

# Andrew S Ball

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8324223/publications.pdf>

Version: 2024-02-01

252  
papers

10,424  
citations

36303

51  
h-index

49909

87  
g-index

256  
all docs

256  
docs citations

256  
times ranked

12305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil Type Is the Primary Determinant of the Composition of the Total and Active Bacterial Communities in Arable Soils. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1800-1809.	3.1	668
2	Farm costs and food miles: An assessment of the full cost of the UK weekly food basket. <i>Food Policy</i> , 2005, 30, 1-19.	6.0	354
3	Trends in pesticide use and drivers for safer pest management in four African countries. <i>Crop Protection</i> , 2008, 27, 1327-1334.	2.1	234
4	Kraft Pulp Biobleaching and Mediated Oxidation of a Nonphenolic Substrate by Laccase from <i>Streptomyces cyaneus</i> CECT 3335. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1953-1958.	3.1	222
5	Nanoparticles for environmental clean-up: A review of potential risks and emerging solutions. <i>Environmental Technology and Innovation</i> , 2016, 5, 10-21.	6.1	210
6	Soil Microbial Community Response to Land Use Change in an Agricultural Landscape of Western Kenya. <i>Microbial Ecology</i> , 2005, 49, 50-62.	2.8	206
7	Fungal-assisted algal flocculation: application in wastewater treatment and biofuel production. <i>Biotechnology for Biofuels</i> , 2015, 8, 24.	6.2	174
8	Responses of Active Bacterial and Fungal Communities in Soils under Winter Wheat to Different Fertilizer and Pesticide Regimens. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2692-2701.	3.1	165
9	Commercial feasibility of lignocellulose biodegradation: possibilities and challenges. <i>Current Opinion in Biotechnology</i> , 2016, 38, 190-197.	6.6	163
10	Co-Cultivation of Fungal and Microalgal Cells as an Efficient System for Harvesting Microalgal Cells, Lipid Production and Wastewater Treatment. <i>PLoS ONE</i> , 2014, 9, e113497.	2.5	159
11	Critical review of soil contamination by polybrominated diphenyl ethers (PBDEs) and novel brominated flame retardants (NBFRs); concentrations, sources and congener profiles. <i>Environmental Pollution</i> , 2017, 230, 741-757.	7.5	159
12	A review of the current options for the treatment and safe disposal of drill cuttings. <i>Waste Management and Research</i> , 2012, 30, 457-473.	3.9	158
13	Soil bioremediation approaches for petroleum hydrocarbon polluted environments. <i>AIMS Microbiology</i> , 2017, 3, 25-49.	2.2	153
14	Biodesulfurization of diesel fuels – Past, present and future perspectives. <i>International Biodeterioration and Biodegradation</i> , 2016, 110, 163-180.	3.9	152
15	Biocatalytic desulfurization (BDS) of petrodiesel fuels. <i>Microbiology (United Kingdom)</i> , 2008, 154, 2169-2183.	1.8	144
16	Metal accumulation in roadside soil in Melbourne, Australia: Effect of road age, traffic density and vehicular speed. <i>Environmental Pollution</i> , 2016, 208, 102-109.	7.5	133
17	Potential carbon mitigation and income in developing countries from changes in use and management of agricultural and forest lands. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002, 360, 1621-1639.	3.4	128
18	Petroleum Hydrocarbon Contamination in Terrestrial Ecosystems – Fate and Microbial Responses. <i>Molecules</i> , 2019, 24, 3400.	3.8	125

