Elisabet Aranda

List of Publications by Year
in descending order

75 papers	2,290 citations	147566 31 h-index	233125 45 g-index
78 all docs	78 docs citations	78 times ranked	2432 citing authors

#	Article	IF	Citations
1	Potential of non-ligninolytic fungi in bioremediation of chlorinated and polycyclic aromatic hydrocarbons. New Biotechnology, 2015, 32, 620-628.	2.4	138
2	Overview on the Biochemical Potential of Filamentous Fungi to Degrade Pharmaceutical Compounds. Frontiers in Microbiology, 2017, 8, 1792.	1.5	129
3	Promising approaches towards biotransformation of polycyclic aromatic hydrocarbons with Ascomycota fungi. Current Opinion in Biotechnology, 2016, 38, 1-8.	3.3	110
4	A comparative study to evaluate natural attenuation, mycoaugmentation, phytoremediation, and microbial-assisted phytoremediation strategies for the bioremediation of an aged PAH-polluted soil. Ecotoxicology and Environmental Safety, 2018, 147, 165-174.	2.9	97
5	Conversion of dibenzothiophene by the mushrooms Agrocybe aegerita and Coprinellus radians and their extracellular peroxygenases. Applied Microbiology and Biotechnology, 2009, 82, 1057-1066.	1.7	77
6	Conversion of polycyclic aromatic hydrocarbons, methyl naphthalenes and dibenzofuran by two fungal peroxygenases. Biodegradation, 2010, 21, 267-281.	1.5	73
7	Role of arbuscular mycorrhizal fungus Rhizophagus custos in the dissipation of PAHs under root-organ culture conditions. Environmental Pollution, 2013, 181, 182-189.	3.7	72
8	Isolation of Ascomycota fungi with capability to transform PAHs: Insights into the biodegradation mechanisms of Penicillium oxalicum. International Biodeterioration and Biodegradation, 2017, 122, 141-150.	1.9	64
9	Community structure, population dynamics and diversity of fungi in a full-scale membrane bioreactor (MBR) for urban wastewater treatment. Water Research, 2016, 105, 507-519.	5.3	60
10	Regioselective preparation of 5-hydroxypropranolol and 4â€²-hydroxydiclofenac with a fungal peroxygenase. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3085-3087.	1.0	59
11	Pharmaceutical Pollution in Aquatic Environments: A Concise Review of Environmental Impacts and Bioremediation Systems. Frontiers in Microbiology, 2022, 13, 869332.	1.5	58
12	Phenolic removal of olive-mill dry residues by laccase activity of white-rot fungi and its impact on tomato plant growth. International Biodeterioration and Biodegradation, 2006, 58, 176-179.	1.9	57
13	First demonstration that ascomycetous halophilic fungi (Aspergillus sydowii and Aspergillus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Technology, 2019, 279, 287-296.	4.8	53
14	Performance and bacterial community structure of a granular autotrophic nitrogen removal bioreactor amended with high antibiotic concentrations. Chemical Engineering Journal, 2017, 325, 257-269.	6.6	52
15	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.	3.6	52
16	Phenol oxidation by DyP-type peroxidases in comparison to fungal and plant peroxidases. Journal of Molecular Catalysis B: Enzymatic, 2014, 103, 41-46.	1.8	51
17	Contribution of the saprobic fungi Trametes versicolor and Trichoderma harzianum and the arbuscular mycorrhizal fungi Glomus deserticola and G. claroideum to arsenic tolerance of Eucalyptus globulus. Bioresource Technology, 2009, 100, 6250-6257.	4.8	50
18	Defence response of tomato seedlings to oxidative stress induced by phenolic compounds from dry olive mill residue. Chemosphere, 2012, 89, 708-716.	4.2	49

