Enzyme immobilisation using SBA-15 mesoporous mole surfaces

Journal of Molecular Catalysis B: Enzymatic

15, 81-92

DOI: 10.1016/s1381-1177(01)00011-x

Citation Report

#	Article	IF	Citations
1	Photostabilized Chlorophyllain Mesoporous Silica:Â Adsorption Properties and Photoreduction Activity of Chlorophylla. Journal of the American Chemical Society, 2002, 124, 13437-13441.	6.6	115
2	Entrapping Enzyme in a Functionalized Nanoporous Support. Journal of the American Chemical Society, 2002, 124, 11242-11243.	6.6	529
3	Mechanistic and Structural Features of Protein Adsorption onto Mesoporous Silicates. Journal of Physical Chemistry B, 2002, 106, 7340-7347.	1.2	256
4	The use of crude lipase in deprotection of C-terminal protecting groups. Journal of Molecular Catalysis B: Enzymatic, 2002, 18, 243-249.	1.8	12
5	Transesterification Catalyzed by Trypsin Supported on MCM-41. Catalysis Letters, 2003, 88, 183-186.	1.4	21
6	Adsorption and Activity of Proteins onto Mesoporous Silica. Catalysis Letters, 2003, 85, 19-23.	1.4	87
7	Supramolecular assemblies for extracting organic compounds. TrAC - Trends in Analytical Chemistry, 2003, 22, 470-485.	5.8	105
8	The structureâ€“activity relationships of methane mono-oxygenase mimics in alkane activation. Catalysis Today, 2003, 81, 263-286.	2.2	10
9	Mesoporous alginate/silica biocomposites for enzyme immobilisation. Comptes Rendus Chimie, 2003, 6, 147-152.	0.2	44
10	Functionalization of SBA-15 with APTES and Characterization of Functionalized Materials. Journal of Physical Chemistry B, 2003, 107, 12650-12657.	1.2	674
11	Adsorption of lysozyme and trypsin onto mesoporous silica materials. Studies in Surface Science and Catalysis, 2003, , 775-778.	1.5	13
12	Immobilisation of single molecule magnets in mesoporous silica hosts. New Journal of Chemistry, 2003, 27, 1533-1539.	1.4	37
13	Intercalation of biomolecules in the MnPS3 layered phase. Journal of Materials Chemistry, 2003, 13, 705-707.	6.7	29
14	A novel preparation route for palladium-carbon composite materials pore filling of SBA-15 mesoporous molecular sieve. Studies in Surface Science and Catalysis, 2003, , 57-60.	1.5	0
15	Reactivity of silica walls of mesoporous materials towards benzoyl chloride. Studies in Surface Science and Catalysis, 2003, , 497-500.	1.5	6
16	Biological applications of organically functionalised mesoporous molecular sieves and related materials. Studies in Surface Science and Catalysis, 2003, 146, 581-584.	1.5	3
17	Differences between isolated silanols in all-silica ITQ-2 and MCM-41. Studies in Surface Science and Catalysis, 2004, 154, 1532-1538.	1.5	2
18	Direct hydrothermal synthesis of novel functional mesoporous materials. Science Bulletin, 2004, 49, 1332.	1.7	4

#	Article	IF	Citations
19	Functionalization of large-pore mesoporous silicas with organosilanes by direct synthesis. Microporous and Mesoporous Materials, 2004, 72, 33-42.	2.2	187
20	Immobilization of enzymes in mesoporous materials: controlling the entrance to nanospace. Microporous and Mesoporous Materials, 2004, 73, 121-128.	2.2	218
21	Functionalized nanoporous silicas for the immobilization of penicillin acylase. Applied Surface Science, 2004, 237, 398-404.	3.1	108
22	Design of large-pore mesoporous materials for immobilization of penicillin G acylase biocatalyst. Catalysis Today, 2004, 93-95, 293-299.	2.2	158
23	Effects of Surface Functionalization and Organo-Tailoring of Synthetic Layer Silicates on the Immobilization of Cytochrome c. Chemistry of Materials, 2004, 16, 2559-2566.	3.2	23
24	Free-Standing Nanogold Membranes as Scaffolds for Enzyme Immobilization. Langmuir, 2004, 20, 3717-3723.	1.6	38
25	Adsorption of Lysozyme over Mesoporous Molecular Sieves MCM-41 and SBA-15:Â Influence of pH and Aluminum Incorporation. Journal of Physical Chemistry B, 2004, 108, 7323-7330.	1.2	330
26	Nanoscale Organization of Chlorophyllain Mesoporous Silica:Â Efficient Energy Transfer and Stabilized Charge Separation as in Natural Photosynthesis. Journal of Physical Chemistry B, 2004, 108, 13683-13687.	1.2	50
27	Adsorption of cytochrome c on MCM-41 and SBA-15: Influence of pH. Studies in Surface Science and Catalysis, 2004, 154, 2987-2994.	1.5	20
28	Preparation of ordered large pore SBA-15 silica functionalized with aminopropyl groups through one-pot synthesis. Chemical Communications, 2004, , 2762.	2.2	90
29	Enzyme encapsulation in nanoporous silica spheresElectronic supplementary information (ESI) available: experimental details, and details of particle characterization. See http://www.rsc.org/suppdata/cc/b4/b403871a/. Chemical Communications, 2004, , 1528.	2.2	184
30	A versatile pathway for the direct assembly of organo-functional mesostructures from sodium silicate. Chemical Communications, 2004, , 572.	2.2	19
31	BIOADSORPTION AND SEPARATION WITH NANOPOROUS MATERIALS. Series on Chemical Engineering, 2004, , 812-848.	0.2	2
32	Structure and morphology of propylthiol-functionalised mesoporous silicas templated by non-ionic triblock copolymers. Microporous and Mesoporous Materials, 2005, 79, 241-252.	2.2	56
33	Ordered mesoporous materials in catalysis. Microporous and Mesoporous Materials, 2005, 77, 1-45.	2.2	1,976
34	Direct synthesis of highly ordered large-pore functionalized mesoporous SBA-15 silica with methylaminopropyl groups and its catalytic reactivity in flavanone synthesis. Microporous and Mesoporous Materials, 2005, 85, 241-251.	2.2	58
35	Protein adsorption on the mesoporous molecular sieve silicate SBA-15: effects of pH and pore size. Journal of Chromatography A, 2005, 1069, 119-126.	1.8	158
36	3-Aminopropyltriethoxysilyl functionalized Na-Al-MCM-41 solid base catalyst for selective preparation of 2-phenylpropionitrile from phenylacetonitrile. Applied Catalysis A: General, 2005, 292, 344-353.	2.2	9

