List of Publications by Year in descending order

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Ιλκιίς Ζάλοτλ

#	Article	IF	CITATIONS
1	A contemporary review of enzymatic applications in the remediation of emerging estrogenic compounds. Critical Reviews in Environmental Science and Technology, 2022, 52, 2661-2690.	12.8	17
2	Mimicking natural strategies to create multi-environment enzymatic reactors: From natural cell compartments to artificial polyelectrolyte reactors. Biotechnology Advances, 2022, 54, 107798.	11.7	20
3	Free and immobilized biocatalysts for removing micropollutants from water and wastewater: Recent progress and challenges. Bioresource Technology, 2022, 344, 126201.	9.6	61
4	Enzyme-based control of membrane biofouling for water and wastewater purification: A comprehensive review. Environmental Technology and Innovation, 2022, 25, 102106.	6.1	20
5	Removal of tetracycline in enzymatic membrane reactor: Enzymatic conversion as the predominant mechanism over adsorption and membrane rejection. Journal of Environmental Chemical Engineering, 2022, 10, 106973.	6.7	15
6	Nanobiocatalysts for wastewater remediation and redefining of pollutants. , 2022, , 313-337.		0
7	Biotechnology – current achievements and future challenges. AIMS Bioengineering, 2022, 9, 61-63.	1.1	0
8	Biocatalytic System Made of 3D Chitin, Silica Nanopowder and Horseradish Peroxidase for the Removal of 17α-Ethinylestradiol: Determination of Process Efficiency and Degradation Mechanism. Molecules, 2022, 27, 1354.	3.8	10
9	Enzymatic membrane reactor in xylose bioconversion with simultaneous cofactor regeneration. Bioorganic Chemistry, 2022, 123, 105781.	4.1	3
10	Bioremoval of estrogens by laccase immobilized onto polyacrylonitrile/polyethersulfone material: Effect of inhibitors and mediators, process characterization and catalytic pathways determination. Journal of Hazardous Materials, 2022, 432, 128688.	12.4	16
11	Removal of Persistent Sulfamethoxazole and Carbamazepine from Water by Horseradish Peroxidase Encapsulated into Poly(Vinyl Chloride) Electrospun Fibers. International Journal of Molecular Sciences, 2022, 23, 272.	4.1	12
12	Synergistic action of laccase treatment and membrane filtration during removal of azo dyes in an enzymatic membrane reactor upgraded with electrospun fibers. Journal of Hazardous Materials, 2022, 435, 129071.	12.4	25
13	Laccase immobilization in polyelectrolyte multilayer membranes for 17α-ethynylestradiol removal: Biocatalytic approach for pharmaceuticals degradation. Chemosphere, 2022, 304, 135374.	8.2	5
14	Immobilized Lipase in Resolution of Ketoprofen Enantiomers: Examination of Biocatalysts Properties and Process Characterization. Pharmaceutics, 2022, 14, 1443.	4.5	4
15	Biomethane production from anaerobic co-digestion at wastewater treatment plants: A critical review on development and innovations in biogas upgrading techniques. Science of the Total Environment, 2021, 765, 142753.	8.0	103
16	Horseradish peroxidase immobilised onto electrospun fibres and its application in decolourisation of dyes from model sea water. Process Biochemistry, 2021, 102, 10-21.	3.7	32
17	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. Food Research International, 2021, 140, 109979.	6.2	38
18	Valorizing agricultural residues as biorefinery feedstocks: current advancements and challenges. , 2021, , 25-48.		0

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19	Electrospun biosystems made of nylon 6 and laccase and its application in dyes removal. Environmental Technology and Innovation, 2021, 21, 101332.	6.1	18
20	Enhanced Wastewater Treatment by Immobilized Enzymes. Current Pollution Reports, 2021, 7, 167-179.	6.6	51