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19	Advanced oxidation of benzene, toluene, ethylbenzene and xylene isomers (BTEX) by Trametes versicolor. Journal of Hazardous Materials, 2010, 181, 181-186.	6.5	48
20	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.	2.9	47
21	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.	3.9	47
22	Assessment of bacterial and fungal communities in a full-scale thermophilic sewage sludge composting pile under a semipermeable cover. Bioresource Technology, 2020, 298, 122550.	4.8	46
23	Evaluation of diclofenac biodegradation by the ascomycete fungus Penicillium oxalicum at flask and bench bioreactor scales. Science of the Total Environment, 2019, 662, 607-614.	3.9	45
24	Transcriptomic analysis of polyaromatic hydrocarbon degradation by the halophilic fungus <i>Aspergillus sydowii</i> at hypersaline conditions. Environmental Microbiology, 2021, 23, 3435-3459.	1.8	41
25	Improvement by soil yeasts of arbuscular mycorrhizal symbiosis of soybean (Glycine max) colonized by Glomus mosseae. Mycorrhiza, 2004, 14, 229-234.	1.3	40
26	Saprobic fungi decrease plant toxicity caused by olive mill residues. Applied Soil Ecology, 2004, 26, 149-156.	2.1	38
27	Approaches in Bioremediation. Nanotechnology in the Life Sciences, 2018, , .	0.4	38
28	Exploring the potential of fungi isolated from PAH-polluted soil as a source of xenobiotics-degrading fungi. Environmental Science and Pollution Research, 2016, 23, 20985-20996.	2.7	37
29	Sewage sludge composting under semi-permeable film at full-scale: Evaluation of odour emissions and relationships between microbiological activities and physico-chemical variables. Environmental Research, 2019, 177, 108624.	3.7	33
30	Arbuscular mycorrhizal fungi alleviate oxidative stress induced by ADOR and enhance antioxidant responses of tomato plants. Journal of Plant Physiology, 2014, 171, 421-428.	1.6	32
31	Chemical characterization and effects on Lepidium sativum of the native and bioremediated components of dry olive mill residue. Chemosphere, 2007, 69, 229-239.	4.2	31
32	Effect of semi-permeable cover system on the bacterial diversity during sewage sludge composting. Journal of Environmental Management, 2018, 215, 57-67.	3.8	30
33	Solid state fermentation of olive mill residues by wood- and dung-dwelling Agaricomycetes: Effects on peroxidase production, biomass development and phenol phytotoxicity. Chemosphere, 2013, 93, 1406-1412.	4.2	29
34	Induction of hydroxyl radical production in Trametes versicolor to degrade recalcitrant chlorinated hydrocarbons. Bioresource Technology, 2009, 100, 5757-5762.	4.8	25
35	Potential for CRISPR Genetic Engineering to Increase Xenobiotic Degradation Capacities in Model Fungi. Nanotechnology in the Life Sciences, 2018, , 61-78.	0.4	25
36	Assessment of the diversity and abundance of the total and active fungal population and its correlation with humification during two-phase olive mill waste (â€˜â€˜alperujoâ€) composting. Bioresource Technology, 2020, 295, 122267.	4.8	19

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37	Tracking gene expression, metabolic profiles, and biochemical analysis in the halotolerant basidiomycetous yeast Rhodotorula mucilaginosa EXF-1630 during benzo[a]pyrene and phenanthrene biodegradation under hypersaline conditions. Environmental Pollution, 2021, 271, 116358.	3.7	19
38	Contribution of hydrolytic enzymes produced by saprophytic fungi to the decrease in plant toxicity caused by water-soluble substances in olive mill dry residue. Applied Microbiology and Biotechnology, 2004, 64, 132-135.	1.7	18
39	Saprobe fungi decreased the sensitivity to the toxic effect of dry olive mill residue on arbuscular mycorrhizal plants. Chemosphere, 2008, 70, 1383-1389.	4.2	18
40	New Insights of Ustilago maydis as Yeast Model for Genetic and Biotechnological Research: A Review. Current Microbiology, 2019, 76, 917-926.	1.0	18
41	Involvement of the metabolically active bacteria in the organic matter degradation during olive mill waste composting. Science of the Total Environment, 2021, 789, 147975.	3.9	18
42	Interactions of Trametes versicolor, Coriolopsis rigida and the arbuscular mycorrhizal fungus Glomus deserticola on the copper tolerance of Eucalyptus globulus. Chemosphere, 2009, 77, 273-278.	4.2	17
43	<i>Schizophyllum commune</i>: An unexploited source for lignocellulose degrading enzymes. MicrobiologyOpen, 2018, 7, e00637.	1.2	16
44	Enzymatic Potential of Bacteria and Fungi Isolates from the Sewage Sludge Composting Process. Applied Sciences (Switzerland), 2020, 10, 7763.	1.3	16
45	The effects of the arbuscular mycorrhizal fungusGlomus deserticola on growth of tomato plants grown in the presence of olive mill residues modified by treatment with saprophytic fungi. Symbiosis, 2009, 47, 133-140.	1.2	15
46	Differences in the secretion pattern of oxidoreductases from Bjerkandera adusta induced by a phenolic olive mill extract. Fungal Genetics and Biology, 2014, 72, 99-105.	0.9	15
47	Anthracene drives sub-cellular proteome-wide alterations in the degradative system of Penicillium oxalicum. Ecotoxicology and Environmental Safety, 2018, 159, 127-135.	2.9	14
48	Penicillium oxalicum XD-3.1 removes pharmaceutical compounds from hospital wastewater and outcompetes native bacterial and fungal communities in fluidised batch bioreactors. International Biodeterioration and Biodegradation, 2021, 158, 105179.	1.9	14
49	Biostimulation of crude oil-polluted soils: influence of initial physicochemical and biological characteristics of soil. International Journal of Environmental Science and Technology, 2019, 16, 4925-4934.	1.8	13
50	Reusing ethyl acetate and aqueous exhausted fractions of dry olive mill residue by saprobe fungi. Chemosphere, 2007, 66, 67-74.	4.2	11
51	Genome and secretome of Chondrostereum purpureum correspond to saprotrophic and phytopathogenic life styles. PLoS ONE, 2019, 14, e0212769.	1.1	11
52	Evaluation of the Potential of Sewage Sludge Mycobiome to Degrade High Diclofenac and Bisphenol-A Concentrations. Toxics, 2021, 9, 115.	1.6	11
53	Effect of a New Thermal Treatment in Combination with Saprobic Fungal Incubation on the Phytotoxicity Level of Alperujo. Journal of Agricultural and Food Chemistry, 2011, 59, 3239-3245.	2.4	9
54	Metabolic Capability of Penicillium oxalicum to Transform High Concentrations of Anti-Inflammatory and Analgesic Drugs. Applied Sciences (Switzerland), 2020, 10, 2479.	1.3	9

