterization of medium-chain-length polyhydroxyalkanoate copolymer from Arctic psychrotrophic bacterium <i>Pseudomonas</i> sp. PAMC 28620. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 710-720.	7.5	94
8	Engineering of artificial microbial consortia of <i>Ralstonia eutropha</i> and <i>Bacillus subtilis</i> for poly(3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer production from sugarcane sugar without precursor feeding. <i>Bioresource Technology</i> , 2018, 257, 92-101.	9.6	94
9	A relative and absolute quantification of neutral N-linked oligosaccharides using modification with carboxymethyl trimethylammonium hydrazide and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Analytical Biochemistry</i> , 2008, 379, 45-59.	2.4	90
10	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. <i>Nature Biomedical Engineering</i> , 2018, 2, 522-539.	22.5	86
11	Fructose based hyper production of poly-3-hydroxybutyrate from <i>Halomonas</i> sp. YLW01 and impact of carbon sources on bacteria morphologies. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 929-936.	7.5	83
12	Biotechnological potential of microbial consortia and future perspectives. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1209-1229.	9.0	78
13	Microbial biodiesel production from oil palm biomass hydrolysate using marine <i>Rhodococcus</i> sp. YHY01. <i>Bioresource Technology</i> , 2017, 233, 99-109.	9.6	69
14	Enhanced isobutanol production from acetate by combinatorial overexpression of acetyl-CoA synthetase and anaplerotic enzymes in engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1971-1978.	3.3	58
15	Development of semi-synthetic microbial consortia of <i>Streptomyces coelicolor</i> for increased production of biodiesel (fatty acid methyl esters). <i>Fuel</i> , 2015, 159, 189-196.	6.4	49
16	Mass spectrometry-based N-linked glycomic profiling as a means for tracking pancreatic cancer metastasis. <i>Carbohydrate Research</i> , 2015, 413, 5-11.	2.3	45
17	High-Throughput Quantitative Analysis of Total N-Glycans by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 3453-3460.	6.5	44
18	Structural analysis of ß-Gal and new non-Gal carbohydrate epitopes from specific pathogen-free miniature pig kidney. <i>Proteomics</i> , 2008, 8, 2596-2610.	2.2	41

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19	Application of diethyl ethoxymethylenemalonate (DEEMM) derivatization for monitoring of lysine decarboxylase activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 115, 151-154.	1.8	41
20	Increase in furfural tolerance by combinatorial overexpression of NAD salvage pathway enzymes in engineered isobutanol-producing <i>E. coli</i> . <i>Bioresource Technology</i> , 2017, 245, 1430-1435.	9.6	40
21	Structural analysis of lipid A from <i>Escherichia coli</i> O157:H7 using thin-layer chromatography and ion-trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 514-525.	1.6	39
22	Screening of LPS-specific peptides from a phage display library using epoxy beads. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 312-317.	2.1	39
23	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) terpolymer production from volatile fatty acids using engineered <i>Ralstonia eutropha</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 138, 370-378.	7.5	37
24	Exopolysaccharide from psychrotrophic Arctic glacier soil bacterium <i>Flavobacterium</i> sp. ASB 3-3 and its potential applications. <i>RSC Advances</i> , 2015, 5, 84492-84502.	3.6	36
25	Chitin biomass powered microbial fuel cell for electricity production using halophilic <i>Bacillus circulans</i> BBL03 isolated from sea salt harvesting area. <i>Bioelectrochemistry</i> , 2019, 130, 107329.	4.6	35
26	Enhanced isobutanol production from acetate by combinatorial overexpression of acetyl-CoA synthetase and anaerobic enzymes in engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1971.	3.3	34
27	Peptidomics approach to elucidate the proteolytic regulation of bioactive peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8523-8527.	7.1	33
28	MALDI-MS-Based Quantitative Analysis for Ketone Containing Homoserine Lactones in <i>Pseudomonas aeruginosa</i> . <i>Analytical Chemistry</i> , 2015, 87, 858-863.	6.5	32
29	Production of Tyrian purple indigoid dye from tryptophan in <i>Escherichia coli</i> . <i>Nature Chemical Biology</i> , 2021, 17, 104-112.	8.0	32
30	Identification of α -Gal and non-Gal Epitopes in Pig Corneal Endothelial Cells and Keratocytes by Using Mass Spectrometry. <i>Current Eye Research</i> , 2009, 34, 877-895.	1.5	31