21	Pristine and Poly(Dimethylsiloxane) Modified Multi-Walled Carbon Nanotubes as Supports for Lipase Immobilization. Materials, 2021, 14, 2874.	2.9	8
22	New Biocomposite Electrospun Fiber/Alginate Hydrogel for Probiotic Bacteria Immobilization. Materials, 2021, 14, 3861.	2.9	12
23	From core-shell like structured zirconia/magnetite hybrid towards novel biocatalytic systems for tetracycline removal: Synthesis, enzyme immobilization, degradation and toxicity study. Journal of Environmental Chemical Engineering, 2021, 9, 105701.	6.7	18
24	Tailor-made novel electrospun polystyrene/poly(d,l-lactide-co-glycolide) for oxidoreductases immobilization: Improvement of catalytic properties under extreme reaction conditions. Bioorganic Chemistry, 2021, 114, 105036.	4.1	18
25	Significance of the presence of antibiotics on the microbial consortium in wastewater – The case of nitrofurantoin and furazolidone. Bioresource Technology, 2021, 339, 125577.	9.6	5
26	The shadow pandemic of single use personal protective equipment plastic waste: A blue print for suppression and eradication. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100125.	6.1	24
27	Promotion of direct interspecies electron transfer and potential impact of conductive materials in anaerobic digestion and its downstream processing - a critical review. Bioresource Technology, 2021, 341, 125847.	9.6	29
28	A promising laccase immobilization using electrospun materials for biocatalytic degradation of tetracycline: Effect of process conditions and catalytic pathways. Catalysis Today, 2020, 348, 127-136.	4.4	76
29	Mesostructured cellular foam silica materials for laccase immobilization and tetracycline removal: A comprehensive study. Microporous and Mesoporous Materials, 2020, 291, 109688.	4.4	21
30	A highly effective approach to cofactor regeneration and subsequent membrane separation of bioconversion products: Kinetic parameters and effect of process conditions. Bioresource Technology Reports, 2020, 9, 100365.	2.7	2
31	The response surface methodology for optimization of tyrosinase immobilization onto electrospun polycaprolactone–chitosan fibers for use in bisphenol A removal. International Journal of Biological Macromolecules, 2020, 165, 2049-2059.	7.5	26
32	Antimicrobial Activity and Barrier Properties against UV Radiation of Alkaline and Enzymatically Treated Linen Woven Fabrics Coated with Inorganic Hybrid Material. Molecules, 2020, 25, 5701.	3.8	7
33	Direct separation of acetate and furfural from xylose by nanofiltration of birch pretreated liquor: Effect of process conditions and separation mechanism. Separation and Purification Technology, 2020, 239, 116546.	7.9	12
34	Electrospun poly(methyl methacrylate)/polyaniline fibres as a support for laccase immobilisation and use in dye decolourisation. Environmental Research, 2020, 184, 109332.	7.5	78
35	A Novel Approach in Crude Enzyme Laccase Production and Application in Emerging Contaminant Bioremediation. Processes, 2020, 8, 648.	2.8	17
36	Blue-Green Algae in Surface Water: Problems and Opportunities. Current Pollution Reports, 2020, 6, 105-122.	6.6	33

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37	3D Chitin Scaffolds from the Marine Demosponge Aplysina archeri as a Support for Laccase Immobilization and Its Use in the Removal of Pharmaceuticals. Biomolecules, 2020, 10, 646.	4.0	25
38	Application of Enzymatic-Based Bioreactors. , 2020, , 110-121.		2
39	Co-Immobilization of Glucose Dehydrogenase and Xylose Dehydrogenase as a New Approach for Simultaneous Production of Gluconic and Xylonic Acid. Materials, 2019, 12, 3167.	2.9	12