#	Article	IF	Citations
37	Direct Synthesis and Catalytic Applications of Ordered Large Pore Aminopropyl-Functionalized SBA-15 Mesoporous Materials. Journal of Physical Chemistry B, 2005, 109, 1763-1769.	1.2	524
38	Ordered Mesoporous Materials for Bioadsorption and Biocatalysis. Chemistry of Materials, 2005, 17, 4577-4593.	3.2	1,082
39	Catalytic applications of aminopropylated mesoporous silica prepared by a template-free route in flavanones synthesis. Journal of Catalysis, 2005, 233, 266-275.	3.1	101
40	The adsorption characteristics, activity and stability of trypsin onto mesoporous silicates. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 231-239.	1.8	90
41	Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties. Journal of Molecular Catalysis B: Enzymatic, 2005, 33, 43-50.	1.8	124
42	Mesoporous Silica Nanoreactors for Highly Efficient Proteolysis. Chemistry - A European Journal, 2005, 11, 5391-5396.	1.7	81
43	Immobilization of hemoglobin on stable mesoporous multilamellar silica vesicles and their activity and stability. Journal of Materials Research, 2005, 20, 2682-2690.	1.2	18
44	On-line fluorescent monitoring of the degradation of polymeric scaffolds for tissue engineering. Analyst, The, 2005, 130, 1502.	1.7	20
45	Enhancing Stability and Oxidation Activity of Cytochrome c by Immobilization in the Nanochannels of Mesoporous Aluminosilicates. Journal of Physical Chemistry B, 2005, 109, 12277-12286.	1.2	101
46	Direct One-Step Immobilization of Glucose Oxidase in Well-Ordered Mesostructured Silica Using a Nonionic Fluorinated Surfactant. Chemistry of Materials, 2005, 17, 1479-1486.	3.2	80
47	Enzymes supported on ordered mesoporous solids: a special case of an inorganicâ€“organic hybrid. Journal of Materials Chemistry, 2005, 15, 3690.	6.7	381
48	In Situ Infrared Study of SBA-15 Functionalized with Carboxylic Groups Incorporated by a Co-condensation Route. Journal of Physical Chemistry B, 2005, 109, 16725-16729.	1.2	85
49	Physical and Chemical Adsorption ofMucorjavanicusLipase on SBA-15 Mesoporous Silica. Synthesis, Structural Characterization, and Activity Performance. Langmuir, 2005, 21, 5511-5516.	1.6	143
50	Hierarchical bimodal porous silicas and organosilicas for enzyme immobilization. Journal of Materials Chemistry, 2005, 15, 3859.	6.7	66
51	Formation of a mesoporous bioreactor based on SBA-15 and porcine pancreatic lipase by chemical modification following the uptake of enzymes. Journal of Materials Chemistry, 2006, 16, 4307.	6.7	45
52	Immobilization of lipase on silicas. Relevance of textural and interfacial properties on activity and selectivity. New Journal of Chemistry, 2006, 30, 562.	1.4	85
53	Characterization of functionalized nanoporous supports for protein confinement. Nanotechnology, 2006, 17, 5531-5538.	1.3	109
54	Recent progress in the synthesis and selected applications of MCM-41: a short review. Journal of Experimental Nanoscience, 2006, 1, 375-395.	1.3	74

#	Article	IF	Citations
55	The application of modified mesoporous silicas in liquid phase catalysis. Dalton Transactions, 2006, , 4297.	1.6	100
56	Adsorption of Myoglobin onto Porous Zirconium Phosphate and Zirconium Benzenephosphonate Obtained with Template Synthesis. Langmuir, 2006, 22, 5064-5069.	1.6	34
57	Immobilizing catalysts on porous materials. Materials Today, 2006, 9, 32-39.	8.3	269
58	New approach to the immobilization of glucose oxidase on non-porous silica microspheres functionalized by (3-aminopropyl)trimethoxysilane (APTMS). Colloids and Surfaces B: Biointerfaces, 2006, 53, 225-232.	2.5	40
59	Direct electron transfer and electrocatalysis of hemoglobin adsorbed onto electrodeposited mesoporous tungsten oxide. Electrochemistry Communications, 2006, 8, 77-82.	2.3	129
60	Preparation of methylene blue-doped silica nanoparticle and its application to electroanalysis heme proteins. Electrochimica Acta, 2006, 51, 6527-6532.	2.6	34
61	Synthesis of amino-functionalized mesoporous silicaâ€“zirconia mixed oxide using sodium silicate and zirconium carbonate complex. Microporous and Mesoporous Materials, 2006, 91, 221-224.	2.2	15
62	Controlled release of Captopril by regulating the pore size and morphology of ordered mesoporous silica. Microporous and Mesoporous Materials, 2006, 92, 1-9.	2.2	258
63	Inhibiting the leaching of lipase from mesoporous supports by polymerization of grafted vinyl groups. Microporous and Mesoporous Materials, 2006, 94, 29-33.	2.2	20
64	Synthesis, characterization and catalytic activity of ordered SBA-15 materials containing high loading of diamine functional groups. Microporous and Mesoporous Materials, 2006, 95, 57-65.	2.2	69
65	Hybrid materials for immobilization of MP-11 catalyst. Topics in Catalysis, 2006, 38, 269-278.	1.3	108
66	Trypsin immobilization on mesoporous silica with or without thiol functionalization. Journal of Porous Materials, 2006, 13, 385-391.	1.3	32
67	Effect of synthesis conditions on the mesoscopical order of mesoporous silica SBA-15 functionalized by amino groups. Journal of Sol-Gel Science and Technology, 2006, 39, 103-109.	1.1	42
68	Effect of surface hydrophobicity/hydrophilicity of mesoporous supports on the activity of immobilized lipase. Journal of Colloid and Interface Science, 2006, 298, 780-786.	5.0	54
69	Influence of superficial organic modification of MCM-41 matrices on drug delivery rate. Solid State Sciences, 2006, 8, 1243-1249.	1.5	130
70	Resolution of N-(2-ethyl-6-methylphenyl)alanine via free and immobilized lipase from Pseudomonas cepacia. Journal of Molecular Catalysis B: Enzymatic, 2006, 38, 119-125.	1.8	28
71	Phytol-modified heme in mesoporous silica: Conjugates as models of hemoproteins. Biotechnology and Bioengineering, 2006, 93, 476-484.	1.7	9
72	Silica-Based Mesoporous Organicâ€“Inorganic Hybrid Materials. Angewandte Chemie - International Edition, 2006, 45, 3216-3251.	7.2	2,787

