Tahar Mechichi

List of Publications by Year
in descending order

88 papers	3,633 citations	126907 33 h-index	138484 58 g-index
92 all docs	92 docs citations	92 times ranked	4749 citing authors

#	Article	IF	Citations
1	Biodegradation of textile dyes by immobilized laccase from Coriolopsis gallica into Ca-alginate beads. International Biodeterioration and Biodegradation, 2014, 90, 71-78.	3.9	208
2	Laccase purification and characterization from Trametes trogii isolated in Tunisia: decolorization of textile dyes by the purified enzyme. Enzyme and Microbial Technology, 2006, 39, 141-148.	3.2	201
3	Phylogenetic and metabolic diversity of bacteria degrading aromatic compounds under denitrifying conditions, and description of Thauera phenylacetica sp. nov., Thauera aminoaromatica sp. nov., and Azoarcus buckelii sp. nov.. Archives of Microbiology, 2002, 178, 26-35.	2.2	197
4	Removal of organic load and phenolic compounds from olive mill wastewater by Fenton oxidation with zero-valent iron. Chemical Engineering Journal, 2009, 150, 391-395.	12.7	180
5	Decolourization and detoxification of textile industry wastewater by the laccase-mediator system. Journal of Hazardous Materials, 2010, 175, 802-808.	12.4	179
6	Structural, physicochemical and antioxidant properties of sodium alginate isolated from a Tunisian brown seaweed. International Journal of Biological Macromolecules, 2015, 72, 1358-1367.	7.5	176
7	Effect of Spirulina platensis fortification on physicochemical, textural, antioxidant and sensory properties of yogurt during fermentation and storage. LWT - Food Science and Technology, 2017, 84, 323-330.	5.2	143
8	Purification and characterization of a novel laccase from the ascomycete Trichoderma atroviride: Application on bioremediation of phenolic compounds. Process Biochemistry, 2010, 45, 507-513.	3.7	103
9	Alicycliphilus denitrificans gen. nov., sp. nov., a cyclohexanol-degrading, nitrate-reducing Î²-proteobacterium. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 147-152.	1.7	97
10	Degradation of bisphenol A by different fungal laccases and identification of its degradation products. International Biodeterioration and Biodegradation, 2016, 110, 181-188.	3.9	94
11	Remazol Brilliant Blue R decolourization by the laccase from Trametes trogii. Chemosphere, 2006, 64, 998-1005.	8.2	91
12	Co-composting of spent coffee ground with olive mill wastewater sludge and poultry manure and effect of Trametes versicolor inoculation on the compost maturity. Chemosphere, 2012, 88, 677-682.	8.2	87
13	Clostridium methoxybenzovorans sp. nov., a new aromatic o-demethylating homoacetogen from an olive mill wastewater treatment digester. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1201-1209.	1.7	81
14	Evaluating process imbalance of anaerobic digestion of olive mill wastewaters. Process Biochemistry, 2005, 40, 139-145.	3.7	74
15	Sawdust waste as a low-cost support-substrate for laccases production and adsorbent for azo dyes decolorization. Journal of Environmental Health Science & Engineering, 2016, 14, 1.	3.0	73
16	Potential utilization of agro-industrial wastewaters for lipid production by the oleaginous yeast Debaryomyces etchellsii. Journal of Cleaner Production, 2016, 133, 899-909.	9.3	68
17	Screening for Ligninolytic Enzyme Production by Diverse Fungi from Tunisia. World Journal of Microbiology and Biotechnology, 2005, 21, 1415-1423.	3.6	62
18	Purification and characterization of the laccase secreted by the white rot fungus Perenniporia tephropora and its role in the decolourization of synthetic dyes. Journal of Applied Microbiology, 2006, 102, 061120055200061-???.	3.1	62