31	Production of itaconate by whole-cell bioconversion of citrate mediated by expression of multiple cis-aconitate decarboxylase (<i>cadA</i>) genes in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2017, 7, 39768.	3.3	30
32	Discovery of glycocholic acid and taurochenodeoxycholic acid as phenotypic biomarkers in cholangiocarcinoma. <i>Scientific Reports</i> , 2018, 8, 11088.	3.3	30
33	The identification and characterization of xenoantigenic nonhuman carbohydrate sequences in membrane proteins from porcine kidney. <i>Proteomics</i> , 2006, 6, 1133-1142.	2.2	29
34	High-Throughput Identification of Substrate Specificity for Protein Kinase by Using an Improved One-Bead-One-Compound Library Approach. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5408-5411.	13.8	29
35	Mass spectrometric quantification of neutral and sialylated N-glycans from a recombinant therapeutic glycoprotein produced in the two Chinese hamster ovary cell lines. <i>Analytical Biochemistry</i> , 2009, 386, 228-236.	2.4	29
36	Metal removal and reduction potential of an exopolysaccharide produced by Arctic psychrotrophic bacterium <i>Pseudomonas</i> sp. PAMC 28620. <i>RSC Advances</i> , 2016, 6, 96870-96881.	3.6	28

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37	Deep sequencing salivary proteins for periodontitis using proteomics. <i>Clinical Oral Investigations</i> , 2019, 23, 3571-3580.	3.0	28
38	Rapid and high-throughput analysis of N-glycans from ovarian cancer serum using a 96-well plate platform. <i>Analytical Biochemistry</i> , 2009, 391, 151-153.	2.4	27
39	Simultaneous profiling of N-glycans and proteins from human serum using a parallel-column system directly coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 850, 109-119.	2.3	26
40	Qualitative and quantitative comparison of N-glycans between pig endothelial and islet cells by high-performance liquid chromatography and mass spectrometry-based strategy. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1087-1104.	1.6	25
41	Analysis of the proteolysis of bioactive peptides using a peptidomics approach. <i>Nature Protocols</i> , 2013, 8, 1730-1742.	12.0	25
42	Biotransformation of pyridoxal 5-phosphate from pyridoxal by pyridoxal kinase (pdxY) to support cadaverine production in <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 2017, 104, 9-15.	3.2	25
43	Hydrolytic activities of hydrolase enzymes from halophilic microorganisms. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 450-461.	2.6	24
44	Chemical characterization of dissolved organic matter in moist acidic tussock tundra soil using ultra-high resolution 15T FT-ICR mass spectrometry. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 637-646.	2.6	23
45	Chemical derivatization-based LC-MS/MS method for quantitation of gut microbial short-chain fatty acids. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 297-302.	5.8	23
46	A metabolomics strategy for detecting protein-metabolite interactions to identify natural nuclear receptor ligands. <i>Molecular BioSystems</i> , 2011, 7, 1046.	2.9	21
47	MALDI-TOF MS-based total serum protein fingerprinting for liver cancer diagnosis. <i>Analyst</i> , 2019, 144, 2231-2238.	3.5	21
48	Reconstruction of Muscle Fascicle-Like Tissues by Anisotropic 3D Patterning. <i>Advanced Functional Materials</i> , 2021, 31, 2006227.	14.9	21
49	Enhanced production of glutaric acid by NADH oxidase and GabD-reinforced bioconversion from lysine. <i>Biotechnology and Bioengineering</i> , 2019, 116, 333-341.	3.3	20
50	Bioprospecting of exopolysaccharide from marine <i>Sphingobium yanoikuyae</i> BBL01: Production, characterization, and metal chelation activity. <i>Bioresource Technology</i> , 2021, 324, 124674.	9.6	19
51	A MALDI-MS-based quantitative targeted glycomics (MALDI-QTaG) for total N-glycan analysis. <i>Biotechnology Letters</i> , 2015, 37, 2019-2025.	2.2	18
52	Investigation of antioxidant and anticancer activities of unsaturated oligo-galacturonic acids produced by pectinase of <i>Streptomyces hydrogenans</i> YAM1. <i>Scientific Reports</i> , 2021, 11, 8491.	3.3	18
53	Detection of Hanganutziu-Deicher antigens in N-glycans from pig heart tissues by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Xenotransplantation</i> , 2013, 20, 407-417.	2.8	17
54	Tung Oil-Based Production of High 3-Hydroxyhexanoate-Containing Terpolymer Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate-co-3-Hydroxyhexanoate) Using Engineered <i>Ralstonia eutropha</i> . <i>Polymers</i> , 2021, 13, 1084.	4.5	15