#	Article	IF	Citations
74	Hyperstructured Hydroxyapatite Ceramics as a Carrier for Cell and Protein. Key Engineering Materials, 2006, 309-311, 939-942.	0.4	3
75	Synthesis and Characterization of Mesostructured Silicas and Gold Frameworks as Active Matrices for Biomolecule Encapsulation. Advances in Science and Technology, 2006, 51, 30.	0.2	0
76	Maghemite Nanocrystal Impregnation by Hydrophobic Surface Modification of Mesoporous Silica. Langmuir, 2007, 23, 8838-8844.	1.6	36
77	Adsorption of Pyruvic and Succinic Acid by Amine-Functionalized SBA-15 for the Purification of Succinic Acid from Fermentation Broth. Journal of Physical Chemistry C, 2007, 111, 13076-13086.	1.5	54
78	Immobilization of Trametes versicolor Laccase on Magnetically Separable Mesoporous Silica Spheres. Chemistry of Materials, 2007, 19, 6408-6413.	3.2	162
79	A triple-layer design for polyethyleneimine-coated, nanostructured magnetic particles and their use in DNA binding and transfection. Nanotechnology, 2007, 18, 435601.	1.3	36
80	Periodic Mesoporous Organosilicas with 1,4-Diethylenebenzene in the Mesoporous Wall:â€‰ Synthesis, Characterization, and Bioadsorption Properties. Journal of Physical Chemistry C, 2007, 111, 10948-10954.	1.5	65
81	Synergetic Effects of Nanoporous Support and Urea on Enzyme Activity. Nano Letters, 2007, 7, 1050-1053.	4.5	49
82	Facile heterogenization of homogeneous ferrocene catalyst on SBA-15 and its hydroxylation activity. Catalysis Communications, 2007, 8, 731-735.	1.6	44
83	Wet-Chemical Analysis of Surface Concentration of Accessible Groups on Different Amino-Functionalized Mesoporous SBA-15 Silicas. Chemistry of Materials, 2007, 19, 5023-5034.	3.2	174
84	Effect of surface functional groups on adsorption and release of bovine serum albumin on SBA-15. Studies in Surface Science and Catalysis, 2007, 165, 471-474.	1.5	3
86	Functionalization of Cubic Ia3d Mesoporous Silica for Immobilization of Penicillin G Acylase. Advanced Functional Materials, 2007, 17, 2160-2166.	7.8	57
87	Immobilization and electrochemistry of cytochrome c on amino-functionalized mesoporous silica thin films. Electrochemistry Communications, 2007, 9, 2098-2104.	2.3	48
88	Covalent immobilization of trypsin on to siliceous mesostructured cellular foams to obtain effective biocatalysts. Catalysis Today, 2007, 124, 2-10.	2.2	51
89	ENFET glucose biosensor produced with mesoporous silica microspheres. Materials Science and Engineering C, 2007, 27, 736-740.	3.8	24
90	Application and properties of siliceous mesostructured cellular foams as enzymes carriers to obtain efficient biocatalysts. Microporous and Mesoporous Materials, 2007, 99, 167-175.	2.2	71
91	Immobilization of Ru(II) complex on functionalized SBA-15 and its catalytic performance in aqueous homoallylic alcohol isomerization. Journal of Molecular Catalysis A, 2007, 267, 165-172.	4.8	26
92	Synthesis, characterization and material evaluation of mesoporous silicas templated by a polyglycols triblock copolymer for catalytic applications. Materials Chemistry and Physics, 2007, 103, 375-384.	2.0	6

#	Article	IF	Citations
93	Engineering productive enzyme confinement. Trends in Biotechnology, 2007, 25, 189-190.	4.9	26
94	Resolution of 2-octanol by SBA-15 immobilized Pseudomonas sp. lipase. Journal of Molecular Catalysis B: Enzymatic, 2007, 48, 64-69.	1.8	35
95	Designed synthesis of mesoporous solids via nonionic-surfactant-templating approach. Chemical Communications, 2007, , 897-926.	2.2	297
96	Chapter 2. Families of Microporous Framework Solids. RSC Materials Monographs, 0, , 8-78.	0.2	0
97	Preparation of amino-functionalized mesostructured cellular foams and application as hosts for large biomolecules. Journal of Materials Science: Materials in Medicine, 2007, 18, 877-882.	1.7	5
98	Epoxy-functionalized mesostructured cellular foams as effective support for covalent immobilization of penicillin G acylase. Applied Surface Science, 2008, 255, 1625-1630.	3.1	40
99	Proteins in Mesoporous Silicates. Angewandte Chemie - International Edition, 2008, 47, 8582-8594.	7.2	622
100	Adsorption heterogeneity of lysozyme over functionalized mesoporous silica: Effect of interfacial noncovalent interactions. AICHE Journal, 2008, 54, 2495-2506.	1.8	17
102	Synthesis of functionalized SBA-15 with ordered large pore size and its adsorption properties of BSA. Microporous and Mesoporous Materials, 2008, 110, 560-569.	2.2	182
103	One-pot synthesis of ordered and stable cubic mesoporous silica SBA-1 functionalized with amino functional groups. Microporous and Mesoporous Materials, 2008, 113, 212-223.	2.2	32
104	Structural features of Penicillin acylase adsorption on APTES functionalized SBA-15. Microporous and Mesoporous Materials, 2008, 116, 157-165.	2.2	88
105	Dendritic SBA-15 supported Wilkinson's catalyst for hydroformylation of styrene. Catalysis Today, 2008, 131, 61-69.	2.2	34
106	Pore-expansion of organically functionalized monodispersed mesoporous silica spheres and pore-size effects on adsorption and catalytic properties. Microporous and Mesoporous Materials, 2008, 116, 284-291.	2.2	20
107	Invertase-Lipid Biocomposite Films: Preparation, Characterization, and Enzymatic Activity. Biotechnology Progress, 2008, 20, 156-161.	1.3	18
108	The direct electrochemistry behavior of Cyt c on the modified glassy carbon electrode by SBA-15 with a high-redox potential. Journal of Molecular Catalysis B: Enzymatic, 2008, 55, 93-98.	1.8	30
109	Primary Amine Confinement at the Interface of Grafted Calixarenes and Silica. Chemistry of Materials, 2008, 20, 6316-6318.	3.2	10
110	Enzyme specific activity in functionalized nanoporous supports. Nanotechnology, 2008, 19, 125102.	1.3	59
111	Fluorescent mesoporous hybrid materials based on GFP adsorbed into SBA-15. Studies in Surface Science and Catalysis, 2008, , 763-768.	1.5	4