#	ARTICLE	IF	CITATIONS
19	Trace organic contaminants in biosolids: Impact of conventional wastewater and sludge processing technologies and emerging alternatives. <i>Journal of Hazardous Materials</i> , 2015, 300, 1-17.	12.4	119
20	Soil health – a new challenge for microbiologists and chemists. <i>International Microbiology</i> , 2005, 8, 13-21.	2.4	119
21	Case studies and evidence-based approaches to addressing urban soil lead contamination. <i>Applied Geochemistry</i> , 2017, 83, 14-30.	3.0	106
22	Diatom-Derived Carbohydrates as Factors Affecting Bacterial Community Composition in Estuarine Sediments. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6112-6124.	3.1	99
23	Dynamics of extracellular polymeric substance (EPS) production and loss in an estuarine, diatom-dominated, microalgal biofilm over a tidal emersion-immersion period. <i>Limnology and Oceanography</i> , 2006, 51, 79-93.	3.1	98
24	Dual application of duckweed and azolla plants for wastewater treatment and renewable fuels and petrochemicals production. <i>Biotechnology for Biofuels</i> , 2014, 7, 30.	6.2	95
25	Algal growth control by a barley straw extract. <i>Bioresource Technology</i> , 2001, 77, 177-181.	9.6	92
26	First Report of CRISPR/Cas9 Mediated DNA-Free Editing of 4CL and RVE7 Genes in Chickpea Protoplasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 396.	4.1	92
27	Polyaromatic hydrocarbon exposure: an ecological impact ambiguity. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4311-4326.	5.3	90
28	Children's Blood Lead Seasonality in Flint, Michigan (USA), and Soil-Sourced Lead Hazard Risks. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 358.	2.6	89
29	Heterogeneous aerobic benzene-degrading communities in oxygen-depleted groundwaters. <i>FEMS Microbiology Ecology</i> , 2006, 58, 260-270.	2.7	87
30	Enhanced Biological Straw Saccharification Through Coculturing of Lignocellulose-Degrading Microorganisms. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3709-3728.	2.9	84
31	Platinum in Earth surface environments. <i>Earth-Science Reviews</i> , 2014, 131, 1-21.	9.1	80
32	Lead exposure at firing ranges—a review. <i>Environmental Health</i> , 2017, 16, 34.	4.0	78
33	Influence of bioaugmentation and biostimulation on PAH degradation in aged contaminated soils: Response and dynamics of the bacterial community. <i>Journal of Environmental Management</i> , 2019, 238, 49-58.	7.8	78
34	Bio-desulfurization potential of a newly isolated bacterium, <i>Gordonia alkanivorans</i> RIPI90A. <i>Enzyme and Microbial Technology</i> , 2007, 40, 578-584.	3.2	77
35	Challenges and Current Status of the Biological Treatment of PFAS-Contaminated Soils. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 602040.	4.1	74
36	Biofuels from food processing wastes. <i>Current Opinion in Biotechnology</i> , 2016, 38, 97-105.	6.6	72

#	ARTICLE	IF	CITATIONS
37	Production and properties of xylanases from actinomycetes. <i>Journal of Applied Bacteriology</i> , 1989, 66, 439-444.	1.1	69
38	The recovery of lignocellulose-degrading enzymes from spent mushroom compost. <i>Bioresource Technology</i> , 1995, 54, 311-314.	9.6	69
39	Decolorization and detoxification of textile dyes using a versatile <i>Streptomyces</i> laccase-natural mediator system. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 913-920.	3.8	69
40	Concentrations of legacy and novel brominated flame retardants in indoor dust in Melbourne, Australia: An assessment of human exposure. <i>Environment International</i> , 2018, 113, 191-201.	10.0	68
41	Spatial Distribution of Novel and Legacy Brominated Flame Retardants in Soils Surrounding Two Australian Electronic Waste Recycling Facilities. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8194-8204.	10.0	65
42	Isolation of alkali-tolerant benzene-degrading bacteria from a contaminated aquifer. <i>Letters in Applied Microbiology</i> , 2008, 47, 60-66.	2.2	63
43	Microbial decomposition at elevated CO <sub>2</sub> levels: effect of litter quality. <i>Global Change Biology</i> , 1997, 3, 379-386.	9.5	61
44	Blood lead and preeclampsia: A meta-analysis and review of implications. <i>Environmental Research</i> , 2018, 160, 12-19.	7.5	61
45	Azoxystrobin and soil interactions: degradation and impact on soil bacterial and fungal communities. <i>Journal of Applied Microbiology</i> , 2008, 105, 1777-1790.	3.1	60
46	Biological Degradation of Polycyclic Aromatic Compounds (PAHs) in Soil: a Current Perspective. <i>Current Pollution Reports</i> , 2019, 5, 84-92.	6.6	60
47	Bioremediation potential of diesel-contaminated Libyan soil. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 297-305.	6.0	59
48	Re-use of remediated soils for the bioremediation of waste oil sludge. <i>Journal of Environmental Management</i> , 2011, 92, 866-871.	7.8	58
49	Large scale treatment of total petroleum-hydrocarbon contaminated groundwater using bioaugmentation. <i>Journal of Environmental Management</i> , 2018, 214, 157-163.	7.8	57
50	Effects of long-term benzene pollution on bacterial diversity and community structure in groundwater. <i>Environmental Microbiology</i> , 2005, 7, 1192-1199.	3.8	55
51	Iron nanoparticles synthesized using green tea extracts for the fenton-like degradation of concentrated dye mixtures at elevated temperatures. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4409-4417.	6.7	54
52	Mixed aerobic and anaerobic microbial communities in benzene-contaminated groundwater. <i>Journal of Applied Microbiology</i> , 2009, 106, 317-328.	3.1	53
53	Development of a Cre-loxP-based genetic system in <i>Aspergillus niger</i> ATCC1015 and its application to construction of efficient organic acid-producing cell factories. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8105-8114.	3.6	53
54	Extracellular Heme Peroxidases in Actinomycetes: a Case of Mistaken Identity. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4512-4519.	3.1	52

