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Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools

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106	ChemInform Abstract: Amination of Enzymes to Improve Biocatalyst Performance: Coupling Genetic Modification and Physicochemical Tools. 2014 , 45, no-no		
105	Importance of the Support Properties for Immobilization or Purification of Enzymes. 2015 , 7, 2413-243	2	387
104	Chemical amination of Rhizopus oryzae lipase for multipoint covalent immobilization on epoxy-functionalized supports: Modulation of stability and selectivity. 2015 , 115, 128-134		31
103	Tuning the catalytic properties of lipases immobilized on divinylsulfone activated agarose by altering its nanoenvironment. 2015 , 77, 1-7		57
102	Enhanced Activity of Immobilized or Chemically Modified Enzymes. 2015 , 5, 4503-4513		278
101	Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. 2015 , 176, 999-1011		14
100	Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. 2015 , 33, 435-56		463
99	Enzyme immobilization onto renewable polymeric matrixes: Past, present, and future trends. 2015 , 132, n/a-n/a		64
98	Selective concentration of eicosapentaenoic acid and docosahexaenoic acid from fish oil with immobilized/stabilized preparations of Rhizopus oryzae lipase. 2015 , 122, 147-155		18
97	Optimized preparation and characterization of CLEA-lipase from cocoa pod husk. 2015 , 202, 153-61		29
96	Stabilization of Candida antarctica Lipase B (CALB) Immobilized on Octyl Agarose by Treatment with Polyethyleneimine (PEI). 2016 , 21,		38
95	Immobilization of Glycoside Hydrolase Families GH1, GH13, and GH70: State of the Art and Perspectives. 2016 , 21,		34
94	Agarose and Its Derivatives as Supports for Enzyme Immobilization. 2016 , 21,		149
93	Preparation and characterization of a highly stable phenoxazinone synthase nanogel. 2016 , 10, 34		5
92	Cocoa pod husk, a new source of hydrolase enzymes for preparation of cross-linked enzyme aggregate. 2016 , 5, 57		17
91	Operational stabilities of different chemical derivatives of Novozym 435 in an alcoholysis reaction. 2016 , 90, 35-44		50
90	Rational immobilization of lipase by combining the structure analysis and unnatural amino acid insertion. 2016 , 132, 54-60		14

(2018-2016)

89	Covalent immobilization of glucose oxidase on amino MOFs via post-synthetic modification. <i>RSC Advances</i> , 2016 , 6, 108051-108055	3.7	32
88	Nanomaterials for biocatalyst immobilization latate of the art and future trends. <i>RSC Advances</i> , 2016 , 6, 104675-104692	3.7	229
87	Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. 2016 , 16, 1436-55		132
86	Btable-on-the-TableEnzymes: Engineering the Enzyme©raphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst. 2016 , 6, 339-347		31
85	Preparation and characterization of a Combi-CLEAs from pectinases and cellulases: a potential biocatalyst for grape juice clarification. <i>RSC Advances</i> , 2016 , 6, 27242-27251	3.7	49
84	Effect of chemical modification of Novozym 435 on its performance in the alcoholysis of camelina oil. 2016 , 111, 75-86		67
83	Galacto-oligosaccharide synthesis using chemically modified Egalactosidase from Aspergillus oryzae immobilised onto macroporous amino resin. 2016 , 54, 50-57		25
82	Chemical amination of lipases improves their immobilization on octyl-glyoxyl agarose beads. 2016 , 259, 107-118		54
81	Solid-phase amination of Geotrichum candidum lipase: ionic immobilization, stabilization and fish oil hydrolysis for the production of Omega-3 polyunsaturated fatty acids. 2017 , 243, 1375-1384		7
80	Stabilization of ficin extract by immobilization on glyoxyl agarose. Preliminary characterization of the biocatalyst performance in hydrolysis of proteins. 2017 , 58, 98-104		43
79	Enhancement of lipase stability and productivity through chemical modification and its application to latex-based polymer emulsions. 2017 , 57, 131-140		12
78	A novel cross-linked enzyme aggregates (CLEAs) of papain and neutrase-production, partial characterization and application. 2017 , 95, 650-657		31
77	Physical crosslinking of lipase from Rhizomucor miehei immobilized on octyl agarose via coating with ionic polymers. 2017 , 54, 81-88		49
76	Dual, Site-Specific Modification of Antibodies by Using Solid-Phase Immobilized Microbial Transglutaminase. 2017 , 18, 1923-1927		34
75	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. 2017 , 5, 7461-7490		162
74	New Strategy for the Immobilization of Lipases on Glyoxyl-Agarose Supports: Production of Robust Biocatalysts for Natural Oil Transformation. 2017 , 18,		15
73	Design and Characterization of Hierarchical Porous Inorganic Solids for Enzyme Immobilization. 2017 , 309-333		
72	Attachment of enzymes to hydrophilic magnetic nanoparticles through DNA-directed immobilization with enhanced stability and catalytic activity. 2018 , 42, 8458-8468		17

