

Susana Rodriguez-Couto

List of Publications by Year in descending order

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114
papers

6,815
citations

66343

42
h-index

62596

80
g-index

121
all docs

121
docs citations

121
times ranked

6870
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of FeNi ₃ /SiO ₂ /CuS magnetic nano-composite as a novel adsorbent for Congo Red dye removal. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 2342-2362.	3.3	22
2	Can polymer-degrading microorganisms solve the bottleneck of plastics' environmental challenges?. <i>Chemosphere</i> , 2022, 294, 133709.	8.2	28
3	Socio-Environmental Determinants and Human Health Exposures in Arid and Semi-Arid Zones of Iran' Narrative Review. <i>Environmental Health Insights</i> , 2022, 16, 117863022210897.	1.7	2
4	Smart nanohybrid constructs: concept and designing for environmental remediation. <i>Chemosphere</i> , 2022, 301, 134616.	8.2	1
5	High BPA removal by immobilized crude laccase in a batch fluidized bed bioreactor. <i>Biochemical Engineering Journal</i> , 2022, 184, 108489.	3.6	10
6	Biophotodegradation of pollutants from wastewater. , 2021, , 269-281.		0
7	Effect of carbon nanomaterials on cell toxicity, biomass production, nutritional and active compound accumulation in plants. <i>Environmental Technology and Innovation</i> , 2021, 21, 101323.	6.1	32
8	Characterization of <i>Penicillium crustosum</i> l-asparaginase and its acrylamide alleviation efficiency in roasted coffee beans at non-cytotoxic levels. <i>Archives of Microbiology</i> , 2021, 203, 2625-2637.	2.2	16
9	Robust nanocarriers to engineer nanobiocatalysts for bioprocessing applications. <i>Advances in Colloid and Interface Science</i> , 2021, 293, 102438.	14.7	34
10	Preparation, characterization, and application of modified carbonized lignin as an anode for sustainable microbial fuel cell. <i>Chemical Engineering Research and Design</i> , 2021, 155, 49-60.	5.6	30
11	H ₂ SO ₄ -modified <i>Aloe vera</i> leaf shells for the removal of <i>p</i> -chlorophenol and methylene blue from aqueous environment. <i>Toxin Reviews</i> , 2020, 39, 57-67.	3.4	9
12	Preparation of activated carbon@ZnO composite and its application as a novel catalyst in catalytic ozonation process for metronidazole degradation. <i>Advanced Powder Technology</i> , 2020, 31, 875-885.	4.1	85
13	Development and modification of materials to build cost-effective anodes for microbial fuel cells (MFCs): An overview. <i>Biochemical Engineering Journal</i> , 2020, 164, 107779.	3.6	180
14	Praseodymium-doped cadmium tungstate (CdWO ₄) nanoparticles for dye degradation with sonocatalytic process. <i>Polyhedron</i> , 2020, 190, 114792.	2.2	45
15	Enzymatic potential for the valorization of agro-industrial by-products. <i>Biotechnology Letters</i> , 2020, 42, 1799-1827.	2.2	33
16	A comprehensive study on the application of FeNi ₃ @SiO ₂ @ZnO magnetic nanocomposites as a novel photo-catalyst for degradation of tamoxifen in the presence of simulated sunlight. <i>Environmental Pollution</i> , 2020, 261, 114127.	7.5	51
17	New Type Biomembrane: Transport and Biodegradation of Reactive Textile Dye. <i>ACS Omega</i> , 2020, 5, 9813-9819.	3.5	14
18	Strategies of Biotechnological Innovations Using <i>Trichoderma</i> . <i>Soil Biology</i> , 2020, , 325-350.	0.8	1

