Shun-ichi Matsuura

List of Publications by Year
in descending order

44	809	567281 15	501196 28
papers	citations	h-index	g-index

44	44	44	1070
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-molecule PCR using water-in-oil emulsion. Journal of Biotechnology, 2003, 102, 117-124.	3.8	195
2	Real-time observation of a single DNA digestion by lambda exonuclease under a fluorescence microscope field. Nucleic Acids Research, 2001, 29, 79e-79.	14.5	64
3	Immobilization of enzyme-encapsulated nanoporous material in a microreactor and reaction analysis. Chemical Engineering Journal, 2011, 167, 744-749.	12.7	46
4	Synthesis of a Cagelike Hollow Aluminosilicate with Vermiculate Microâ€Throughâ€Holes and its Application to Shipâ€Inâ€Bottle Encapsulation of Protein. Small, 2009, 5, 67-71.	10.0	37
5	Catalase encapsulated in mesoporous silica and its performance. Biochemical Engineering Journal, 2009, 44, 167-173.	3.6	34
6	Enhancement in thermal stability and resistance to denaturants of lipase encapsulated in mesoporous silica with alkyltrimethylammonium (CTAB). Colloids and Surfaces B: Biointerfaces, 2010, 75, 478-482.	5.0	33
7	Production of l-theanine using glutaminase encapsulated in carbon-coated mesoporous silica with high pH stability. Biochemical Engineering Journal, 2012, 68, 207-214.	3.6	30
8	Kinetic characterization of esterification catalyzed by Rhizopus delemar lipase in lecithin-AOT microemulsion systems. Journal of Molecular Catalysis B: Enzymatic, 1998, 4, 25-32.	1.8	29
9	Direct visualization of hetero-enzyme co-encapsulated in mesoporous silicas. Microporous and Mesoporous Materials, 2010, 127, 61-66.	4.4	29
10	Indirect micromanipulation of single molecules in water-in-oil emulsion. Electrophoresis, 2001, 22, 289-293.	2.4	28
11	A new DNA combing method for biochemical analysis. Analytical Biochemistry, 2010, 400, 145-147.	2.4	27
12	Î±-Amylase immobilization capacities of mesoporous silicas with different morphologies and surface properties. Journal of Porous Materials, 2012, 19, 95-102.	2.6	22
13	Enzyme encapsulation using highly ordered mesoporous silica monoliths. Materials Letters, 2012, 89, 184-187.	2.6	18
14	An enzyme-encapsulated microreactor for efficient theanine synthesis. Chemical Communications, 2012, 48, 7058.	4.1	17
15	Enzyme Immobilization in Mesoporous Silica for Enhancement of Thermostability. Journal of Nanoscience and Nanotechnology, 2018, 18, 104-109.	0.9	16
16	The Ensemble of Hetero-Proteins in Inorganic Nanochannels. Bioconjugate Chemistry, 2008, 19, 10-14.	3.6	15
17	Encapsulation of fluorescent proteins in folded-sheet mesoporous materials: Effect of pore size on energy-transfer efficiency. Microporous and Mesoporous Materials, 2010, 131, 245-251.	4.4	15
18	Synthesis of l-theanine using enzyme/mesoporous silica conjugates under high pH conditions. Materials Letters, 2011, 65, 67-69.	2.6	15