40	Multi-faceted strategy based on enzyme immobilization with reactant adsorption and membrane technology for biocatalytic removal of pollutants: A critical review. Biotechnology Advances, 2019, 37, 107401.	11.7	130
41	Robust biodegradation of naproxen and diclofenac by laccase immobilized using electrospun nanofibers with enhanced stability and reusability. Materials Science and Engineering C, 2019, 103, 109789.	7.3	81
42	Laccase Immobilized onto Zirconia–Silica Hybrid Doped with Cu2+ as an Effective Biocatalytic System for Decolorization of Dyes. Materials, 2019, 12, 1252.	2.9	33
43	The role of novel lignosulfonate-based sorbent in a sorption mechanism of active pharmaceutical ingredient: batch adsorption tests and interaction study. Adsorption, 2019, 25, 865-880.	3.0	16
44	Bioconversion of xylose to xylonic acid via co-immobilized dehydrogenases for conjunct cofactor regeneration. Bioorganic Chemistry, 2019, 93, 102747.	4.1	15
45	Advanced Ga2O3/Lignin and ZrO2/Lignin Hybrid Microplatforms for Glucose Oxidase Immobilization: Evaluation of Biosensing Properties by Catalytic Glucose Oxidation. Catalysts, 2019, 9, 1044.	3.5	18
46	Removal of nickel(II) and lead(II) ions from aqueous solution using peat as a low-cost adsorbent: A kinetic and equilibrium study. Arabian Journal of Chemistry, 2018, 11, 1209-1222.	4.9	129
47	The development of zirconia/silica hybrids for the adsorption and controlled release of active pharmaceutical ingredients. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 545, 39-50.	4.7	19
48	Physicochemical and catalytic properties of acylase I from <i>aspergillus melleus</i> immobilized on amino―and carbonylâ€grafted stöber silica. Biotechnology Progress, 2018, 34, 767-777.	2.6	12
49	The effect of operational parameters on the biodegradation of bisphenols by Trametes versicolor laccase immobilized on Hippospongia communis spongin scaffolds. Science of the Total Environment, 2018, 615, 784-795.	8.0	143
50	Carbon paste electrode based on functional GOx/silica-lignin system to prepare an amperometric glucose biosensor. Sensors and Actuators B: Chemical, 2018, 256, 176-185.	7.8	112
51	Titania/lignin hybrid materials as a novel support for α-amylase immobilization: A comprehensive study. Colloids and Surfaces B: Biointerfaces, 2018, 162, 90-97.	5.0	47
52	An organofunctionalized MgOâ^™SiO2 hybrid support and its performance in the immobilization of lipase from Candida rugosa. Korean Journal of Chemical Engineering, 2018, 35, 2220-2231.	2.7	7
53	Magnetic biocomposites as support for trypsin immobilization: application for protein digestion. New Biotechnology, 2018, 44, S131-S132.	4.4	1
54	Synergistic Degradation of Dye Wastewaters Using Binary or Ternary Oxide Systems with Immobilized Laccase. Catalysts, 2018, 8, 402.	3.5	73

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55	Degradation of bisphenols using immobilized laccase supported onto biopolymer marine sponge scaffolds: Effect of operational parameters on removal efficiency. New Biotechnology, 2018, 44, S163.	4.4	3
56	Upgrading of Biomass Monosaccharides by Immobilized Glucose Dehydrogenase and Xylose Dehydrogenase. ChemCatChem, 2018, 10, 5164-5173.	3.7	16
57	Developments in support materials for immobilization of oxidoreductases: A comprehensive review. Advances in Colloid and Interface Science, 2018, 258, 1-20.	14.7	203
58	A General Overview of Support Materials for Enzyme Immobilization: Characteristics, Properties, Practical Utility. Catalysts, 2018, 8, 92.	3.5	626
59	Biopolymers conjugated with magnetite as support materials for trypsin immobilization and protein digestion. Colloids and Surfaces B: Biointerfaces, 2018, 169, 118-125.	5.0	37
