

Shun-ichi Matsuura

List of Publications by Year in descending order

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44
papers

809
citations

567281

15
h-index

501196

28
g-index

44
all docs

44
docs citations

44
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Assemblies of two multimeric enzymes using mesoporous silica microspheres toward cascade reaction fields. <i>Biochemical Engineering Journal</i> , 2022, 182, 108416.	3.6	1
2	Highly Precise and Sensitive Polymerase Chain Reaction Using Mesoporous Silica-Immobilized Enzymes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29483-29490.	8.0	3
3	Efficient production of $\hat{1}^3$ -aminobutyric acid by glutamate decarboxylase immobilized on an amphiphilic organic-inorganic hybrid porous material. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 250-255.	2.2	4
4	Fabrication of Enzyme-Loaded Cartridges Using CO ₂ -Assisted Polymer Compression. <i>Technologies</i> , 2021, 9, 85.	5.1	3
5	Successful Mesoporous Silica Encapsulation of Optimally Functional EcDOS (E. coli Direct Oxygen) Tj ETQq1 1 0.784314 rgBT ₄ /Overl	1.6	4
6	Direct single-molecule observations of DNA unwinding by SV40 large tumor antigen under a negative DNA supercoil state. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 32-44.	3.5	6
7	Enzyme Immobilization in Mesoporous Silica for Enhancement of Thermostability. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 104-109.	0.9	16
8	Structural Stability of Light-harvesting Protein LH2 Adsorbed on Mesoporous Silica Supports. <i>Analytical Sciences</i> , 2015, 31, 1069-1074.	1.6	8
9	Amphiphilic Organic-Inorganic Hybrid Zeotype Aluminosilicate like a Nanoporous Crystallized Langmuir-Blodgett Film. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7994-7998.	13.8	14
10	Direct Single-Molecule Observations of Local Denaturation of a DNA Double Helix under a Negative Supercoil State. <i>Analytical Chemistry</i> , 2015, 87, 3490-3497.	6.5	6
11	A New Direct Single-Molecule Observation Method for DNA Synthesis Reaction Using Fluorescent Replication Protein A. <i>Sensors</i> , 2014, 14, 5174-5182.	3.8	4
12	Solvothermal synthesis and characterization of a layered silicate including a large quantity of Al atom and its mesoporous derivatives. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 38-47.	4.4	5
13	Nanoporous scaffold for DNA polymerase: pore-size optimisation of mesoporous silica for DNA amplification. <i>RSC Advances</i> , 2014, 4, 25920-25923.	3.6	6
14	Synthesis of amino acid using a flow-type microreactor containing enzyme-mesoporous silica microsphere composites. <i>RSC Advances</i> , 2014, 4, 9021-9030.	3.6	13
15	Real-time single-molecule observations of T7 Exonuclease activity in a microflow channel. <i>Analytical Biochemistry</i> , 2014, 457, 24-30.	2.4	4
16	Direct Observation of Fluorescently Labeled Single-stranded DNA Molecules in a Micro-Flow Channel. <i>Journal of Fluorescence</i> , 2013, 23, 635-640.	2.5	6
17	An enzyme-encapsulated microreactor for efficient theanine synthesis. <i>Chemical Communications</i> , 2012, 48, 7058.	4.1	17
18	Preparation of mesoporous silicas using food grade emulsifiers and its application for enzyme supports. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1673-1680.	3.1	4

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19	Production of l-theanine using glutaminase encapsulated in carbon-coated mesoporous silica with high pH stability. <i>Biochemical Engineering Journal</i> , 2012, 68, 207-214.	3.6	30
20	Enzyme encapsulation using highly ordered mesoporous silica monoliths. <i>Materials Letters</i> , 2012, 89, 184-187.	2.6	18
21	Î±-Amylase immobilization capacities of mesoporous silicas with different morphologies and surface properties. <i>Journal of Porous Materials</i> , 2012, 19, 95-102.	2.6	22
22	Synthesis of l-theanine using enzyme/mesoporous silica conjugates under high pH conditions. <i>Materials Letters</i> , 2011, 65, 67-69.	2.6	15
23	Direct Observation Method of Individual Single-Stranded DNA Molecules Using Fluorescent Replication Protein A. <i>Journal of Fluorescence</i> , 2011, 21, 1189-1194.	2.5	8
24	Immobilization of enzyme-encapsulated nanoporous material in a microreactor and reaction analysis. <i>Chemical Engineering Journal</i> , 2011, 167, 744-749.	12.7	46
25	Direct visualization of hetero-enzyme co-encapsulated in mesoporous silicas. <i>Microporous and Mesoporous Materials</i> , 2010, 127, 61-66.	4.4	29
26	Encapsulation of fluorescent proteins in folded-sheet mesoporous materials: Effect of pore size on energy-transfer efficiency. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 245-251.	4.4	15
27	A new DNA combing method for biochemical analysis. <i>Analytical Biochemistry</i> , 2010, 400, 145-147.	2.4	27
28	Enhancement in thermal stability and resistance to denaturants of lipase encapsulated in mesoporous silica with alkyltrimethylammonium (CTAB). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 478-482.	5.0	33
29	Detection of hetero-proteinsâ€™ mesoporous silica assembly by BRET. <i>Chemical Communications</i> , 2010, 46, 2941.	4.1	5
30	On-chip encapsulation of lipase using mesoporous silica: A new route to enzyme microreactors. <i>Materials Letters</i> , 2009, 63, 2445-2448.	2.6	10
31	Hydrophobic immobilization of <i>Candida rugosa</i> lipase in polypropylene porous parrier applied for lipid hydrolysis. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S98.	2.2	0
32	Synthesis of a Cage-like Hollow Aluminosilicate with Vermiculate Microâ€™Throughâ€™Holes and its Application to Shipâ€™nâ€™Bottle Encapsulation of Protein. <i>Small</i> , 2009, 5, 67-71.	10.0	37
33	Catalase encapsulated in mesoporous silica and its performance. <i>Biochemical Engineering Journal</i> , 2009, 44, 167-173.	3.6	34
34	The Ensemble of Hetero-Proteins in Inorganic Nanochannels. <i>Bioconjugate Chemistry</i> , 2008, 19, 10-14.	3.6	15
35	DIRECT VISUALIZATION OF ENZYMES ENCAPSULATED IN MESOPOROUS MATERIALS. , 2008, , .		0
36	Activation of restriction enzyme by electrochemically released magnesium ion. <i>Journal of Bioscience and Bioengineering</i> , 2004, 98, 293-297.	2.2	10

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37	Single-molecule PCR using water-in-oil emulsion. <i>Journal of Biotechnology</i> , 2003, 102, 117-124.	3.8	195
38	One-End Immobilization of Individual DNA Molecules on a Functional Hydrophobic Glass Surface. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 20, 429-436.	3.5	13
39	Indirect micromanipulation of single molecules in water-in-oil emulsion. <i>Electrophoresis</i> , 2001, 22, 289-293.	2.4	28
40	Real-time observation of a single DNA digestion by lambda exonuclease under a fluorescence microscope field. <i>Nucleic Acids Research</i> , 2001, 29, 79e-79.	14.5	64
41	Kinetic characterization of esterification catalyzed by <i>Rhizopus delemar</i> lipase in lecithin-AOT microemulsion systems. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1998, 4, 25-32.	1.8	29
42	Novel DNA Manipulation Based on Local Temperature Control: Transportation and Scission. , 1998, , 415-418.		2
43	Stretching and cutting of a single DNA molecule. , 0, , .		0
44	Control of restriction enzyme activity by local concentration of magnesium ion. , 0, , .		0