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19	Synthesis and characterization of nanoparticles and composites as bactericides. <i>Journal of Microbiological Methods</i> , 2019, 167, 105736.	1.6	9
20	Current Trends in the Production of Ligninolytic Enzymes. , 2019, , 67-87.		1
21	Evaluation of antimicrobial activity of <i>Terfezia arenaria</i> extracts collected from Saharan desert against bacteria and filamentous fungi. <i>3 Biotech</i> , 2019, 9, 281.	2.2	4
22	Editorial: Microbial Secondary Metabolites: Recent Developments and Technological Challenges. <i>Frontiers in Microbiology</i> , 2019, 10, 914.	3.5	57
23	Porous heat-treated fungal biomass: preparation, characterization and application for removal of textile dyes from aqueous solutions. <i>Journal of Porous Materials</i> , 2019, 26, 1475-1488.	2.6	7
24	Fungal Laccase: A Versatile Enzyme for Biotechnological Applications. <i>Fungal Biology</i> , 2019, , 429-457.	0.6	14
25	Desalination and power generation of caspian sea by applying new designed microbial desalination cells in batch operation mode. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13205.	2.3	9
26	Rapid and high purification of olive mill wastewater (OMV) with the combination electrocoagulation-catalytic sonoperoxone processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 47-53.	5.3	17
27	Do disinfection byproducts in drinking water have an effect on human cancer risk worldwide? A meta-analysis. <i>Environmental Quality Management</i> , 2019, 29, 105-119.	1.9	9
28	Antifungal and anti-mycotoxin efficacy of biogenic silver nanoparticles produced by <i>Fusarium chlamydosporum</i> and <i>Penicillium chrysogenum</i> at non-cytotoxic doses. <i>Chemosphere</i> , 2019, 218, 477-486.	8.2	61
29	A promising laccase immobilization approach for Bisphenol A removal from aqueous solutions. <i>Bioresource Technology</i> , 2019, 271, 360-367.	9.6	192
30	Green Nanotechnology for Biofuel Production. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 73-82.	0.3	10
31	Removal efficiency of nitrate, phosphate, fecal and total coliforms by horizontal subsurface flow-constructed wetland from domestic wastewater. <i>Environmental Health Engineering and Management</i> , 2019, 6, 105-111.	0.7	2
32	Solid-State Fermentation for Laccases Production and Their Applications. , 2018, , 211-234.		14
33	Applications of fungal cellulases in biofuel production: Advances and limitations. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2379-2386.	16.4	170
34	Effect of Urmia Lake's drying on groundwater corrosion and scaling potential in the northwest of Iran (Case study: Spring and summer, 2015). <i>Environmental Quality Management</i> , 2018, 27, 65-72.	1.9	1
35	Isolation of <i>Pseudomonas fluorescens</i> species highly resistant to pentachlorobenzene. <i>Folia Microbiologica</i> , 2017, 62, 325-334.	2.3	1
36	Discoloration of the azo dye Congo Red by manganese-dependent peroxidase from <i>Pleurotus sajor caju</i> . <i>Applied Biochemistry and Microbiology</i> , 2017, 53, 222-229.	0.9	14

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37	Isolation and Characterization of Actinobacteria from Algerian Sahara Soils with Antimicrobial Activities. <i>International Journal of Molecular and Cellular Medicine</i> , 2017, 6, 109-120.	1.1	25
38	Industrial and environmental applications of white-rot fungi. <i>Mycosphere</i> , 2017, 8, 456-466.	6.1	56
39	Degradation of azinphos-methyl and chlorpyrifos from aqueous solutions by ultrasound treatment. <i>Journal of Molecular Liquids</i> , 2016, 221, 1237-1242.	4.9	51
40	Potential of White-Rot Fungi to Treat Xenobiotic-Containing Wastewater. <i>Fungal Biology</i> , 2016, , 91-113.	0.6	2
41	Sawdust waste as a low-cost support-substrate for laccases production and adsorbent for azo dyes decolorization. <i>Journal of Environmental Health Science & Engineering</i> , 2016, 14, 1.	3.0	73
42	Assessment of <i>Corioloopsis gallica</i> -treated olive mill wastewater phytotoxicity on tomato plants. <i>Environmental Science and Pollution Research</i> , 2016, 23, 15370-15380.	5.3	5
43	Adsorption of ethidium bromide (EtBr) from aqueous solutions by natural pumice and aluminium-coated pumice. <i>Journal of Molecular Liquids</i> , 2016, 213, 41-47.	4.9	17
44	A modeling study by artificial neural network on ethidium bromide adsorption optimization using natural pumice and iron-coated pumice. <i>Desalination and Water Treatment</i> , 2016, 57, 13472-13483.	1.0	8
45	Biodegradation of bisphenol A by the newly-isolated <i>Enterobacter gergoviae</i> strain BYK-7 enhanced using genetic manipulation. <i>RSC Advances</i> , 2015, 5, 29563-29572.	3.6	27
46	Design of Stable and Powerful Nanobiocatalysts, Based on Enzyme Laccase Immobilized on Self-Assembled 3D Graphene/Polymer Composite Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14104-14112.	8.0	55
47	Removal of noxious dye "Acid Orange 7 from aqueous solution using natural pumice and Fe-coated pumice stone. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 124-131.	5.8	47
48	Kinetics and thermodynamics of enhanced adsorption of the dye AR 18 using activated carbons prepared from walnut and poplar woods. <i>Journal of Molecular Liquids</i> , 2015, 208, 99-105.	4.9	120
49	Reversible covalent immobilization of <i>Trametes villosa</i> laccase onto thiosulfinate-agarose: An insoluble biocatalyst with potential for decoloring recalcitrant dyes. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 502-513.	3.1	10
50	Degradation of Azo Dyes by White-Rot Fungi. <i>Environmental Science and Engineering</i> , 2015, , 315-331.	0.2	2
51	Decolouration of industrial metal-complex dyes in successive batches by active cultures of <i>Trametes pubescens</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2014, 4, 156-160.	4.4	12
52	Biodegradation of textile dyes by immobilized laccase from <i>Corioloopsis gallica</i> into Ca-alginate beads. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 71-78.	3.9	208
53	Reduced graphene oxide hydrogels and xerogels provide efficient platforms for immobilization and laccase production by <i>Trametes pubescens</i> . <i>Biotechnology Journal</i> , 2014, 9, 578-584.	3.5	16
54	Enhancing laccase production by a newly-isolated strain of <i>Pycnoporus sanguineus</i> with high potential for dye decolouration. <i>RSC Advances</i> , 2014, 4, 34096.	3.6	16