#	ARTICLE	IF	CITATIONS
55	Microbial community dynamics in anaerobic bioreactors and algal tanks treating piggery wastewater. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 353-363.	3.6	52
56	Plant residues – A low cost, effective bioremediation treatment for petrogenic hydrocarbon-contaminated soil. <i>Science of the Total Environment</i> , 2013, 443, 766-774.	8.0	52
57	Assessment of soil metal concentrations in residential and community vegetable gardens in Melbourne, Australia. <i>Chemosphere</i> , 2018, 199, 303-311.	8.2	52
58	Exploiting the intrinsic microbial degradative potential for field-based in situ dechlorination of trichloroethene contaminated groundwater. <i>Journal of Hazardous Materials</i> , 2015, 300, 48-57.	12.4	51
59	Effect of biostimulation on the distribution and composition of the microbial community of a polycyclic aromatic hydrocarbon-contaminated landfill soil during bioremediation. <i>Geoderma</i> , 2019, 338, 216-225.	5.1	51
60	Review of the interactions between vehicular emitted potentially toxic elements, roadside soils, and associated biota. <i>Chemosphere</i> , 2021, 263, 128135.	8.2	51
61	Contributions to a better comprehension of redox-mediated decolouration and detoxification of azo dyes by a laccase produced by <i>Streptomyces cyaneus</i> CECT 3335. <i>Bioresource Technology</i> , 2010, 101, 2224-2229.	9.6	50
62	Wildfire effects on the microbial activity and diversity in a Mediterranean forest soil. <i>Catena</i> , 2017, 158, 82-88.	5.0	50
63	Optimization of extracellular lignocellulolytic enzyme production by a thermophilic actinomycete <i>Thermomonospora fusca</i> BD25. <i>Enzyme and Microbial Technology</i> , 1999, 25, 38-47.	3.2	49
64	A complementary approach to identifying and assessing the remediation potential of hydrocarbonoclastic bacteria. <i>Journal of Microbiological Methods</i> , 2012, 88, 348-355.	1.6	49
65	Implications of co-contamination with aged heavy metals and total petroleum hydrocarbons on natural attenuation and ecotoxicity in Australian soils. <i>Environmental Pollution</i> , 2018, 243, 94-102.	7.5	49
66	Physico-chemical and microbial perturbations of Andalusian pine forest soils following a wildfire. <i>Science of the Total Environment</i> , 2018, 634, 650-660.	8.0	48
67	Large scale bioaugmentation of soil contaminated with petroleum hydrocarbons using a mixed microbial consortium. <i>Ecological Engineering</i> , 2017, 102, 64-71.	3.6	47
68	Detection of novel brominated flame retardants (NBFRs) in the urban soils of Melbourne, Australia. <i>Emerging Contaminants</i> , 2017, 3, 23-31.	4.9	47
69	Application of Aquatic Plants for the Treatment of Selenium-Rich Mining Wastewater and Production of Renewable Fuels and Petrochemicals. <i>Journal of Sustainable Bioenergy Systems</i> , 2014, 04, 97-112.	0.8	47
70	The decomposition of <i>Lolium perenne</i> in soils exposed to elevated CO <sub>2</sub> : comparisons of mass loss of litter with soil respiration and soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1359-1366.	8.8	46
71	Assessing the hydrocarbon degrading potential of indigenous bacteria isolated from crude oil tank bottom sludge and hydrocarbon-contaminated soil of Azzawiya oil refinery, Libya. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10725-10735.	5.3	46
72	Biological role in the transformation of platinum-group mineral grains. <i>Nature Geoscience</i> , 2016, 9, 294-298.	12.9	46