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55	An integrative multiomics approach to characterize anti-adipogenic and anti-lipogenic effects of <i>Akkermansia muciniphila</i> in adipocytes. <i>Biotechnology Journal</i> , 2022, 17, e21100397.	3.5	15
56	Selection of Peptides for Lipopolysaccharide Binding on to Epoxy Beads and Selective Detection of Gram-negative Bacteria. <i>Biotechnology Letters</i> , 2006, 28, 79-84.	2.2	14
57	Mass spectrometric analysis of the glycosphingolipid-derived glycans from miniature pig endothelial cells and islets: identification of NeuGc epitope in pig islets. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1489-1499.	1.6	14
58	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14037-14049.	8.0	14
59	A Liquid-Based Colorimetric Assay of Lysine Decarboxylase and Its Application to Enzymatic Assay. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 2110-2115.	2.1	14
60	Novel Polyhydroxybutyrate-Degrading Activity of the <i>Microbulbifer</i> Genus as Confirmed by <i>Microbulbifer</i> sp. SOL03 from the Marine Environment. <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 27-36.	2.1	14
61	High-Throughput Screening of Glycan-Binding Proteins Using Miniature Pig Kidney N-Glycan-Immobilized Beads. <i>Chemistry and Biology</i> , 2008, 15, 215-223.	6.0	13
62	Effects of osmolytes on salt resistance of <i>Halomonas socii</i> CKY01 and identification of osmolytes-related genes by genome sequencing. <i>Journal of Biotechnology</i> , 2020, 322, 21-28.	3.8	13
63	Novel phasins from the Arctic <i>Pseudomonas</i> sp. B14-6 enhance the production of polyhydroxybutyrate and increase inhibitor tolerance. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 722-729.	7.5	13
64	Stable isotopic labeling-based quantitative targeted glycomics (iQT-aG). <i>Biotechnology Progress</i> , 2015, 31, 840-848.	2.6	12
65	Combination Therapy Using Low-Concentration Oxacillin with Palmitic Acid and Span85 to Control Clinical Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antibiotics</i> , 2020, 9, 682.	3.7	12
66	Increased resistance of a methicillin-resistant <i>Staphylococcus aureus</i> agr mutant with modified control in fatty acid metabolism. <i>AMB Express</i> , 2020, 10, 64.	3.0	12
67	Intestinal extracellular matrix hydrogels to generate intestinal organoids for translational applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 107, 155-164.	5.8	12
68	An Integrative Multiomics Approach to Characterize Prebiotic Inulin Effects on <i>Faecalibacterium prausnitzii</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 825399.	4.1	12
69	A MALDI-MS-based quantitative analytical method for endogenous estrone in human breast cancer cells. <i>Scientific Reports</i> , 2016, 6, 24489.	3.3	11
70	Multi-omics characterization of the osmotic stress resistance and protease activities of the halophilic bacterium <i>Pseudoalteromonas phenolica</i> in response to salt stress. <i>RSC Advances</i> , 2020, 10, 23792-23800.	3.6	11
71	Generation of uniform agarose microwells for cell patterning by micromolding in capillaries. <i>Macromolecular Research</i> , 2013, 21, 534-540.	2.4	9
72	Phenol-Soluble Modulin-Mediated Aggregation of Community-Associated Methicillin-Resistant <i>Staphylococcus Aureus</i> in Human Cerebrospinal Fluid. <i>Cells</i> , 2020, 9, 788.	4.1	9

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73	Development of an in vitro coculture device for the investigation of host-microbe interactions via integrative multiomics approaches. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1593-1604.	3.3	9
74	Comparative Study of the Difference in Behavior of the Accessory Gene Regulator (Agr) in USA300 and USA400 Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> (CA-MRSA). <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 1060-1068.	2.1	9
75	A MALDI-MS-based quantitative glycoprofiling method on a 96-well plate platform. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 150-156.	5.8	8
76	Multi-omics based characterization of antibiotic response in clinical isogenic isolates of methicillin-susceptible/-resistant <i>Staphylococcus aureus</i> . <i>RSC Advances</i> , 2020, 10, 27864-27873.	3.6	7
77	Thymol Reduces agr-Mediated Virulence Factor Phenol-Soluble Modulin Production in <i>Staphylococcus aureus</i> . <i>BioMed Research International</i> , 2022, 2022, 1-14.	1.9	7
