

Makoto Yoshimoto

List of Publications by Year in descending order

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72
papers

1,866
citations

304743

22
h-index

276875

41
g-index

72
all docs

72
docs citations

72
times ranked

2506
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic reactions in confined environments. <i>Nature Nanotechnology</i> , 2016, 11, 409-420.	31.5	597
2	Competitive inhibition by hydrogen peroxide produced in glucose oxidation catalyzed by glucose oxidase. <i>Biochemical Engineering Journal</i> , 2003, 13, 69-72.	3.6	81
3	Stabilization of quaternary structure and activity of bovine liver catalase through encapsulation in liposomes. <i>Enzyme and Microbial Technology</i> , 2007, 41, 849-858.	3.2	69
4	Characterization and immobilization of liposome-bound cellulase for hydrolysis of insoluble cellulose. <i>Bioresource Technology</i> , 2007, 98, 1366-1372.	9.6	68
5	Refolding of Carbonic Anhydrase Assisted by 1-Palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine Liposomes. <i>Biotechnology Progress</i> , 1997, 13, 828-836.	2.6	58
6	Novel immobilized liposomal glucose oxidase system using the channel protein OmpF and catalase. <i>Biotechnology and Bioengineering</i> , 2005, 90, 231-238.	3.3	52
7	Oxidative Refolding of Denatured/Reduced Lysozyme Utilizing the Chaperone-like Function of Liposomes and Immobilized Liposome Chromatography. <i>Biotechnology Progress</i> , 1999, 15, 480-487.	2.6	48
8	Optimal covalent immobilization of glucose oxidase-containing liposomes for highly stable biocatalyst in bioreactor. <i>Biotechnology and Bioengineering</i> , 2003, 83, 444-453.	3.3	41
9	Mechanism for High Stability of Liposomal Glucose Oxidase to Inhibitor Hydrogen Peroxide Produced in Prolonged Glucose Oxidation. <i>Bioconjugate Chemistry</i> , 2004, 15, 1055-1061.	3.6	38
10	A kinetic study on enzymatic hydrolysis of a variety of pulps for its enhancement with continuous ultrasonic irradiation. <i>Biochemical Engineering Journal</i> , 2004, 19, 155-164.	3.6	37
11	Phosphatidylcholine Vesicle-Mediated Decomposition of Hydrogen Peroxide. <i>Langmuir</i> , 2007, 23, 9416-9422.	3.5	36
12	Model System for Heat-Induced Translocation of Cytoplasmic β -Galactosidase across Phospholipid Bilayer Membrane. <i>Biotechnology Progress</i> , 1998, 14, 218-226.	2.6	34
13	Evaluation of temperature and guanidine hydrochloride-induced protein-liposome interactions by using immobilized liposome chromatography. <i>Biochemical Engineering Journal</i> , 2006, 29, 174-181.	3.6	32
14	Liposomal Encapsulation of Yeast Alcohol Dehydrogenase with Cofactor for Stabilization of the Enzyme Structure and Activity. <i>Biotechnology Progress</i> , 2008, 24, 576-582.	2.6	31
15	Covalent conjugation of tetrameric bovine liver catalase to liposome membranes for stabilization of the enzyme tertiary and quaternary structures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 69, 281-287.	5.0	31
16	Preparation and characterization of reactive and stable glucose oxidase-containing liposomes modulated with detergent. <i>Biotechnology and Bioengineering</i> , 2003, 81, 695-704.	3.3	30
17	Immobilized carbonic anhydrase: preparation, characteristics and biotechnological applications. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 151.	3.6	27
18	Mechanosensitive Liposomes as Artificial Chaperones for Shear-Driven Acceleration of Enzyme-Catalyzed Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3671-3679.	8.0	26