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55	Bioremediation of dry olive-mill residue removes inhibition of growth induced by this waste in tomato plants. International Journal of Environmental Science and Technology, 2014, 11, 21-32.	1.8	8
56	ROS-Scavenging Enzymes as an Antioxidant Response to High Concentration of Anthracene in the Liverwort Marchantia polymorpha L. Plants, 2021, 10, 1478.	1.6	8
57	Enzymatic mechanisms and detoxification of dry olive-mill residue by Cyclocybe aegerita, Mycetinis alliaceus and Chondrostereum purpureum. International Biodeterioration and Biodegradation, 2017, 117, 89-96.	1.9	7
58	Integrated biovalorization of wine and olive mill by-products to produce enzymes of industrial interest and soil amendments. Spanish Journal of Agricultural Research, 2016, 14, e0205.	0.3	7
59	Suppressive effect of olive residue and saprophytic fungi on the growth of Verticillium dahliae and its effect on the dry weight of tomato (Solanum lycopersicum L.). Journal of Soil Science and Plant Nutrition, 2012, 12, 303-313.	1.7	6
60	Effect of Composting Under Semipermeable Film on the Sewage Sludge Virome. Microbial Ecology, 2019, 78, 895-903.	1.4	6
61	Exploring the response of Marchantia polymorpha: Growth, morphology and chlorophyll content in the presence of anthracene. Plant Physiology and Biochemistry, 2019, 135, 570-574.	2.8	6
62	High-Throughput Microbial Community Analyses to Establish a Natural Fungal and Bacterial Consortium from Sewage Sludge Enriched with Three Pharmaceutical Compounds. Journal of Fungi (Basel, Switzerland), 2022, 8, 668.	1.5	5
63	Purification and characteristics of an inducible by polycyclic aromatic hydrocarbons NADP+-dependent naphthalenediol dehydrogenase (NDD) in Mucor circinelloides YR-1. Protein Expression and Purification, 2014, 97, 1-8.	0.6	4
64	Evaluation of the Abundance of Fungi in Wastewater Treatment Plants Using Quantitative PCR (qPCR). Methods in Molecular Biology, 2020, 2065, 79-94.	0.4	4
65	Dry matter and root colonization of plants by indigenous arbuscular mycorrhizal fungi with physical fractions of dry olive mill residue inoculated with saprophytic fungi. Spanish Journal of Agricultural Research, 2010, 8, 79.	0.3	3
66	Xyloglucanases in the interaction between saprobe fungi and the arbuscular mycorrhizal fungus Glomus mosseae. Journal of Plant Physiology, 2007, 164, 1019-1027.	1.6	2
67	The Contribution of Fungi and Their Lifestyle in the Nitrogen Cycle. , 2021, , 82-101.		2
68	Bioremediation of Polycyclic Aromatic Hydrocarbons (PAHs) Contaminated Soil Through Fungal Communities. Fungal Biology, 2019, , 217-236.	0.3	2
69	Assessment of the antioxidative response and culturable micro-organisms of <i>Lygeum spartum</i> Loefl. ex L. for prospective phytoremediation applications. International Journal of Phytoremediation, 2023, 25, 293-304.	1.7	2
70	An Overview of Fungal Applications in the Valorization of Lignocellulosic Agricultural By-Products: The Case of Two-Phase Olive Mill Wastes. Fungal Biology, 2018, , 213-238.	0.3	1
71	Design of Bio-Absorbent Systems for the Removal of Hydrocarbons from Industrial Wastewater: Pilot-Plant Scale. Toxics, 2021, 9, 162.	1.6	1
72	Interactions between phenolic compounds present in dry olive residues and the arbuscular mycorrhizal symbiosis. Mycological Progress, 2017, 16, 567-575.	0.5	0

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73	Biodegradation of Polycyclic Aromatic Hydrocarbons Using FungiNew Prospects toward Cytochrome P450 Engineering. , 2018, , 417-445.		0
74	Oxidative effects on Ri T-DNA-transformed root of Daucus carota exposed to anthracene. Theoretical and Experimental Plant Physiology, 2022, 34, 83-93.	1.1	0
75	Respuesta fisiolÃ³gica de Lunularia cruciata (phylum Marchantiophyta) a la presencia del hidrocarburo aromÃ¡tico policÃclico antraceno.. Boletin De La Sociedad Argentina De Botanica, 2021, 56, .	0.1	0