60	Zaawansowane funkcjonalne materiaÅ,y wytwarzane z użyciem substancji pochodzenia naturalnego. Przemysl Chemiczny, 2018, 1, 52-62.	0.0	0
61	Magnetite nanoparticles conjugated with lignin: A physicochemical and magnetic study. Applied Surface Science, 2017, 422, 94-103.	6.1	28
62	High-performance removal of acids and furans from wheat straw pretreatment liquid by diananofiltration. Separation Science and Technology, 2017, 52, 1901-1912.	2.5	10
63	Lipase B from Candida antarctica Immobilized on a Silica-Lignin Matrix as a Stable and Reusable Biocatalytic System. Catalysts, 2017, 7, 14.	3.5	36
64	Immobilization of Cellulase on a Functional Inorganic–Organic Hybrid Support: Stability and Kinetic Study. Catalysts, 2017, 7, 374.	3.5	46
65	Spongin-Based Scaffolds from Hippospongia communis Demosponge as an Effective Support for Lipase Immobilization. Catalysts, 2017, 7, 147.	3.5	35
66	Active MgO-SiO 2 hybrid material for organic dye removal: A mechanism and interaction study of the adsorption of C.I. Acid Blue 29 and C.I. Basic Blue 9. Journal of Environmental Management, 2017, 204, 123-135.	7.8	37
67	Candida antarctica Lipase B Immobilized onto Chitin Conjugated with POSS® Compounds: Useful Tool for Rapeseed Oil Conversion. International Journal of Molecular Sciences, 2016, 17, 1581.	4.1	13
68	Sodium Copper Chlorophyllin Immobilization onto Hippospongia communis Marine Demosponge Skeleton and Its Antibacterial Activity. International Journal of Molecular Sciences, 2016, 17, 1564.	4.1	25
69	<i>Luffa cylindrica</i> sponges as a thermally and chemically stable support for <i>Aspergillus niger</i> lipase. Biotechnology Progress, 2016, 32, 657-665.	2.6	20
70	Marine sponge skeleton photosensitized by copper phthalocyanine: A catalyst for Rhodamine B degradation. Open Chemistry, 2016, 14, 243-254.	1.9	29
71	Saw-sedge Cladium mariscus as a functional low-cost adsorbent for effective removal of 2,4-dichlorophenoxyacetic acid from aqueous systems. Adsorption, 2016, 22, 517-529.	3.0	15
72	Anthocyanin dye conjugated with Hippospongia communis marine demosponge skeleton and its antiradical activity. Dyes and Pigments, 2016, 134, 541-552.	3.7	34

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73	Immobilization of <i>Amano Lipase A</i> onto Stöber silica surface: process characterization and kinetic studies. Open Chemistry, 2015, 13, .	1.9	30
74	Chitin-Lignin Material as a Novel Matrix for Enzyme Immobilization. Marine Drugs, 2015, 13, 2424-2446.	4.6	70
75	Adsorption of C.I. Natural Red 4 onto Spongin Skeleton of Marine Demosponge. Materials, 2015, 8, 96-116.	2.9	36
76	Kraft lignin/silica–AgNPs as a functional material with antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2015, 134, 220-228.	5.0	90
77	The influence of addition of a catalyst and chelating agent on the properties of titanium dioxide synthesized via the sol–gel method. Journal of Sol-Gel Science and Technology, 2015, 75, 264-278.	2.4	37
78	Synthesis of nanostructured chitin–hematite composites under extreme biomimetic conditions. RSC Advances, 2014, 4, 61743-61752.	3.6	53
79	Enzyme immobilization by adsorption: a review. Adsorption, 2014, 20, 801-821.	3.0	676
80	The sol–gel approach as a method of synthesis of xMgO·ySiO2 powder with defined physicochemical properties including crystalline structure. Journal of Sol-Gel Science and Technology, 2014, 71, 501-513.	2.4	27
81	Silica/lignosulfonate hybrid materials: Preparation and characterization. Open Chemistry, 2014, 12, 719-735.	1.9	27
82	Amano Lipase A grafting onto a silica surface. Biotechnologia, 2013, 1, 51-53.	0.9	0