#	ARTICLE	IF	CITATIONS
73	Bio-harvesting and pyrolysis of the microalgae <i>Botryococcus braunii</i> . <i>Bioresource Technology</i> , 2015, 191, 117-123.	9.6	45
74	Impact of salinity on organic matter and nitrogen removal from a municipal wastewater RO concentrate using biologically activated carbon coupled with UV/H <sub>2</sub> O <sub>2</sub> . <i>Water Research</i> , 2016, 94, 103-110.	11.3	44
75	Is the global public willing to drink recycled water? A review for researchers and practitioners. <i>Utilities Policy</i> , 2019, 56, 53-61.	4.0	43
76	Solubilisation and mineralisation of [ <sup>14</sup> C]lignocellulose from wheat straw by <i>Streptomyces cyaneus</i> CECT 3335 during growth in solid-state fermentation. <i>Applied Microbiology and Biotechnology</i> , 1997, 48, 379-384.	3.6	42
77	Stabilization of water/gas oil emulsions by desulfurizing cells of <i>Gordonia alkanivorans</i> RIP190A. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1573-1581.	1.8	42
78	Effect of Free Air Carbon dioxide Enrichment (FACE) on the chemical composition and nutritive value of wheat grain and straw. <i>Animal Feed Science and Technology</i> , 2009, 149, 322-332.	2.2	42
79	Bacterial community survey of sediments at Naracoorte Caves, Australia. <i>International Journal of Speleology</i> , 2012, 41, 137-147.	1.0	42
80	Evaluating the efficacy of bioremediating a diesel-contaminated soil using ecotoxicological and bacterial community indices. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14809-14819.	5.3	42
81	Comparison of rapid solvent extraction systems for the GC-MS/MS characterization of polycyclic aromatic hydrocarbons in aged, contaminated soil. <i>MethodsX</i> , 2016, 3, 364-370.	1.6	42
82	The impact of lead co-contamination on ecotoxicity and the bacterial community during the bioremediation of total petroleum hydrocarbon-contaminated soils. <i>Environmental Pollution</i> , 2019, 253, 939-948.	7.5	42
83	Phylogenetic diversity of fungal communities in areas accessible and not accessible to tourists in Naracoorte Caves. <i>Mycologia</i> , 2011, 103, 959-968.	1.9	41
84	Microbial community and ecotoxicity analysis of bioremediated, weathered hydrocarbon-contaminated soil. <i>Soil Research</i> , 2011, 49, 261.	1.1	41
85	Comparison of indigenous and exogenous microbial populations during slurry phase biodegradation of long-term hydrocarbon-contaminated soil. <i>Biodegradation</i> , 2012, 23, 813-822.	3.0	41
86	Impact of bacterial and fungal processes on <sup>14</sup> C-hexadecane mineralisation in weathered hydrocarbon contaminated soil. <i>Science of the Total Environment</i> , 2012, 414, 585-591.	8.0	41
87	Lipid production in association of filamentous fungi with genetically modified cyanobacterial cells. <i>Biotechnology for Biofuels</i> , 2015, 8, 179.	6.2	41
88	The use of extracellular enzymes from <i>Streptomyces albus</i> ATCC 3005 for the bleaching of eucalyptus kraft pulp. <i>Applied Microbiology and Biotechnology</i> , 2001, 57, 92-97.	3.6	40
89	Can biological toxicity drive the contrasting behavior of platinum and gold in surface environments?. <i>Chemical Geology</i> , 2013, 343, 99-110.	3.3	40
90	Azo and anthraquinone dye mixture decolourization at elevated temperature and concentration by a newly isolated thermophilic fungus, <i>Thermomucor indicae-seudaticae</i> . <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 415-423.	6.7	40