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19	Conformationally Changed Cytochrome c-Mediated Fusion of Enzyme- and Substrate-Containing Liposomes. <i>Biotechnology Progress</i> , 1999, 15, 689-696.	2.6	24
20	Enhancement of apparent substrate selectivity of proteinase K encapsulated in liposomes through a cholate-induced alteration of the bilayer permeability. <i>Biotechnology and Bioengineering</i> , 2004, 85, 222-233.	3.3	23
21	Stabilization of Enzymes Through Encapsulation in Liposomes. <i>Methods in Molecular Biology</i> , 2011, 679, 9-18.	0.9	23
22	Immobilization of Carbonic Anhydrase in Glass Micropipettes and Glass Fiber Filters for Flow-Through Reactor Applications. <i>ACS Omega</i> , 2018, 3, 10391-10405.	3.5	23
23	Optimal operation of an integrated bioreaction-crystallization process for continuous production of calcium gluconate using external loop airlift columns. <i>Chemical Engineering Science</i> , 2001, 56, 6165-6170.	3.8	22
24	Glucose Oxidation Catalyzed by Liposomal Glucose Oxidase in the Presence of Catalase-Containing Liposomes. <i>Biotechnology Progress</i> , 2006, 22, 704-709.	2.6	22
25	Liposome clusters with shear stress-induced membrane permeability. <i>Chemistry and Physics of Lipids</i> , 2013, 174, 8-16.	3.2	22
26	Preparation and characterization of carbonic anhydrase-conjugated liposomes for catalytic synthesis of calcium carbonate particles. <i>Enzyme and Microbial Technology</i> , 2017, 105, 9-17.	3.2	22
27	Gas holdup, liquid circulating velocity and mass transfer properties in a mini-scale external loop airlift bubble column. <i>Chemical Engineering Science</i> , 2003, 58, 3353-3360.	3.8	20
28	Structural stability of glucose oxidase encapsulated in liposomes to inhibition by hydrogen peroxide produced during glucose oxidation. <i>Biochemical Engineering Journal</i> , 2006, 30, 158-163.	3.6	18
29	Stability and reactivity of liposome-encapsulated formate dehydrogenase and cofactor system in carbon dioxide gas-liquid flow. <i>Biotechnology Progress</i> , 2010, 26, 1047-1053.	2.6	18
30	Catalase-conjugated liposomes encapsulating glucose oxidase for controlled oxidation of glucose with decomposition of hydrogen peroxide produced. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 403-408.	5.0	18
31	Electrochemical synthesis of a nanohybrid film consisting of stacked graphene sheets and manganese oxide as oxygen evolution reaction catalyst. <i>RSC Advances</i> , 2016, 6, 23377-23382.	3.6	16
32	Rapid leakage from PEGylated liposomes triggered by bubbles. <i>Soft Matter</i> , 2019, 15, 9537-9546.	2.7	14
33	Stabilization of formate dehydrogenase from <i>Candida boidinii</i> through liposome-assisted complexation with cofactors. <i>Enzyme and Microbial Technology</i> , 2010, 46, 588-593.	3.2	13
34	Selective Oxidation of d-Amino Acids Catalyzed by Oligolamellar Liposomes Intercalated with d-Amino Acid Oxidase. <i>Langmuir</i> , 2014, 30, 6180-6186.	3.5	13
35	Liposomes as Chaperone Mimics with Controllable Affinity toward Heat-Denatured Formate Dehydrogenase from <i>Candida boidinii</i> . <i>Langmuir</i> , 2015, 31, 762-770.	3.5	12
36	Stabilization of Enzymes Through Encapsulation in Liposomes. <i>Methods in Molecular Biology</i> , 2017, 1504, 9-18.	0.9	12

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37	Membrane Permeability and Stability of Liposomes Suspended in Shear Flow. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 1557-1562.	2.4	11
38	Optimal Preparation of Immobilized Liposome-Bound Cellulase for Hydrolysis of Insoluble Cellulose in an External Loop Airlift Bioreactor. <i>Biotechnology Progress</i> , 2006, 22, 459-464.	2.6	10
39	A Biosensor Composed of Glucose Oxidase-Containing Liposomes and MnO ₂ -Based Layered Nanocomposite. <i>Electroanalysis</i> , 2010, 22, 653-659.	2.9	10
40	Oligolamellar vesicles for covalent immobilization and stabilization of d-amino acid oxidase. <i>Enzyme and Microbial Technology</i> , 2013, 52, 13-19.	3.2	10
41	A Method To Estimate the Average Shear Rate in a Bubble Column Using Liposomes. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 18498-18502.	3.7	10
42	A kinetic analysis of catalytic production of oxygen in catalase-containing liposome dispersions for controlled transfer of oxygen in a bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1388-1395.	3.2	10
43	Efficient Entrapment of Carbonic Anhydrase in Alginate Hydrogels Using Liposomes for Continuous-Flow Catalytic Reactions. <i>ACS Omega</i> , 2021, 6, 6368-6378.	3.5	10
44	Temperature-dependent permeability of liposome membrane incorporated with Mg-chlorophyll a. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 387, 65-70.	4.7	9
45	Hydrolysis of insoluble cellulose to glucose catalyzed by cellulase-containing liposomes in an aqueous solution of 1-butyl-3-methylimidazolium chloride. <i>Biotechnology Progress</i> , 2013, 29, 1190-1196.	2.6	9
46	A two-enzyme cascade reaction consisting of two reaction pathways. Studies in bulk solution for understanding the performance of a flow-through device with immobilised enzymes. <i>RSC Advances</i> , 2020, 10, 18655-18676.	3.6	9
47	Preparation and Characterization of Cellulase-Containing Liposomes and Their Immobilization Suitable for Enzymatic Hydrolysis of Cellulose. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 680-684.	0.6	9
48	Permeabilization of Phospholipid Bilayer Membranes Induced by Gas-Liquid Flow in an Airlift Bubble Column. <i>Biotechnology Progress</i> , 2007, 23, 1321-1326.	2.6	8
49	Thermal stabilization of formaldehyde dehydrogenase by encapsulation in liposomes with nicotinamide adenine dinucleotide. <i>Enzyme and Microbial Technology</i> , 2011, 49, 209-214.	3.2	8
50	Reactive bienzyme systems fabricated through immobilization of biotinylated glucose oxidase and peroxidase molecules onto neutralized avidin-conjugated liposomes. <i>Biochemical Engineering Journal</i> , 2017, 125, 81-87.	3.6	8
51	Continuous Production of Calcium Gluconate Crystals in an Integrated Bioreaction-Crystallization Process Using External Loop Airlift Bubble Columns with Immobilized Glucose Oxidase Gel Beads. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 1035-1040.	0.6	7
52	Phase transition-induced rapid permeabilization of liposome membranes composed of milk sphingomyelin. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 226-231.	1.5	6
53	Enhanced Heat Stability of β -Chymotrypsin through Single-Enzyme Confinement in Attoliter Liposomes. <i>ChemBioChem</i> , 2016, 17, 1221-1224.	2.6	6
54	Aggregation of chlorophyll a induced in self-assembled membranes composed of DMPC and DHPC. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 403-408.	5.0	6