71	Co-immobilization of lipases and Ed -galactosidase onto magnetic nanoparticle supports: Biochemical characterization. 2018 , 453, 12-21	19
70	Modification of Immobead 150 support for protein immobilization: Effects on the properties of immobilized Aspergillus oryzae Egalactosidase. 2018 , 34, 934-943	8
69	1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. 2018 , 34, 910-920	18
68	Immobilization and stabilization of commercial E1,4-endoxylanase DepolB33MDP by multipoint covalent attachment for xylan hydrolysis: Production of prebiotics (xylo-oligosaccharides). 2018 , 36, 141-150	13
67	Further Stabilization of Alcalase Immobilized on Glyoxyl Supports: Amination Plus Modification with Glutaraldehyde. 2018 , 23,	13
66	Electrochemical Study of Enzymatic Glucose Sensors Biocatalyst: Thermal Degradation after Long-Term Storage. 2018 , 6, 53	7
65	A Facile Route for Oriented Covalent Immobilization of Recombinant Protein A on Epoxy Agarose Gels: In Situ Generation of Heterofunctional Amino-Epoxy Supports. 2018 , 3, 10320-10324	2
64	Chitosan-alginate immobilized lipase based catalytic constructs: Development, characterization and potential applications. 2018 , 119, 992-1001	13
63	Maltose Production Using Starch from Cassava Bagasse Catalyzed by Cross-Linked EAmylase Aggregates. 2018 , 8, 170	21
62	Solid phase chemical modification of agarose glyoxyl-ficin: Improving activity and stability properties by amination and modification with glutaraldehyde. 2018 , 73, 109-116	17
61	"Smart" chemistry and its application in peroxidase immobilization using different support materials. 2018 , 119, 278-290	111
60	Integrating enzyme immobilization and protein engineering: An alternative path for the development of novel and improved industrial biocatalysts. 2018 , 36, 1470-1480	149
59	Improvement of cross-linking and stability on cross-linked enzyme aggregate (CLEA)-xylanase by protein surface engineering. 2019 , 86, 40-49	13
58	Combi-CLEAs of Glucose Oxidase and Catalase for Conversion of Glucose to Gluconic Acid Eliminating the Hydrogen Peroxide to Maintain Enzyme Activity in a Bubble Column Reactor. 2019 , 9, 657	19
57	Preparation of immobilized/stabilized biocatalysts of Eglucosidases from different sources: Importance of the support active groups and the immobilization protocol. 2019 , 35, e2890	2
56	Optimized immobilization of polygalacturonase from Aspergillus niger following different protocols: Improved stability and activity under drastic conditions. 2019 , 138, 234-243	30
55	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. 2019 , 9, 622	22
54	Lecitase ultra: A phospholipase with great potential in biocatalysis. 2019 , 473, 110405	24

(2021-2019)

53	Amination of ficin extract to improve its immobilization on glyoxyl-agarose: Improved stability and activity versus casein. 2019 , 133, 412-419	15
52	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. 2019 , 37, 746-770	254
51	Coupling and Regulation of Porous Carriers Using Plasma and Amination to Improve the Catalytic Performance of Glucose Oxidase and Catalase. 2019 , 7, 426	13
50	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. 2019 , 9, 1035	27
49	Improving biocatalytic microenvironment with biocompatible Epoly-l-lysine for one step gluconic acid production in low pH enzymatic systems. 2019 , 76, 118-127	6
48	Biocatalyst engineering of Thermomyces Lanuginosus lipase adsorbed on hydrophobic supports: Modulation of enzyme properties for ethanolysis of oil in solvent-free systems. 2019 , 289, 126-134	31
47	Parameters necessary to define an immobilized enzyme preparation. 2020 , 90, 66-80	162
46	Use of Alcalase in the production of bioactive peptides: A review. 2020 , 165, 2143-2196	42
45	Enzyme-Coated Micro-Crystals: An Almost Forgotten but Very Simple and Elegant Immobilization Strategy. 2020 , 10, 891	16
44	Ficin: A protease extract with relevance in biotechnology and biocatalysis. 2020 , 162, 394-404	24
43	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. 2020 , 10, 605	35
42	Amperometric biosensor based on coupling aminated laccase to functionalized carbon nanotubes for phenolics detection. 2020 , 153, 855-864	25
41	Reduction of nitroarenes by magnetically recoverable nitroreductase immobilized on FeO nanoparticles. 2020 , 10, 2810	6
40	Biotechnological relevance of the lipase A from Candida antarctica. 2021 , 362, 141-154	39
39	Metal ions coordinated immobilization of phenylalanine dehydrogenase by GO-PEI with high activity recovery and enhanced stability. 2021 , 96, 1049-1056	3
38	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. 2021 , 164, 1566-1587	42
37	Effect of Concentrated Salts Solutions on the Stability of Immobilized Enzymes: Influence of Inactivation Conditions and Immobilization Protocol. 2021 , 26,	5
36	Effect of amine length in the interference of the multipoint covalent immobilization of enzymes on glyoxyl agarose beads. 2021 , 329, 128-142	8