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19	Zinc precipitation by heavy-metal tolerant sulfate-reducing bacteria enriched on phosphogypsum as a sulfate source. Minerals Engineering, 2007, 20, 173-178.	4.3	61
20	Isolation and characterization of a mesophilic heavy-metals-tolerant sulfate-reducing bacterium Desulfomicrobium sp. from an enrichment culture using phosphogypsum as a sulfate source. Journal of Hazardous Materials, 2007, 140, 264-270.	12.4	60
21	Malachite green decolourization and detoxification by the laccase from a newly isolated strain of Trametes sp.. International Biodeterioration and Biodegradation, 2009, 63, 600-606.	3.9	60
22	Purification and characterization of a fungal laccase from the ascomycete Thielavia sp. and its role in the decolorization of a recalcitrant dye. International Journal of Biological Macromolecules, 2018, 120, 1744-1751.	7.5	52
23	Decolorization of the metal textile dye Lanaset Grey G by immobilized white-rot fungi. Journal of Environmental Management, 2013, 129, 324-332.	7.8	51
24	Eubacterium aggreganssp. nov., a New Homoacetogenic Bacterium from Olive Mill Wastewater Treatment Digestor. Anaerobe, 1998, 4, 283-291.	2.1	49
25	Degradation of bisphenol A and acute toxicity reduction by different thermo-tolerant ascomycete strains isolated from arid soils. Ecotoxicology and Environmental Safety, 2018, 156, 87-96.	6.0	47
26	Biodegradation and toxicity reduction of nonylphenol, 4-tert-octylphenol and 2,4-dichlorophenol by the ascomycetous fungus Thielavia sp HJ22: Identification of fungal metabolites and proposal of a putative pathway. Science of the Total Environment, 2020, 708, 135129.	8.0	47
27	Evolution of the fatty fraction during co-composting of olive oil industry wastes with animal manure: Maturity assessment of the end product. Chemosphere, 2009, 75, 1382-1386.	8.2	43
28	On the evaluation of different saccharification schemes for enhanced bioethanol production from potato peels waste via a newly isolated yeast strain of Wickerhamomyces anomalus. Bioresource Technology, 2019, 289, 121614.	9.6	42
29	Application of response surface methodology to optimize decolourization of dyes by the laccase-mediator system. Journal of Environmental Management, 2012, 108, 84-91.	7.8	41
30	Sporobacterium olearium gen. nov., sp. nov., a new methanethiol-producing bacterium that degrades aromatic compounds, isolated from an olive mill wastewater treatment digester. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1741-1748.	1.7	38
31	Sulfate reduction from phosphogypsum using a mixed culture of sulfate-reducing bacteria. International Biodeterioration and Biodegradation, 2005, 56, 236-242.	3.9	37
32	Olive oil mill wastewaters: Phenolic content characterization during degradation by Coriolopsis gallica. Chemosphere, 2014, 113, 62-70.	8.2	35
33	Purification and biochemical characterization of a halotolerant Staphylococcus sp. extracellular lipase. International Journal of Biological Macromolecules, 2013, 57, 232-237.	7.5	34
34	Purification and biochemical characterization of a new alkali-stable laccase from Trametes sp. isolated in Tunisia: role of the enzyme in olive mill waste water treatment. World Journal of Microbiology and Biotechnology, 2013, 29, 2145-2155.	3.6	33
35	A sustainable use of low-cost raw substrates for biodiesel production by the oleaginous yeast Wickerhamomyces anomalus. 3 Biotech, 2017, 7, 268.	2.2	32
36	Evaluation of the biotechnological potential of a novel purified protease BS1 from Bacillus safensis S406 on the chitin extraction and detergent formulation. International Journal of Biological Macromolecules, 2017, 104, 739-747.	7.5	31