#	Article	IF	Citations
112	Large antibiotic molecule diffusion in confined mesoporous silica with controlled morphology. Journal of Materials Chemistry, 2008, 18, 5888.	6.7	52
113	Silver Nanoparticles Confined in SBA-15 Mesoporous Silica and the Application as a Sensor for Detecting Hydrogen Peroxide. Journal of Nanomaterials, 2008, 2008, 1-10.	1.5	20
114	Hierarchical mesoporous silica materials for separation of functional food ingredients â€" A review. Innovative Food Science and Emerging Technologies, 2008, 9, 243-248.	2.7	76
115	Novel insights into mesoporous ordered delivery systems for biotechnological applications. Studies in Surface Science and Catalysis, 2008, 174, 13-20.	1.5	5
116	Click Chemistry for High-Density Biofunctionalization of Mesoporous Silica. Journal of the American Chemical Society, 2008, 130, 12558-12559.	6.6	168
117	Spray-dried mesoporous silica microspheres with adjustable textures and pore surfaces homogenously covered by accessible thiol functions. Journal of Materials Chemistry, 2008, 18, 1368.	6.7	45
118	Active Biocatalysts Based on Pepsin Immobilized in Mesoporous SBA-15. Journal of Physical Chemistry C, 2008, 112, 18110-18116.	1.5	54
119	Recent advances in ceramic implants as drug delivery systems for biomedical applications. International Journal of Nanomedicine, 2008, 3, 403.	3.3	89
120	Immobilization of alkaline serine endopeptidase from Bacillus licheniformis on SBA-15 and MCF by surface covalent binding. Journal of Molecular Catalysis B: Enzymatic, 2009, 56, 34-40.	1.8	42
121	Architecture and performance of mesoporous silicaâ€lipase hybrids via nonâ€covalent interfacial adsorption. AICHE Journal, 2010, 56, 506-514.	1.8	7
122	The Preparation and Enzyme Immobilization of Hydrophobic Polysiloxane Supports. Macromolecular Bioscience, 2009, 9, 361-368.	2.1	19
123	Biocatalytic esterification of citronellol with lauric acid by immobilized lipase on aminopropyl-grafted mesoporous SBA-15. Biochemical Engineering Journal, 2009, 44, 263-270.	1.8	65
124	Effect of pore diffusional resistance on biocatalytic activity of Burkholderia cepacia lipase immobilized on SBA-15 hosts. Chemical Engineering Science, 2009, 64, 1474-1479.	1.9	37
125	Zinc Carboxylate Functionalized Mesoporous SBA-15 Catalyst for Selective Synthesis of Methyl-4,4â€²-di(phenylcarbamate). Catalysis Letters, 2009, 128, 405-412.	1.4	21
126	Applications of Amine-functionalized Mesoporous Silica in Fine Chemical Synthesis. Topics in Catalysis, 2009, 52, 681-687.	1.3	48
127	Immobilization of Invertase on Mesoporous Silicas to Obtain Hyper Active Biocatalysts. Topics in Catalysis, 2009, 52, 1030-1036.	1.3	43
128	Incorporation of tin in different types of pores in SBA-15: Synthesis, characterization and catalytic activity. Microporous and Mesoporous Materials, 2009, 126, 234-244.	2.2	50
129	Cyanide- and carboxylate-functionalized cubic mesoporous silicas SBA-1: Synthesis, characterization and reactivity of organic functional groups. Microporous and Mesoporous Materials, 2009, 123, 78-90.	2.2	15

#	Article	IF	Citations
130	Mesoporous materials for encapsulating enzymes. Nano Today, 2009, 4, 165-179.	6.2	418
131	Tuning interfacial non-covalent interactions through biomimetic functionalization of inorganic surface: The case of lysozyme and mesocellular silica foam hybrids. Chemical Engineering Journal, 2009, 146, 503-514.	6.6	13
132	Co-Condensation Synthesis of Aminopropyl-Functionalized KIT-5 Mesophases Using Carboxy-Terminated Triblock Copolymer. Journal of Physical Chemistry C, 2009, 113, 2777-2783.	1.5	12
133	Probing mechanisms for enzymatic activity enhancement of organophosphorus hydrolase in functionalized mesoporous silica. Biochemical and Biophysical Research Communications, 2009, 390, 1177-1181.	1.0	31
134	â€œClickableâ€•SBA-15 mesoporous materials: synthesis, characterization and their reaction with alkynes. Journal of Materials Chemistry, 2009, 19, 1409.	6.7	91
135	Nanoporous Materialsâ€”Catalysts for Green Chemistry. , 2009, , 725-748.		1
137	Study of Carbon Dioxide Adsorption on Mesoporous Aminopropylsilane-Functionalized Silica and Titania Combining Microcalorimetry and in Situ Infrared Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 21726-21734.	1.5	220
138	Immobilization of HRP in Mesoporous Silica and Its Application for the Construction of Polyaniline Modified Hydrogen Peroxide Biosensor. Sensors, 2009, 9, 4635-4648.	2.1	44
140	Rapid temperature-assisted sonochemical synthesis of mesoporous silica SBA-15. Microporous and Mesoporous Materials, 2010, 131, 385-392.	2.2	29
141	On the Compatibility Criteria for Protein Encapsulation inside Mesoporous Materials. ChemPhysChem, 2010, 11, 1757-1762.	1.0	12
142	Designed Multifunctional Nanocomposites for Biomedical Applications. Advanced Functional Materials, 2010, 20, 1599-1609.	7.8	70
143	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles. Advanced Functional Materials, 2010, 20, 1767-1777.	7.8	133
144	Covalent Anchoring of Chloroperoxidase and Glucose Oxidase on the Mesoporous Molecular Sieve SBA-15. International Journal of Molecular Sciences, 2010, 11, 762-778.	1.8	48
146	Morphology-selective synthesis of mesoporous SBA-15 particles over micrometer, submicrometer and nanometer scales. Journal of Materials Chemistry, 2010, 20, 8483.	6.7	124
147	Carboxylic groups in mesoporous silica and ethane-bridged organosilica: effect of the surface on the reactivity. Physical Chemistry Chemical Physics, 2011, 13, 1201-1209.	1.3	10
148	Elevating enzyme activity through the immobilization of horseradish peroxidase onto periodic mesoporous organosilicas. New Journal of Chemistry, 2011, 35, 1867.	1.4	27
149	Periodic organosilica hollow nanospheres as anode materials for lithium ion rechargeable batteries. Nanoscale, 2011, 3, 4768.	2.8	45
150	Bifunctionalized SBA-15 as a novel micropipette tip sorbent for selective removal and enrichment of biomolecules. Analyst, The, 2011, 136, 4710.	1.7	4