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19	Amphiphilic Organicâ€“Inorganic Hybrid Zeotype Aluminosilicate like a Nanoporous Crystallized Langmuirâ€“Blodgett Film. Angewandte Chemie - International Edition, 2015, 54, 7994-7998.	13.8	14
20	One-End Immobilization of Individual DNA Molecules on a Functional Hydrophobic Glass Surface. Journal of Biomolecular Structure and Dynamics, 2002, 20, 429-436.	3.5	13
21	Synthesis of amino acid using a flow-type microreactor containing enzymeâ€“mesoporous silica microsphere composites. RSC Advances, 2014, 4, 9021-9030.	3.6	13
22	Activation of restriction enzyme by electrochemically released magnesium ion. Journal of Bioscience and Bioengineering, 2004, 98, 293-297.	2.2	10
23	On-chip encapsulation of lipase using mesoporous silica: A new route to enzyme microreactors. Materials Letters, 2009, 63, 2445-2448.	2.6	10
24	Direct Observation Method of Individual Single-Stranded DNA Molecules Using Fluorescent Replication Protein A. Journal of Fluorescence, 2011, 21, 1189-1194.	2.5	8
25	Structural Stability of Light-harvesting Protein LH2 Adsorbed on Mesoporous Silica Supports. Analytical Sciences, 2015, 31, 1069-1074.	1.6	8
26	Direct Observation of Fluorescently Labeled Single-stranded Î»DNA Molecules in a Micro-Flow Channel. Journal of Fluorescence, 2013, 23, 635-640.	2.5	6
27	Nanoporous scaffold for DNA polymerase: pore-size optimisation of mesoporous silica for DNA amplification. RSC Advances, 2014, 4, 25920-25923.	3.6	6
28	Direct Single-Molecule Observations of Local Denaturation of a DNA Double Helix under a Negative Supercoil State. Analytical Chemistry, 2015, 87, 3490-3497.	6.5	6
29	Direct single-molecule observations of DNA unwinding by SV40 large tumor antigen under a negative DNA supercoil state. Journal of Biomolecular Structure and Dynamics, 2018, 36, 32-44.	3.5	6
30	Detection of hetero-proteinsâ€“mesoporous silica assembly by BRET. Chemical Communications, 2010, 46, 2941.	4.1	5
31	Solvothermal synthesis and characterization of a layered silicate including a large quantity of Al atom and its mesoporous derivatives. Microporous and Mesoporous Materials, 2014, 191, 38-47.	4.4	5
32	Preparation of mesoporous silicas using food grade emulsifiers and its application for enzyme supports. Journal of Non-Crystalline Solids, 2012, 358, 1673-1680.	3.1	4
33	A New Direct Single-Molecule Observation Method for DNA Synthesis Reaction Using Fluorescent Replication Protein A. Sensors, 2014, 14, 5174-5182.	3.8	4
34	Real-time single-molecule observations of T7 Exonuclease activity in a microflow channel. Analytical Biochemistry, 2014, 457, 24-30.	2.4	4
35	Successful Mesoporous Silica Encapsulation of Optimally Functional EcDOS (E. coli Direct Oxygen) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	4
36	Efficient production of Î³-aminobutyric acid by glutamate decarboxylase immobilized on an amphiphilic organic-inorganic hybrid porous material. Journal of Bioscience and Bioengineering, 2021, 131, 250-255.	2.2	4

#	Article	IF	Citations
37	Fabrication of Enzyme-Loaded Cartridges Using CO2-Assisted Polymer Compression. Technologies, 2021, 9, 85.	5.1	3
38	Highly Precise and Sensitive Polymerase Chain Reaction Using Mesoporous Silica-Immobilized Enzymes. ACS Applied Materials & Interfaces, 2022, 14, 29483-29490.	8.0	3
39	Novel DNA Manipulation Based on Local Temperature Control: Transportation and Scission. , 1998, , 415-418.		2
40	Assemblies of two multimeric enzymes using mesoporous silica microspheres toward cascade reaction fields. Biochemical Engineering Journal, 2022, 182, 108416.	3.6	1
41	Stretching and cutting of a single DNA molecule. , 0, , .		0
42	Control of restriction enzyme activity by local concentration of magnesium ion. , 0, , .		0
43	Hydrophobic immobilization of Candida rugosa lipase in polypropylene porous parrier applied for lipid hydrolysis. Journal of Bioscience and Bioengineering, 2009, 108, S98.	2.2	0
44	DIRECT VISUALIZATION OF ENZYMES ENCAPSULATED IN MESOPOROUS MATERIALS. , 2008, , .		0