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37	Newly isolated yeasts from Tunisian microhabitats: Lipid accumulation and fatty acid composition. Engineering in Life Sciences, 2017, 17, 226-236.	3.6	30
38	Clostridium peptidivorans sp. nov., a peptide-fermenting bacterium from an olive mill wastewater treatment digester.. International Journal of Systematic and Evolutionary Microbiology, 2000, 50, 1259-1264.	1.7	28
39	Effect of natural mediators on the stability of Trametes trogii laccase during the decolourization of textile wastewaters. Journal of Microbiology, 2012, 50, 226-234.	2.8	27
40	Simultaneous cleanup of Reactive Black 5 and cadmium by a desert soil bacterium. Ecotoxicology and Environmental Safety, 2020, 190, 110103.	6.0	27
41	Characterization of a New Xylanolytic Bacterium, Clostridium xylanovorans sp. nov.. Systematic and Applied Microbiology, 1999, 22, 366-371.	2.8	26
42	Anaerobic degradation of methoxylated aromatic compounds by Clostridium methoxybenzovorans and a nitrate-reducing bacterium Thauera sp. strain Cin3,4. International Biodeterioration and Biodegradation, 2005, 56, 224-230.	3.9	26
43	Biosynthesis of single-cell biomass from olive mill wastewater by newly isolated yeasts. Environmental Science and Pollution Research, 2016, 23, 6783-6792.	5.3	26
44	Decolorization of the azo dye Acid Orange 51 by laccase produced in solid culture of a newly isolated Trametes trogii strain. 3 Biotech, 2013, 3, 115-125.	2.2	24
45	A halotolerant laccase from Chaetomium strain isolated from desert soil and its ability for dye decolourization. 3 Biotech, 2017, 7, 329.	2.2	24
46	Biodegradation and detoxification of bisphenol A by bacteria isolated from desert soils. 3 Biotech, 2019, 9, 228.	2.2	23
47	Effect of HBT on the stability of laccase during the decolourization of textile wastewaters. Journal of Chemical Technology and Biotechnology, 2009, 84, 1828-1833.	3.2	22
48	Purification and Biochemical Characterization of a Novel Alkaline (Phospho)lipase from a Newly Isolated Fusarium solani Strain. Applied Biochemistry and Biotechnology, 2012, 168, 2330-2343.	2.9	22
49	Lipid accumulation in the new oleaginous yeast Debaryomyces etchellsii correlates with ascosporogenesis. Biomass and Bioenergy, 2015, 80, 307-315.	5.7	22
50	Purification and Characterization of Two Low Molecular Weight Endoglucanases Produced by <I>Penicillium occitanis</I> Mutant Pol 6. Applied Biochemistry and Biotechnology, 2005, 125, 099-112.	2.9	21
51	Decolorization and detoxification of two textile industry effluents by the laccase/1-hydroxybenzotriazole system. Environmental Science and Pollution Research, 2013, 20, 5177-5187.	5.3	20
52	Screening of five marine-derived fungal strains for their potential to produce oxidases with laccase activities suitable for biotechnological applications. BMC Biotechnology, 2020, 20, 27.	3.3	20
53	Towards sustainable management of tomato pomace through the recovery of valuable compounds and sequential production of low-cost biosorbent. Environmental Science and Pollution Research, 2020, 27, 39402-39412.	5.3	20
54	Evaluation of the non-conventional yeast strain Wickerhamomyces anomalus (Pichia anomala) X19 for enhanced bioethanol production using date palm sap as renewable feedstock. Renewable Energy, 2020, 154, 71-81.	8.9	18

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55	Phylogenetic and metabolic diversity of Tunisian forest wood-degrading fungi: a wealth of novelties and opportunities for biotechnology. 3 Biotech, 2016, 6, 46.	2.2	17
56	Enhanced reduction of phenol content and toxicity in olive mill wastewaters by a newly isolated strain of Coriolopsis gallica. Environmental Science and Pollution Research, 2014, 21, 1746-1758.	5.3	16
57	High level of laccases production by Trametes trogii culture on olive mill wastewaterâ€based media, application in textile dye decolorization. Journal of Chemical Technology and Biotechnology, 2009, 84, 1527-1532.	3.2	14
58	Azo dyes decolourization by the laccase fromTrametes trogii. Journal of the Textile Institute, 2016, 107, 1478-1482.	1.9	12
59	Fatty acid biosynthesis during the life cycle of Debaryomyces etchellsii. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.8	12
60	Assessment of organic matter biodegradation and physico-chemical parameters variation during co-composting of lignocellulosic wastes with Trametes trogii inoculation. Environmental Engineering Research, 2019, 24, 670-679.	2.5	10
61	Treatment of olive mill wastewater through employing sequencing batch reactor: performance and microbial diversity assessment. 3 Biotech, 2018, 8, 481.	2.2	9
62	Modelling of Reactive Black 5 decolourization in the presence of heavy metals by the newly isolated Pseudomonas aeruginosa strain Gb30. Journal of Applied Microbiology, 2019, 126, 1761-1771.	3.1	9
63	Efficient bioethanol production from date palm (Phoenix dactylifera L.) sap by a newly isolated Saccharomyces cerevisiae X19G2. Process Biochemistry, 2021, 105, 102-112.	3.7	9
64	A new approach for detoxification of landfill leachate using Trametes trogii. Environmental Engineering Research, 2019, 24, 144-149.	2.5	9
65	Microbial diversity in tanning wastewaters treatment reactors. Environmental Progress and Sustainable Energy, 2015, 34, 401-410.	2.3	8
66	Prickly pear cactus cladodes powder of Opuntia ficus indica as a cost effective biosorbent for dyes removal from aqueous solutions. 3 Biotech, 2018, 8, 478.	2.2	8
67	A Comparative Study of Various Pretreatment Approaches for Bio-Ethanol Production from Willow Sawdust, Using Co-Cultures and Mono-Cultures of Different Yeast Strains. Molecules, 2022, 27, 1344.	3.8	8
68	Fast activated charcoal prepurification of Fusarium solani Î²-glucosidase for an efficient oleuropein bioconversion. Preparative Biochemistry and Biotechnology, 2017, 47, 185-191.	1.9	7
69	Oleaginous Microorganisms for Simultaneous Biodiesel Production and Wastewater Treatment. , 2019, , 153-174.		7
70	Porous heat-treated fungal biomass: preparation, characterization and application for removal of textile dyes from aqueous solutions. Journal of Porous Materials, 2019, 26, 1475-1488.	2.6	7
71	Characterization of the CAZy Repertoire from the Marine-Derived Fungus Stemphylium lucomagnoense in Relation to Saline Conditions. Marine Drugs, 2020, 18, 461.	4.6	7
72	Enhanced decolourization of the azo dye Sirius rose BB by laccaseâ€“HBT system. 3 Biotech, 2012, 2, 149-157.	2.2	6