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55	A Kinetic Model for Glucose Oxidation Catalyzed by Immobilized Glucose Oxidase-Containing Liposomes in a Mini-Scale External Loop Airlift Bubble Column. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 1012-1018.	0.6	6
56	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1157-1160.	2.2	4
57	Measurement and Correlation of Critical Gas and Liquid Velocities for Complete Circulation of Solid Particles in External Loop Airlift Bubble Columns. <i>Canadian Journal of Chemical Engineering</i> , 2003, 81, 444-450.	1.7	4
58	High Permeability of Polyunsaturated Lipid Bilayers As Applied to Attoliter Enzyme Reactors. <i>ACS Applied Bio Materials</i> , 2019, 2, 2453-2463.	4.6	4
59	Clusters of Phospholipid Vesicles as Platforms for Glucose Oxidase-Catalyzed Reaction in a Bubble-Column Bioreactor. <i>Chemical Engineering and Technology</i> , 2016, 39, 1130-1136.	1.5	3
60	Modulation of cellulase activity by charged lipid bilayers with different acyl chain properties for efficient hydrolysis of ionic liquid-pretreated cellulose. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 198-203.	5.0	3
61	Gas-liquid flow-induced permeabilization of phospholipid bilayer membranes for regulating catalytic performance of liposome-encapsulated bovine liver catalase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 360, 63-68.	4.7	2
62	Preparation of liposome-coupled NADH and evaluation of its affinity toward formate dehydrogenase based on deactivation kinetics of the enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 40-44.	5.0	2
63	Effects of Bubble Interactions on Liquid Phase Mass Transfer Coefficients in Three Types of Bubble Columns. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 655-660.	0.6	2
64	Liposome-Assisted Refolding of Microbial Transglutaminase. <i>Membrane</i> , 2007, 32, 287-293.	0.0	2
65	Characterization of Bubble Properties in Slurry Bubble Columns Using a Triple Electroresistivity Probe. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 568-577.	0.6	2
66	Characterization of Liposome Membrane Containing Chlorophyll a Molecules and Its Photosensitized Functions. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4888-4893.	0.9	1
67	Confinement of Metalloenzymes in PEGylated Liposomes to Formulate Colloidal Catalysts for Antioxidant Cascade. <i>Langmuir</i> , 2021, 37, 10624-10635.	3.5	1
68	Oxidation of Glucose in Gas-Liquid Flow Catalyzed by Glucose Oxidase-Containing Liposomes with Different Acyl Chain Properties. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 302-306.	0.6	1
69	Characterization of Stimuli-Induced Membrane Fusion of Liposomes.. <i>Kagaku Kogaku Ronbunshu</i> , 2002, 28, 481-484.	0.3	1
70	Estimation of Local Superficial Gas Velocity in Slurry Bubble Columns Using a Triple Electroresistivity Probe. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 578-584.	0.6	1
71	Evaluation of Hydrodynamic Properties of Bubble Columns Based on Membrane Permeability of Liposomes. <i>Bunseki Kagaku</i> , 2018, 67, 711-717.	0.2	0
72	Preparation and Characteristics of Enzymatic Reaction Systems Using Lipid Membranes and Fine Droplets of Liposomes. <i>Membrane</i> , 2021, 46, 78-83.	0.0	0