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55	Uptake of Reactive Black 5 by pumice and walnut activated carbon: Chemistry and adsorption mechanisms. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2939-2947.	5.8	142
56	Efficiency of <i>Pleurotus florida</i> Laccase on Decolorization and Detoxification of the Reactive Dye Remazol Brilliant Blue R (RBBR) under Optimized Conditions. <i>Clean - Soil, Air, Water</i> , 2013, 41, 665-672.	1.1	26
57	Semi-solid-state fermentation: A promising alternative for neomycin production by the actinomycete <i>Streptomyces fradiae</i> . <i>Journal of Biotechnology</i> , 2013, 165, 195-200.	3.8	15
58	Decolorization and detoxification of two textile industry effluents by the laccase/1-hydroxybenzotriazole system. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5177-5187.	5.3	20
59	Decolorization of the metal textile dye Lanaset Grey G by immobilized white-rot fungi. <i>Journal of Environmental Management</i> , 2013, 129, 324-332.	7.8	51
60	A promising inert support for laccase production and decolouration of textile wastewater by the white-rot fungus <i>Trametes pubescens</i> . <i>Journal of Hazardous Materials</i> , 2012, 233-234, 158-162.	12.4	34
61	The Determination of Assay for Laccase of <i>Bacillus subtilis</i> WPI with Two Classes of Chemical Compounds as Substrates. <i>Indian Journal of Microbiology</i> , 2012, 52, 701-707.	2.7	65
62	Adsorptive Removal of Pentachlorophenol by <i>Anthracozyllum discolor</i> in a Fixed-Bed Column Reactor. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2463-2472.	2.4	12
63	Production of a Biopolymer at Reactor Scale: A Laboratory Experience. <i>Journal of Chemical Education</i> , 2011, 88, 1175-1177.	2.3	2
64	Morphology and laccase production of white-rot fungi grown on wheat bran flakes under semi-solid-state fermentation conditions. <i>FEMS Microbiology Letters</i> , 2011, 318, 27-34.	1.8	33
65	Cost analysis in laccase production. <i>Journal of Environmental Management</i> , 2011, 92, 2907-2912.	7.8	94
66	Production of laccase and decolouration of the textile dye Remazol Brilliant Blue R in temporary immersion bioreactors. <i>Journal of Hazardous Materials</i> , 2011, 194, 297-302.	12.4	34
67	Biodegradation pathway and detoxification of the diazo dye Reactive Black 5 by <i>Phanerochaete chrysosporium</i> . <i>Bioresource Technology</i> , 2011, 102, 10359-10362.	9.6	70
68	Environmental, scanning electron and optical microscope image analysis software for determining volume and occupied area of solid-state fermentation fungal cultures. <i>Biotechnology Journal</i> , 2011, 6, 45-55.	3.5	8
69	Decolorization of simulated textile dye baths by crude laccases from <i>Trametes hirsuta</i> and <i>Cerrena unicolor</i> . <i>Engineering in Life Sciences</i> , 2010, 10, 242-247.	3.6	32
70	Transformation pathway of Remazol Brilliant Blue R by immobilised laccase. <i>Bioresource Technology</i> , 2010, 101, 8509-8514.	9.6	125
71	Decolouration of azo dyes by <i>Phanerochaete chrysosporium</i> immobilised into alginate beads. <i>Environmental Science and Pollution Research</i> , 2010, 17, 145-153.	5.3	52
72	Biodegradation of a simulated textile effluent by immobilised-coated laccase in laboratory-scale reactors. <i>Applied Catalysis A: General</i> , 2010, 373, 147-153.	4.3	77