#	Article	IF	Citations
151	The activity of invertase immobilized on cashew nut shell liquid-templated large pore silica hybrids. Catalysis Science and Technology, 2011, 1, 1423.	2.1	7
152	Effect of chemical composition of SBA-15 on the adsorption and catalytic activity of Î±-chymotrypsin. Journal of Materials Chemistry, 2011, 21, 15619.	6.7	19
153	Porcine pancreatic Lipase Immobilized in Amino-Functionalized Short Rod-Shaped Mesoporous Silica Prepared Using Poly(ethylene glycol) and Triblock Copolymer as Templates. Journal of Physical Chemistry C, 2011, 115, 22191-22199.	1.5	31
154	Biosensors Based on Nanoporous Materials. Biological and Medical Physics Series, 2011, , 171-205.	0.3	6
155	Application of Magnetic Nanoparticles to Gene Delivery. International Journal of Molecular Sciences, 2011, 12, 3705-3722.	1.8	128
156	Synthesis, Characterization, and Application in the CO Oxidation over a Copper Nanocatalyst Confined in SBA-15. Journal of Chemical & Engineering Data, 2011, 56, 1167-1173.	1.0	12
157	Tailoring the surface chemistry of mesocellular foams for protein adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 386, 25-35.	2.3	27
158	Functionalized ionic liquid modified mesoporous silica SBA-15: A novel, designable and efficient carrier for porcine pancreas lipase. Colloids and Surfaces B: Biointerfaces, 2011, 88, 93-99.	2.5	45
159	Osteogenic evaluation of calcium/magnesium-doped mesoporous silica scaffold with incorporation of rhBMP-2 by synchrotron radiation-based Î¼CT. Biomaterials, 2011, 32, 8506-8517.	5.7	97
160	Energetics of protein adsorption on amine-functionalized mesostructured cellular foam silica. Journal of Chromatography A, 2011, 1218, 7796-7803.	1.8	31
161	Highly active and green aminopropyl-immobilized phosphotungstic acid on mesocellular silica foam for the O-heterocyclization of cycloocta-1,5-diene with aqueous H2O2. Green Chemistry, 2011, 13, 702.	4.6	31
162	Oxidation of Carbon Monoxide Over SBA-15-Confined Copper, Palladium and Iridium Nanocatalysts. Catalysis Letters, 2011, 141, 1659-1669.	1.4	10
163	Comparison of removal ability of indoor formaldehyde over different materials functionalized with various amine groups. Journal of Industrial and Engineering Chemistry, 2011, 17, 1-5.	2.9	69
164	Synthesis and characterization of sulfonic acid-functionalized SBA-15 for adsorption of biomolecules. Microporous and Mesoporous Materials, 2011, 142, 614-620.	2.2	39
165	Specifically and Reversibly Immobilizing Proteins/Enzymes to NitriolotriaceticâEAcidâEModified Mesoporous Silicas through Histidine Tags for Purification or Catalysis. Chemistry - A European Journal, 2011, 17, 13059-13067.	1.7	29
166	Mesoporous zeolites as enzyme carriers: Synthesis, characterization, and application in biocatalysis. Catalysis Today, 2011, 168, 28-37.	2.2	84
167	Preparation and Characterization of Immobilization of Lipase in Amino-Functionalized Mesoporous Silica. Advanced Materials Research, 0, 486, 187-192.	0.3	0
168	Anchored Pd-complexes in mesoporous supports: Synthesis, characterization and catalysis studies for carbonylation reactions. Catalysis Today, 2012, 198, 154-173.	2.2	14

#	Article	IF	Citations
169	Multi-amine-functionalized cubic Fd3Ì„m mesoporous silica by an anionic surfactant templating route. RSC Advances, 2012, 2, 956-962.	1.7	6
170	Effect of different modifications of BEA-zeolites on operational characteristics of conductometric biosensor. Materials Science and Engineering C, 2012, 32, 1648-1653.	3.8	7
171	Preparation of mesoporous silicas using food grade emulsifiers and its application for enzyme supports. Journal of Non-Crystalline Solids, 2012, 358, 1673-1680.	1.5	4
172	Biocatalytic esterification of caprylic acid with caprylic alcohol by immobilized lipase on amino-functionalized mesoporous silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 406, 75-83.	2.3	26
173	Immobilization of Burkholderia cepacia lipase on functionalized ionic liquids modified mesoporous silica SBA-15. Process Biochemistry, 2012, 47, 2291-2299.	1.8	55
174	Encapsulation of enzyme in large mesoporous material with small mesoporous windows. Chemical Communications, 2012, 48, 7853.	2.2	25
175	Modification of Mesoporous Silicates for Immobilization of Enzymes. Topics in Catalysis, 2012, 55, 1101-1106.	1.3	20
176	Effects of Microenvironment on Supported Enzymes. Topics in Catalysis, 2012, 55, 1114-1123.	1.3	8
177	Progress in materials for thermal ablation of cancer cells. Journal of Materials Chemistry, 2012, 22, 20128.	6.7	20
178	Magnetic Nanoparticles Entrapped in Siliceous Mesocellular Foam: A New Catalyst Support. Chemistry - A European Journal, 2012, 18, 7394-7403.	1.7	27
179	SBA-15 silicas containing sucrose. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1093-1099.	2.0	8
180	In vitro release of organophosphorus acid anhydrolase from functionalized mesoporous silica against nerve agents. Analytical Biochemistry, 2012, 421, 477-481.	1.1	9
181	Formation of a nanohybrid composite between mesostructured cellular silica foam and microporous copper trimesate. Microporous and Mesoporous Materials, 2012, 155, 75-81.	2.2	21
182	Immobilization of lipase on aminopropyl-grafted mesoporous silica nanotubes for the resolution of (R, S)-1-phenylethanol. Journal of Molecular Catalysis B: Enzymatic, 2012, 76, 82-88.	1.8	27
183	Enzymeâ€“magnetic nanoparticle hybrids: new effective catalysts for the production of high value chemicals. Journal of Chemical Technology and Biotechnology, 2012, 87, 583-594.	1.6	84
184	Solid luminescent CdSeâ€thiolated porous phosphate heterostructures. Application in fingermark detection in different surfaces. Surface and Interface Analysis, 2013, 45, 612-618.	0.8	16
185	Non-destructively shattered mesoporous silica for protein drug delivery. Microporous and Mesoporous Materials, 2013, 175, 157-160.	2.2	8
186	Immobilization of Î²-glucosidase on bifunctional periodic mesoporous organosilicas. Biotechnology Letters, 2013, 35, 1323-1330.	1.1	8

#	Article	IF	Citations
187	Activity of amino-functionalised mesoporous solid bases in microwave-assisted condensation reactions. Catalysis Communications, 2013, 33, 1-6.	1.6	12
188	Synthesis of mesoporous hollow silica nanospheres using polymeric micelles as template and their application as a drug-delivery carrier. Dalton Transactions, 2013, 42, 13381.	1.6	73
189	Immobilization of Î²-glucosidase on mercaptopropyl-functionalized mesoporous titanium dioxide. Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 303-310.	1.8	10
190	A novel approach for efficient immobilization and stabilization of papain on magnetic gold nanocomposites. Colloids and Surfaces B: Biointerfaces, 2013, 101, 280-289.	2.5	77
191	Carboxylesterase from Spodoptera Litura: Immobilization and use for the Degradation of Pesticides. Procedia Environmental Sciences, 2013, 18, 610-619.	1.3	19
192	Control and assessment of plugging of mesopores in SBA-15 materials. Microporous and Mesoporous Materials, 2013, 170, 340-345.	2.2	31
193	Isocyanate-mediated covalent immobilization of Mucor miehei lipase onto SBA-15 for transesterification reaction. Colloids and Surfaces B: Biointerfaces, 2013, 112, 139-145.	2.5	28
194	Amino-functionalized mesostructured cellular foams as carriers of glucose oxidase. Journal of Bioscience and Bioengineering, 2013, 116, 555-561.	1.1	13
195	Mesoporous silicas synthesis and application for lignin peroxidase immobilization by covalent binding method. Journal of Environmental Sciences, 2013, 25, 181-187.	3.2	21
196	Application of Different Zeolites for Improvement of the Characteristics of a pH-FET Biosensor Based on Immobilized Urease. Electroanalysis, 2013, 25, 468-474.	1.5	11
198	Progress in enzyme immobilization in ordered mesoporous materials and related applications. Chemical Society Reviews, 2013, 42, 3894.	18.7	498
199	Preparation of a magnetically recoverable biocatalyst support on monodisperse Fe3O4 nanoparticles. RSC Advances, 2013, 3, 9924.	1.7	29
200	Mesoporous Silica Nanoparticles Act as a Selfâ€Adjuvant for Ovalbumin Model Antigen in Mice. Small, 2013, 9, 3138-3146.	5.2	128
201	Mesoporous silica nanoparticles as antigen carriers and adjuvants for vaccine delivery. Nanoscale, 2013, 5, 5167.	2.8	206
202	Enhancing the catalytic properties of porcine pancreatic lipase by immobilization on SBA-15 modified by functionalized ionic liquid. Biochemical Engineering Journal, 2013, 70, 46-54.	1.8	58
203	The Adsorption of Cytochrome C on Mesoporous Silica Coated Hydroxyapatite Ceramics in PBS Solution. Key Engineering Materials, 0, 587, 39-42.	0.4	1
204	Mesoporous Silica Based Gold Catalysts: Novel Synthesis and Application in Catalytic Oxidation of CO and Volatile Organic Compounds (VOCs). Catalysts, 2013, 3, 774-793.	1.6	28
205	Immobilization of cyclodextrin glucanotransferase on aminopropyl-functionalized silica-coated superparamagnetic nanoparticles. Electronic Journal of Biotechnology, 2013, 16, .	1.2	14