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73	Combined biological processing and microfiltration in the treatment of unhairing wastewater. Environmental Science and Pollution Research, 2012, 19, 226-234.	5.3	6
74	Soil Responses to High Olive Mill Wastewater Spreading. Agronomy, 2022, 12, 972.	3.0	6
75	Optimization of the Decolorization of the Reactive Black 5 by a Laccase-like Active Cell-Free Supernatant from Coriolopsis gallica. Microorganisms, 2022, 10, 1137.	3.6	6
76	Kinetic Properties of a Novel Fusarium solani (phospho)lipase: A Monolayer Study. Chirality, 2013, 25, 35-38.	2.6	5
77	Assessment of Coriolopsis gallica-treated olive mill wastewater phytotoxicity on tomato plants. Environmental Science and Pollution Research, 2016, 23, 15370-15380.	5.3	5
78	Removal of Acid Orange 51 by micro zero-valent iron under different operational conditions and evaluation of toxicity. Environmental Science and Pollution Research, 2019, 26, 18392-18402.	5.3	5
79	Exploring the Diversity of Fungal DyPs in Mangrove Soils to Produce and Characterize Novel Biocatalysts. Journal of Fungi (Basel, Switzerland), 2021, 7, 321.	3.5	5
80	Investigation of endogenous biomass efficiency in the treatment of unhairing effluents from the tanning industry. Environmental Technology (United Kingdom), 2009, 30, 911-919.	2.2	4
81	Treatment of unhairing effluents by activated sludge system. Environmental Progress and Sustainable Energy, 2011, 30, 337-346.	2.3	4
82	Unhairing wastewater treatment byBacillus pumilusandBacillus cereus. Desalination and Water Treatment, 2015, 54, 683-689.	1.0	4
83	Enzyme Properties of a Laccase Obtained from the Transcriptome of the Marine-Derived Fungus Stemphylium lucomagnoense. International Journal of Molecular Sciences, 2020, 21, 8402.	4.1	3
84	Effect of alkaline/hydrogen peroxide pretreatment on date palm fibers: induced chemical and structural changes and assessment of ethanol production capacity via Pichia anomala and Pichia stipitis. Biomass Conversion and Biorefinery, 2022, 12, 4473-4489.	4.6	3
85	Tolerance Limits of Barley, Peas and Lettuce Towards Composts Rich in Phenolic Compounds and Lipid Substances. Communications in Soil Science and Plant Analysis, 2018, 49, 1418-1428.	1.4	2
86	Comparative Evaluation of the Capacity of Commercial and Autochthonous Saccharomyces cerevisiae Strains to Remove Ochratoxin A from Natural and Synthetic Grape Juices. Toxins, 2022, 14, 465.	3.4	2
87	Biodegradation of C20 carbon clusters from Diesel Fuel by Coriolopsis gallica: optimization, metabolic pathway, phytotoxicity. 3 Biotech, 2021, 11, 214.	2.2	1
88	Optimization of reactive black 5 decolorization by the newly isolated Saccharomyces cerevisiae X19G2 using response-surface methodology. 3 Biotech, 2022, 12, .	2.2	1