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73	Uses of Laccases in the Food Industry. <i>Enzyme Research</i> , 2010, 2010, 1-8.	1.8	152
74	Dye removal by immobilised fungi. <i>Biotechnology Advances</i> , 2009, 27, 227-235.	11.7	379
75	Using biotechnology in the laboratory: Using an immobilized laccase reactor system to learn about wastewater treatment. <i>Biochemistry and Molecular Biology Education</i> , 2009, 37, 182-185.	1.2	0
76	Simultaneous production of laccase and decolouration of the diazo dye Reactive Black 5 in a fixed-bed bioreactor. <i>Journal of Hazardous Materials</i> , 2009, 164, 296-300.	12.4	46
77	Assessment of the joint effect of laccase and cellobiose dehydrogenase on the decolouration of different synthetic dyes. <i>Journal of Hazardous Materials</i> , 2009, 169, 176-181.	12.4	32
78	Application of response surface methodological approach to optimise Reactive Black 5 decolouration by crude laccase from <i>Trametes pubescens</i> . <i>Journal of Hazardous Materials</i> , 2009, 169, 691-696.	12.4	74
79	Removal of synthetic dyes by an eco-friendly strategy. <i>Engineering in Life Sciences</i> , 2009, 9, 116-123.	3.6	86
80	Enzymatic Biotransformation of Synthetic Dyes. <i>Current Drug Metabolism</i> , 2009, 10, 1048-1054.	1.2	15
81	Mandarin peelings: The best carbon source to produce laccase by static cultures of <i>Trametes pubescens</i> . <i>Chemosphere</i> , 2007, 67, 1677-1680.	8.2	25
82	Poly-R-478 and ABTS oxidation by the white-rot fungus <i>Trametes pubescens</i> on agar plates. <i>Journal of Biotechnology</i> , 2007, 131, S229.	3.8	1
83	The effect of violuric acid on the decolourization of recalcitrant dyes by laccase from <i>Trametes hirsuta</i> . <i>Dyes and Pigments</i> , 2007, 74, 123-126.	3.7	20
84	Banana skin: A novel waste for laccase production by <i>Trametes pubescens</i> under solid-state conditions. Application to synthetic dye decolouration. <i>Dyes and Pigments</i> , 2007, 75, 32-37.	3.7	101
85	Increased laccase production by <i>Trametes hirsuta</i> grown on ground orange peelings. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1286-1290.	3.2	87
86	Coating of immobilised laccase for stability enhancement: A novel approach. <i>Applied Catalysis A: General</i> , 2007, 329, 156-160.	4.3	37
87	Enzymatic synthesis of Tinuvin. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1748-1752.	3.2	15
88	Sunflower seed shells: A novel and effective low-cost adsorbent for the removal of the diazo dye Reactive Black 5 from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2007, 147, 900-905.	12.4	147
89	Decolouration of industrial azo dyes by crude laccase from <i>Trametes hirsuta</i> . <i>Journal of Hazardous Materials</i> , 2007, 148, 768-770.	12.4	58
90	Laccase production at reactor scale by filamentous fungi. <i>Biotechnology Advances</i> , 2007, 25, 558-569.	11.7	176