#	Article	IF	Citations
206	Heated Proteins are Still Active in a Functionalized Nanoporous Support. Small, 2013, 9, 2228-2232.	5.2	11
207	Covalent immobilization ofCandida rugosalipase on aldehyde functionalized hydrophobic support and the application for synthesis of oleic acid ester. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 1618-1635.	1.9	15
208	Microspheres for Enzyme Immobilization. , 2013, , 1-47.		1
209	Improvement of the Enzyme Performance of Trypsin via Adsorption in Mesoporous Silica SBA-15: Hydrolysis of BAPNA. Molecules, 2013, 18, 1138-1149.	1.7	19
210	â€œFish-in-Netâ€ a Novel Method for Cell Immobilization of Zymomonas mobilis. PLoS ONE, 2013, 8, e79569.	1.1	19
211	Epoxidation of vinyl functionalized cubic Ia3d mesoporous silica for immobilization of penicillin G acylase. Chinese Journal of Catalysis, 2014, 35, 1709-1715.	6.9	13
212	Comparative Studies on Enzymatic Activity of Porcine Pancreatic Lipase Immobilized onto Functionalized Rod-Like SBA-15 Mesoporous Materials with Aminopropyl and Glutaraldehyde. Advanced Materials Research, 0, 924, 373-376.	0.3	0
213	Effect of surface modification of low cost mesoporous SiO2 carriers on the properties of immobilized lipase. Journal of Colloid and Interface Science, 2014, 417, 210-216.	5.0	53
214	Immobilization of Candida sp.99-125 lipase onto silanized SBA-15 mesoporous materials by physical adsorption. Korean Journal of Chemical Engineering, 2014, 31, 98-103.	1.2	13
215	Immobilization of bile salt hydrolase enzyme on mesoporous SBA-15 for co-precipitation of cholesterol. International Journal of Biological Macromolecules, 2014, 63, 218-224.	3.6	11
216	Atom transfer radical polymerization of diverse functional SBA-15 for selective separation of proteins. Microporous and Mesoporous Materials, 2014, 200, 165-173.	2.2	14
217	Surfactant recovery from mesoporous metal-modified materials (Snâ€“, Yâ€“, Ceâ€“, Siâ€“MCM-41), by ultrasound assisted ion-exchange extraction and its re-use for a microwave in situ cheap and eco-friendly MCM-41 synthesis. Journal of Materials Chemistry A, 2014, 2, 7020-7033.	5.2	22
218	Glucose oxidase enzyme immobilized porous silica for improved performance of a glucose biosensor. Biochemical Engineering Journal, 2014, 91, 78-85.	1.8	43
219	Development of Coconut Shell Activated Carbon-Tethered Urease for Degradation of Urea in a Packed Bed. ACS Sustainable Chemistry and Engineering, 2014, 2, 433-439.	3.2	19
220	Stability, Hydration, and Thermodynamic Properties of RNase A Confined in Surface-Functionalized SBA-15 Mesoporous Molecular Sieves. Journal of Physical Chemistry C, 2014, 118, 21523-21531.	1.5	11
221	Improvement of the activation of lipase from Candida rugosa following physical and chemical immobilization on modified mesoporous silica. Materials Science and Engineering C, 2014, 45, 261-269.	3.8	9
222	Cyclodextrin glucanotransferase immobilization onto functionalized magnetic double mesoporous coreâ€“shell silica nanospheres. Electronic Journal of Biotechnology, 2014, 17, 55-64.	1.2	31
223	Fast Multipoint Immobilized MOF Bioreactor. Chemistry - A European Journal, 2014, 20, 8923-8928.	1.7	58

#	Article	IF	Citations
224	Immobilization, stability and enzymatic activity of albumin and trypsin adsorbed onto nanostructured mesoporous SBA-15 with compatible pore sizes. RSC Advances, 2014, 4, 4387-4394.	1.7	34
225	Application of enzyme/zeolite sensor for urea analysis in serum. Materials Science and Engineering C, 2014, 42, 155-160.	3.8	27
226	One-pot synthesis of aldehyde-functionalized mesoporous silica-Fe3O4 nanocomposites for immobilization of penicillin G acylase. Microporous and Mesoporous Materials, 2014, 197, 1-7.	2.2	11
227	3D graphene nano-grid as a homogeneous protein distributor for ultrasensitive biosensors. Biosensors and Bioelectronics, 2014, 61, 422-428.	5.3	7
228	Nanosized zeolites as a perspective material for conductometric biosensors creation. Nanoscale Research Letters, 2015, 10, 209.	3.1	19
229	Facile One-Pot Synthesis of Amine-Functionalized Mesoporous Silica Nanospheres for Water-Medium Knoevenagel Reaction Under Microwave Irradiation. Catalysis Letters, 2015, 145, 1072-1079.	1.4	24
230	Application of cellulose/lignin hydrogel beads as novel supports for immobilizing lipase. Journal of Molecular Catalysis B: Enzymatic, 2015, 119, 33-39.	1.8	70
231	Immobilization of bovine carbonic anhydrase on glycidoxypropyl-functionalized nanostructured mesoporous silicas for carbonation reaction. Journal of Molecular Catalysis B: Enzymatic, 2015, 116, 134-139.	1.8	17
232	Roles of nanostructures and carboxylic acid functionalization of ordered cubic mesoporous silicas in lysozyme immobilization. Microporous and Mesoporous Materials, 2015, 213, 150-160.	2.2	31
233	Rapid and simple preparation of thiolâ€“ene emulsion-templated monoliths and their application as enzymatic microreactors. Lab on A Chip, 2015, 15, 2162-2172.	3.1	51
234	Luminescent LuVO4:Ln3+ (Ln=Eu, Sm, Dy, Er) hollow porous spheres for encapsulation of biomolecules. Optical Materials, 2015, 48, 18-24.	1.7	11
235	Curing kinetics of self-healing epoxy thermosets. Journal of Thermal Analysis and Calorimetry, 2015, 119, 547-555.	2.0	14
236	Wood mimetic hydrogel beads for enzyme immobilization. Carbohydrate Polymers, 2015, 115, 223-229.	5.1	49
237	Plant mediated green synthesis of metallic nanoparticles. , 2016, , 149-177.		8
238	Increasing the hydrolytic activity of lipase in oil/water two-phase system using surfactantâ€“enzyme nanocomposite. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, S582-S587.	1.8	2
239	Mn porphyrins immobilized on non-modified and chloropropyl-functionalized mesoporous silica SBA-15 as catalysts for cyclohexane oxidation. Applied Catalysis A: General, 2016, 526, 9-20.	2.2	47
240	High-Resolution Structural Characterization of a Heterogeneous Biocatalyst Using Solid-State NMR. Journal of Physical Chemistry C, 2016, 120, 28717-28726.	1.5	14
241	Immobilisation of organophosphate hydrolase on mesoporous and StÃ¶ber particles. Journal of Sol-Gel Science and Technology, 2016, 79, 497-509.	1.1	3