78	Selective removal of anti- β -Gal antibodies from human serum by using synthetic β -Gal epitope on a core-shell type resin. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 445-452.	2.6	6
79	Chemical Structure of the Lipid A component of <i>Pseudomonas</i> sp. strain PAMC 28618 from Thawing Permafrost in Relation to Pathogenicity. <i>Scientific Reports</i> , 2017, 7, 2168.	3.3	6
80	Structural characterization of phosphoethanolamine-modified lipid A from probiotic <i>Escherichia coli</i> strain Nissle 1917. <i>RSC Advances</i> , 2019, 9, 19762-19771.	3.6	6
81	Structural characterization of β -galactosylated O-glycans from miniature pig kidney and endothelial cells. <i>Carbohydrate Research</i> , 2013, 369, 48-53.	2.3	5
82	Comparative N-Linked Glycan Analysis of Wild-Type and β 1,3-Galactosyltransferase Gene Knock-Out Pig Fibroblasts Using Mass Spectrometry Approaches. <i>Molecules and Cells</i> , 2015, 38, 65-74.	2.6	5
83	Sensitive change of iso-branched fatty acid (iso-15:0) in <i>Bacillus pumilus</i> PAMC 23174 in response to environmental changes. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 159-167.	3.4	5
84	Drug Screening: Vascularized Liver Organoids Generated Using Induced Hepatic Tissue and Dynamic Liver-Specific Microenvironment as a Drug Testing Platform (<i>Adv. Funct. Mater.</i> 37/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870266.	14.9	5
85	High-throughput characterization of lipopolysaccharide-binding proteins using mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 3323-3326.	2.3	4
86	The Xeno-glycomics database (XDB): a relational database of qualitative and quantitative pig glycome repertoire. <i>Bioinformatics</i> , 2013, 29, 2950-2952.	4.1	4
87	Highly sensitive glycosylation analysis of membrane glycoproteins avoiding polymeric contaminants. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 545-550.	2.6	4
88	LC-MS/MS based observation of <i>Clostridium difficile</i> inhibition by <i>Lactobacillus rhamnosus</i> GG. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 85, 161-169.	5.8	4
89	A new flow path design for multidimensional protein identification technology using nano-liquid chromatography electrospray ionization mass spectrometry. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 417-421.	2.7	3
90	Overproduction, crystallization and preliminary X-ray crystallographic analysis of <i>Escherichia coli</i> rNAN6-threonylcarbamoyladenine dehydratase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1517-1520.	0.8	3

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91	Quantitative targeted metabolomics for 15d-deoxy- ¹² C ₁₄ -PGJ ₂ (15d-PGJ ₂) by MALDI-MS. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 100-106.	2.6	3
92	Quantitative characterization of intact sialylated O-glycans with MALDI-MS for protein biotherapeutics. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1462-1467.	2.7	3
93	Generation of Monoclonal Antibodies for Sensitive Detection of Pro-Inflammatory Protein S100A9. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4659.	2.5	3
94	Multiomics characterization of dose- and time-dependent effects of ionizing radiation on human skin keratinocytes. <i>Korean Journal of Chemical Engineering</i> , 0, , 1.	2.7	2
95	Leucyl-tRNA Synthetase Inhibitor, D-Norvaline, in Combination with Oxacillin, Is Effective against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antibiotics</i> , 2022, 11, 683.	3.7	2
96	A solid-phase screening method for identification of glycan-binding cells. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 366-372.	2.6	1
97	Quantitative Analysis of Core-Fucosylated N-glycome according to Serum AFP Level for the Diagnosis of Hepatocellular Carcinoma. <i>KSBB Journal</i> , 2017, 32, 279-285.	0.2	1
98	Functional Analysis of Protein Targets by Metabolomic Approaches. <i>Topics in Current Chemistry</i> , 2011, 324, 137-162.	4.0	0
99	Selective derivatization of nucleotide diphosphate (NDP)-4-keto sugars for electrospray ionization-mass spectrometry (ESI-MS). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 893-894, 177-181.	2.3	0
100	Expression of soluble recombinant human matrix metalloproteinase 9 and generation of its monoclonal antibody. <i>Protein Expression and Purification</i> , 2021, 187, 105931.	1.3	0
101	Recent Advances in MALDI-MS Based Quantitative Targeted Glycan Analysis. <i>KSBB Journal</i> , 2015, 30, 230-238.	0.2	0
102	Expression, purification, and characterization of halophilic Pph_Pro1 protease isolated from <i>Pseudoalteromonas phenolica</i> . <i>FASEB Journal</i> , 2018, 32, 796.33.	0.5	0