35	Positive effect of glycerol on the stability of immobilized enzymes: Is it a universal fact?. 2021 , 102, 108-121	5
34	Modified silicates and carbon nanotubes for immobilization of lipase from Rhizomucor miehei: Effect of support and immobilization technique on the catalytic performance of the immobilized biocatalysts. 2021 , 144, 109739	10
33	Recent Advances in Biocatalysis with Chemical Modification and Expanded Amino Acid Alphabet. 2021 , 121, 6173-6245	21
32	Textile Dye Biodecolorization by Manganese Peroxidase: A Review. 2021 , 26,	8
31	Multicatalytic Hybrid Materials for Biocatalytic and Chemoenzymatic CascadesBtrategies for Multicatalyst (Enzyme) Co-Immobilization. 2021 , 11, 936	5
30	L-proline modified inactivated lipase and its immobilization on cellulose-based material: stability and enantioselectivity. 2021 , 96, 2909-2915	2
29	Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions. 2021 , 184, 415-428	11
28	Immobilization of papain: A review. 2021 , 188, 94-113	8
27	Application of Rhizomucor miehei lipase-displaying Pichia pastoris whole cell for biodiesel production using agro-industrial residuals as substrate. 2021 , 189, 734-743	4
26	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. 2021 , 52, 107821	50
25	Entrapment of porous cross-linked enzyme aggregates of maltogenic amylase from Bacillus lehensis G1 into calcium alginate for maltooligosaccharides synthesis. 2020 , 150, 80-89	14
24	Stabilization and operational selectivity alteration of Lipozyme 435 by its coating with polyethyleneimine: Comparison of the biocatalyst performance in the synthesis of xylose fatty esters. 2021 , 192, 665-674	1
23	Optimization of a Method for Ficin Immobilization Using Glutaraldehyde. 2020, 36, 81-88	O
22	Enhanced Performance of Bioelectrodes Made with Amination-Modified Glucose Oxidase Immobilized on Carboxyl-Functionalized Ordered Mesoporous Carbon. 2021 , 11,	
21	Silica-based nanomaterials in biocatalysis. 2022 , 171-188	О
20	Polymers and metal@rganic frameworks as supports in biocatalysis: applications and future trend. 2022 , 323-338	
19	Immobilization of xylanase on differently functionalized silica gel supports for orange juice clarification. 2022 , 113, 270-280	1
18	Applications of immobilized lipases in enzymatic reactors: A review. 2022 , 114, 1-20	5

CITATION REPORT

17	Chemical amination of immobilized enzymes for enzyme coimmobilization: Reuse of the most stable immobilized and modified enzyme 2022 ,	3
16	Data_Sheet_1.PDF. 2019 ,	
15	A review on the immobilization of pepsin: A Lys-poor enzyme that is unstable at alkaline pH values 2022 ,	2
14	Protein surface engineering and interaction studies of maltogenic amylase towards improved enzyme immobilisation. 2022 , 213, 70-82	O
13	Lipase immobilization via cross-linked enzyme aggregates: Problems and prospects IA review. 2022 , 215, 434-449	3
12	Is enzyme immobilization a mature discipline? Some critical considerations to capitalize on the benefits of immobilization.	14
11	Tuning Immobilized Commercial Lipase Preparations Features by Simple Treatment with Metallic Phosphate Salts. 2022 , 27, 4486	1
10	Towards Non-Stick Silk: Tuning the Hydrophobicity of Silk Fibroin Protein.	
9	Optimization of the immobilization of xylanase from Thermomyces lanuginosus to produce xylooligosaccharides in a batch type reactor. 2022 , 531, 112647	O
8	Switch off/switch on of a cysteinyl protease as a way to preserve the active catalytic group by modification with a reversible covalent thiol modifier: Immobilization of ficin on vinyl-sulfone activated supports. 2022 , 220, 1155-1162	O
7	Immobilization-stabilization of the dimeric D-amino acid oxidase from porcine kidney. 2022,	1
6	Biosynthesis of alkanes/alkenes from fatty acids or derivatives (triacylglycerols or fatty aldehydes). 2022 , 61, 108045	O
5	The immobilization protocol greatly alters the effects of metal phosphate modification on the activity/stability of immobilized lipases. 2022 ,	1
4	Tuning Immobilized Enzyme Features by Combining Solid-Phase Physicochemical Modification and Mineralization. 2022 , 23, 12808	O
3	Postimmobilization treatments before applications. 2023, 55-85	O
2	The enzyme, the support, and the immobilization strategy: The key findings to a desirable biocatalyst. 2023 , 1-16	O
1	Laccase multi-point covalent immobilization: characterization, kinetics, and its hydrophobicity applications. 2023 , 107, 719-733	O