#	Article	IF	Citations
242	Comparison of amino and epoxy functionalized SBA-15 used for carbonic anhydrase immobilization. Journal of Bioscience and Bioengineering, 2016, 122, 314-321.	1.1	22
243	Synthesis of mesoporous materials as nano-carriers for an antimalarial drug. Journal of Materials Chemistry B, 2016, 4, 1040-1043.	2.9	13
244	Methyl cellulose nanofibrous mat for lipase immobilization via cross-linked enzyme aggregates. Macromolecular Research, 2016, 24, 218-225.	1.0	12
245	Polyoxometalate-based nanozyme: Design of a multifunctional enzyme for multi-faceted treatment of Alzheimerâ€™s disease. Nano Research, 2016, 9, 1079-1090.	5.8	96
246	Red 33 dye co-encapsulated with cetyltrimethylammonium in mesoporous silica materials. Dyes and Pigments, 2016, 127, 1-8.	2.0	5
247	Highly reversible CO2 capture using amino acid functionalized ionic liquids immobilized on mesoporous silica. Chemical Engineering Journal, 2016, 287, 602-617.	6.6	89
248	Dopamine-functionalized mesoporous onion-like silica as a new matrix for immobilization of lipase Candida sp. 99-125. Scientific Reports, 2017, 7, 40395.	1.6	20
249	Cage like ordered carboxylic acid functionalized mesoporous silica with enlarged pores for enzyme adsorption. Journal of Materials Science, 2017, 52, 6322-6340.	1.7	14
250	Catecholase activity of a manganese Schiff base complex functionalized over SBA-15 in aqueous heterogeneous medium. Microporous and Mesoporous Materials, 2017, 249, 78-87.	2.2	11
251	Cellular level evaluation and lysozyme adsorption regulation of bimodal nanoporous silica. Materials Science and Engineering C, 2017, 76, 509-517.	3.8	8
252	Mesoporous silica as amine immobiliser for endowing healing functionality to epoxy resin. Composites Communications, 2017, 4, 20-23.	3.3	5
253	Immobilization of Candida antarctic lipase B on MWNTs modified by ionic liquids with different functional groups. Colloids and Surfaces B: Biointerfaces, 2017, 160, 416-422.	2.5	29
254	Rational synthesis of hierarchical magnetic mesoporous silica microspheres with tunable mesochannels for enhanced enzyme immobilization. Chemical Communications, 2017, 53, 8902-8905.	2.2	31
255	Localization of Guest Molecules in Nanopores by Pulsed EPR Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 5376-5384.	1.5	4
256	Atom economical benzylation of phenol with benzyl alcohol using 20 % (w/w)Cs 2.5 H 0.5 PW 12 O 40 supported on mesocellular foam silica (MCF) and its kinetics. Microporous and Mesoporous Materials, 2018, 263, 190-200.	2.2	29
257	Advances on methods and easy separated support materials for enzymes immobilization. TrAC - Trends in Analytical Chemistry, 2018, 102, 332-342.	5.8	296
258	Adsorption of biomolecules in porous silicas modified with zirconium. Effect of the textural properties and acidity. Microporous and Mesoporous Materials, 2018, 260, 146-154.	2.2	8
259	Immobilization of acetylcholinesterase on functionalized SBA-15 mesoporous molecular sieve for detection of organophosphorus and carbamate pesticide. Chinese Chemical Letters, 2018, 29, 1387-1390.	4.8	34

#	Article	IF	Citations
260	RF-Magnetron Sputtered Silica Interlayer on Î²-TCP Granules for Mesoporous Silica Coating. Key Engineering Materials, 0, 782, 207-211.	0.4	0
261	Magnetic nanoparticles as versatile carriers for enzymes immobilization: A review. International Journal of Biological Macromolecules, 2018, 120, 2530-2544.	3.6	311
262	Sol-gel synthesis of SBA-15: Impact of HCl on surface chemistry. Microporous and Mesoporous Materials, 2018, 271, 196-202.	2.2	31
263	Enzymatic synthesis of butyl butyrate by Candida rugosa lipase supported on magnetized-nanosilica from oil palm leaves: Process optimization, kinetic and thermodynamic study. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 105-118.	2.7	36
264	Significant Enhancement of Structural Stability of the Hyperhalophilic ADH from Haloferax volcanii via Entrapment on Metal Organic Framework Support. Langmuir, 2018, 34, 8274-8280.	1.6	23
265	Continuous flow biocatalysis. Chemical Society Reviews, 2018, 47, 5891-5918.	18.7	258
266	Functionalization of mesoporous silica surface with carboxylic groups by Meldrumâ€™s acid and its application for sorption of proteins. Journal of Porous Materials, 2019, 26, 291-300.	1.3	28
267	Pd-chelated 1,3,5-triazine organosilica as an active catalyst for Suzuki and Heck reactions. Molecular Catalysis, 2019, 476, 110521.	1.0	10
268	Acetylcholinesterase with mesoporous silica: Covalent immobilization, physiochemical characterization, and its application in food for pesticide detection. Journal of Cellular Biochemistry, 2019, 120, 10777-10786.	1.2	22
269	Enhanced adsorption of steroid estrogens by one-pot synthesized phenyl-modified mesoporous silica: Dependence on phenyl-organosilane precursors and pH condition. Chemosphere, 2019, 234, 438-449.	4.2	24
270	Biodiesel Production (FAEEs) by Heterogeneous Combi-Lipase Biocatalysts Using Wet Extracted Lipids from Microalgae. Catalysts, 2019, 9, 296.	1.6	32
271	Covalent immobilization of Bacillus subtilis lipase A on Fe3O4 nanoparticles by aldehyde tag: An ideal immobilization with minimal chemical modification. Process Biochemistry, 2019, 81, 63-69.	1.8	22
272	Immobilized Enzymes and Their Applications. , 2019, , 169-200.		18
273	Influence of the functionalisation of mesoporous silica material UVM-7 on polyphenol oxidase enzyme capture and enzymatic browning. Food Chemistry, 2020, 310, 125741.	4.2	11
274	Function and structural stability of protein adsorbed to swellable organosilica. Microporous and Mesoporous Materials, 2020, 296, 109965.	2.2	1
275	Numerical simulation and deacidification of nanomagnetic enzyme conjugate in a liquidâ€“solid magnetic fluidized bed. Process Biochemistry, 2020, 90, 32-43.	1.8	6
276	Strategies, challenges and opportunities of enzyme immobilization on porous silicon for biosensing applications. Journal of Environmental Chemical Engineering, 2020, 8, 104266.	3.3	45
277	Immobilization of Cellulolytic Enzymes in Mesostructured Silica Materials. Catalysts, 2020, 10, 706.	1.6	32