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91	Laccase from <i>Trametes hirsuta</i> Grown on Paper Cuttings: Application to Synthetic Dye Decolorization at Different pH Values. <i>Engineering in Life Sciences</i> , 2007, 7, 229-234.	3.6	8
92	Inhibitors of Laccases: A Review. <i>Current Enzyme Inhibition</i> , 2006, 2, 343-352.	0.4	30
93	Laccase activity from the fungus <i>Trametes hirsuta</i> using an air-lift bioreactor. <i>Letters in Applied Microbiology</i> , 2006, 42, 060316073800005.	2.2	49
94	Effect of two wastes from groundnut processing on laccase production and dye decolourisation ability. <i>Journal of Food Engineering</i> , 2006, 73, 388-393.	5.2	24
95	Utilisation of grape seeds for laccase production in solid-state fermentors. <i>Journal of Food Engineering</i> , 2006, 74, 263-267.	5.2	66
96	Application of solid-state fermentation to food industry – A review. <i>Journal of Food Engineering</i> , 2006, 76, 291-302.	5.2	535
97	Optimum stability conditions of pH and temperature for ligninase and manganese-dependent peroxidase from <i>Phanerochaete chrysosporium</i> . Application to in vitro decolorization of Poly R-478 by MnP. <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 607-612.	3.6	31
98	Industrial and biotechnological applications of laccases: A review. <i>Biotechnology Advances</i> , 2006, 24, 500-513.	11.7	1,119
99	Application of solid-state fermentation to ligninolytic enzyme production. <i>Biochemical Engineering Journal</i> , 2005, 22, 211-219.	3.6	196
100	Reutilisation of food processing wastes for production of relevant metabolites: application to laccase production by <i>Trametes hirsuta</i> . <i>Journal of Food Engineering</i> , 2005, 66, 419-423.	5.2	48
101	Chestnut shell and barley bran as potential substrates for laccase production by <i>Coriopsis rigida</i> under solid-state conditions. <i>Journal of Food Engineering</i> , 2005, 68, 315-319.	5.2	63
102	Coconut flesh: a novel raw material for laccase production by <i>Trametes hirsuta</i> under solid-state conditions. <i>Journal of Food Engineering</i> , 2005, 71, 208-213.	5.2	35
103	Dye decolorization by <i>Trametes hirsuta</i> immobilized into alginate beads. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 405-409.	3.6	64
104	Production of Laccase by <i>Trametes hirsuta</i> Grown in an Immersion Bioreactor and its Application in the Decolorization of Dyes from a Leather Factory. <i>Engineering in Life Sciences</i> , 2004, 4, 233-238.	3.6	46
105	Exploitation of a waste from the brewing industry for laccase production by two <i>Trametes</i> species. <i>Journal of Food Engineering</i> , 2004, 64, 423-428.	5.2	52
106	Investigation of several bioreactor configurations for laccase production by <i>Trametes versicolor</i> operating in solid-state conditions. <i>Biochemical Engineering Journal</i> , 2003, 15, 21-26.	3.6	71
107	Production of manganese-dependent peroxidase in a new solid-state bioreactor by <i>Phanerochaete chrysosporium</i> grown on wood shavings. Application to the decolorization of synthetic dyes. <i>Folia Microbiologica</i> , 2002, 47, 417-421.	2.3	22
108	Utilisation of lignocellulosic wastes for lignin peroxidase production by semi-solid-state cultures of <i>Phanerochaete chrysosporium</i> . <i>Biodegradation</i> , 2001, 12, 283-289.	3.0	29

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109	In vivodecolourization of the polymeric dye poly R-478 by corncob cultures ofPhanerochaete chrysosporium. Acta Biotechnologica, 2000, 20, 31-38.	0.9	14
110	Ligninolytic enzymes from corncob cultures ofPhanerochaete chrysosporiumunder semi-solid-state conditions. Acta Biotechnologica, 1999, 19, 17-25.	0.9	21
111	Corrigendum to "Surfactant modified kaolinite (MK-BZK) as an adsorbent for the removal of diazinon from aqueous solutions" published in vol. 196, August 2020, pp. 137-145 (doi: 10.5004/dwt.2020.25922). , 0, 201, 463-463.		1
112	Surfactant modified kaolinite (MK-BZK) as an adsorbent for the removal of diazinon from aqueous solutions. , 0, 195, 137-145.		0
113	Synthesis and characterisation of FeNi ₃ @SiO ₂ @TiO ₂ nano-composite and its application as a catalyst in a photochemical oxidation process to decompose tetracycline. , 0, 195, 435-449.		6
114	Synthesis and characterization of FeNi ₃ nanoparticles and their application as catalysts for penicillin G degradation in a Fenton-like reaction. , 0, 181, 391-398.		3