#	Article	IF	Citations
278	Probing Interactions between Metalâ€“Organic Frameworks and Freestanding Enzymes in a Hollow Structure. Nano Letters, 2020, 20, 6630-6635.	4.5	76
279	Incorporating Lanthanum into Mesoporous Silica Foam Enhances Enzyme Immobilization and the Activity of Penicillin G Acylase Due to Lewis Acidâ€Base Interactions. ChemBioChem, 2020, 21, 2143-2148.	1.3	4
280	Organophosphonate functionalized Au/Si@Fe3O4: Versatile carrier for enzyme immobilization. Methods in Enzymology, 2020, 630, 199-214.	0.4	2
281	Reduction of nitroarenes by magnetically recoverable nitroreductase immobilized on Fe3O4 nanoparticles. Scientific Reports, 2020, 10, 2810.	1.6	10
282	Covalent Organic Frameworks: Design, Synthesis, and Functions. Chemical Reviews, 2020, 120, 8814-8933.	23.0	1,968
283	Enantioseparation of racemic amlodipine using immobilized ionic liquid by solidâ€phase extraction. Chirality, 2020, 32, 1062-1071.	1.3	8
284	One-pot synthesis of trypsin-based magnetic metalâ€“organic frameworks for highly efficient proteolysis. Journal of Materials Chemistry B, 2020, 8, 4642-4647.	2.9	14
285	Natural marble powder-modified SBA-15 as an efficient catalyst for the selective production of 2-methyl-2-pentenal from n-propanal self-aldol condensation. Journal of Industrial and Engineering Chemistry, 2021, 94, 448-456.	2.9	3
286	Starch magnetic nanocomposites for gene delivery. , 2021, , 295-309.		1
287	Direct synthesis of Cerium(â…£)-Incorporated mesostructured cellular foam for immobilization of penicillin G acylase. Microporous and Mesoporous Materials, 2021, 312, 110762.	2.2	0
288	Construction of Magnetic Nanoparticleâ€“Enzyme Complexes with High Loading Efficiency by In Situ Embedding Iron Oxide into Enzymes. Industrial & Engineering Chemistry Research, 2021, 60, 9002-9011.	1.8	1
289	Endogenous Fe2+-activated ROS nanoamplifier for esterase-responsive and photoacoustic imaging-monitored therapeutic improvement. Nano Research, 2022, 15, 907-918.	5.8	20
290	Challenges and Opportunities for the Encapsulation of Enzymes over Porous Solids for Biodiesel Production and Cellulose Valorization into Glucose. ChemCatChem, 2021, 13, 4679-4693.	1.8	12
291	Biocomposites based on SBA-15 and papain: Characterization, enzymatic activity and cytotoxicity evaluation. Microporous and Mesoporous Materials, 2021, 325, 111316.	2.2	7
292	Highly effective enzymes immobilization on ceramics: Requirements for supports and enzymes. Science of the Total Environment, 2021, 801, 149647.	3.9	39
293	Recent advances in mesoporous materials for sample preparation in proteomics research. TrAC - Trends in Analytical Chemistry, 2018, 99, 88-100.	5.8	50
294	Magnetic nanoparticles for gene and drug delivery. International Journal of Nanomedicine, 2008, 3, 169.	3.3	503
295	Investigation of Acid Blue 62 Dye Adsorption using SBA-15/Polyaniline Mesoporous Nanocomposite: Kinetic and Thermodynamic Study. UlÅ«m-i BihdÄshtÄ«-i Ä²rÄn, 2017, 5, 17-34.	0.1	7

#	Article	IF	Citations
296	Surface-coated magnetic nanostructured materials for robust bio-catalysis and biomedical applications-A review. Journal of Advanced Research, 2022, 38, 157-177.	4.4	22
297	Characteristics of Hydrolysis with Lipase Immobilized in Mesoporous Silica. Kagaku Kogaku Ronbunshu, 2005, 31, 133-137.	0.1	0
298	Fabrication and Function of Biohybrid Nanomaterials Prepared via Supramolecular Approaches. , 2008, , 335-366.		0
299	Mesoporous Ceramics as Drug Delivery Systems. , 2012, , 67-104.		0
300	The Simultaneous Determination of Ascorbic Acid, Paracetamol, and Caffeine by Voltammetry Method Using Cobalt Schiff Base Complex/SBA-15 Modified Electrode. ECS Journal of Solid State Science and Technology, 2020, 9, 101004.	0.9	3
302	Effect of Functional Group on the Catalytic Activity of Lipase B from Candida antarctica Immobilized in a Silica-Reinforced Pluronic F127/Î±-Cyclodextrin Hydrogel. Gels, 2022, 8, 3.	2.1	3
303	Pore Architecture Influences the Enzyme Immobilization Performance of Mesoporous Silica Nanospheres. SSRN Electronic Journal, 0, , .	0.4	0
304	Synthesis of SBA-15 and pore-expanded SBA-15 and surface modification with tin for covalent lipase immobilization. Microporous and Mesoporous Materials, 2022, 337, 111951.	2.2	5
305	Pore architecture influences the enzyme immobilization performance of mesoporous silica nanospheres. Microporous and Mesoporous Materials, 2022, 338, 111963.	2.2	10
306	Bioinspired Mesoporous Silica for Cd(II) Removal from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2022, 61, 8188-8203.	1.8	7
307	Enhanced Feâ€“Cr dispersion on mesoporous silica support using surfactant-assisted melt-infiltration for the water-gas shift reaction in waste-to-hydrogen processes. International Journal of Hydrogen Energy, 2023, 48, 24894-24903.	3.8	5
308	Immobilization of L-ribose isomerase on the surface of activated mesoporous MCM41 and SBA15 for the synthesis of L-ribose. Journal of Biotechnology, 2023, 362, 45-53.	1.9	0