#	ARTICLE	IF	CITATIONS
91	Rhizoremediation of phenanthrene and pyrene contaminated soil using wheat. <i>Journal of Environmental Management</i> , 2015, 155, 171-176.	7.8	40
92	Can biochar be an effective and reliable biostimulating agent for the remediation of hydrocarbon-contaminated soils?. <i>Environment International</i> , 2021, 154, 106553.	10.0	40
93	A quantitative PCR approach for quantification of functional genes involved in the degradation of polycyclic aromatic hydrocarbons in contaminated soils. <i>MethodsX</i> , 2016, 3, 205-211.	1.6	38
94	A review of germination and early growth as a proxy for plant fitness under petrogenic contamination – knowledge gaps and recommendations. <i>Science of the Total Environment</i> , 2017, 603-604, 728-744.	8.0	38
95	The toxicity of coated silver nanoparticles to <i>Daphnia carinata</i> and trophic transfer from alga <i>Raphidocelis subcapitata</i> . <i>PLoS ONE</i> , 2019, 14, e0214398.	2.5	38
96	Dynamics and compositional changes in extracellular carbohydrates in estuarine sediments during degradation. <i>Marine Ecology - Progress Series</i> , 2009, 379, 45-58.	1.9	37
97	Tolerance of Selected Plant Species to Petrogenic Hydrocarbons and Effect of Plant Rhizosphere on the Microbial Removal of Hydrocarbons in Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	37
98	Microalgae digestate effluent as a growth medium for <i>Tetraselmis</i> sp. in the production of biofuels. <i>Bioresource Technology</i> , 2014, 167, 81-86.	9.6	37
99	An effective soil slurry bioremediation protocol for the treatment of Libyan soil contaminated with crude oil tank bottom sludge. <i>International Biodeterioration and Biodegradation</i> , 2016, 115, 179-185.	3.9	33
100	Stimulation of soil respiration by carbon dioxide enrichment of marsh vegetation. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1203-1205.	8.8	32
101	Biosurfactant from red ash trees enhances the bioremediation of PAH contaminated soil at a former gasworks site. <i>Journal of Environmental Management</i> , 2015, 162, 30-36.	7.8	31
102	Bioremediation of Phenol-Contaminated Industrial Wastewater Using a Bacterial Consortium from Laboratory to Field. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	31
103	Harnessing the Hydrocarbon-Degrading Potential of Contaminated Soils for the Bioremediation of Waste Engine Oil. <i>Water, Air, and Soil Pollution</i> , 2011, 218, 121-130.	2.4	30
104	Production of extracellular enzymes during the solubilisation of straw by <i>Thermomonospora fusca</i> BD25. <i>Applied Microbiology and Biotechnology</i> , 1994, 41, 366-372.	3.6	29
105	Phytofabrication of Iron Nanoparticles for Hexavalent Chromium Remediation. <i>ACS Omega</i> , 2018, 3, 10781-10790.	3.5	29
106	Nitrogen contamination and bioremediation in groundwater and the environment: A review. <i>Earth-Science Reviews</i> , 2021, 222, 103816.	9.1	29
107	Biological upgrading of wheat straw through solid-state fermentation with <i>Streptomyces cyaneus</i> . <i>Applied Microbiology and Biotechnology</i> , 2000, 54, 764-771.	3.6	28
108	Co-operative actions and degradation analysis of purified xylan-degrading enzymes from <i>Thermomonospora fusca</i> BD25 on oat-spelt xylan. <i>Journal of Applied Microbiology</i> , 2003, 94, 1030-1035.	3.1	28



#	ARTICLE	IF	CITATIONS
109	Microorganisms involved in anaerobic benzene degradation. <i>Annals of Microbiology</i> , 2015, 65, 1201-1213.	2.6	28
110	Role of a thermostable laccase produced by <i>Streptomyces ipomoeae</i> in the degradation of wheat straw lignin in solid state fermentation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 202-208.	5.5	28
111	The effect of nutrients and environmental conditions on biomass and oil production in <i>Botryococcus braunii</i> Race B strains. <i>European Journal of Phycology</i> , 2016, 51, 1-10.	2.0	28
112	Assessing the degradation efficacy of native PAH-degrading bacteria from aged, weathered soils in an Australian former gasworks site. <i>Geoderma</i> , 2018, 321, 110-117.	5.1	28
113	Laccase SilA from <i>Streptomyces ipomoeae</i> CECT 3341, a key enzyme for the degradation of lignin from agricultural residues?. <i>PLoS ONE</i> , 2017, 12, e0187649.	2.5	28
114	Dimethyl sulfoxide (DMSO) as the sulfur source for the production of desulfurizing resting cells of <i>Gordonia alkanivorans</i> RIPI90A. <i>Microbiology (United Kingdom)</i> , 2008, 154, 878-885.	1.8	27
115	Complete Genome Sequence of <i>Lactobacillus plantarum</i> Strain B21, a Bacteriocin-Producing Strain Isolated from Vietnamese Fermented Sausage Nem Chua. <i>Genome Announcements</i> , 2015, 3, .	0.8	27
116	Widespread polybrominated diphenyl ether (PBDE) contamination of urban soils in Melbourne, Australia. <i>Chemosphere</i> , 2016, 164, 225-232.	8.2	27
117	Sustainable remediation – The application of bioremediated soil for use in the degradation of TNT chips. <i>Journal of Environmental Management</i> , 2012, 110, 69-76.	7.8	26
118	Restoration of tropical peat soils: The application of soil microbiology for monitoring the success of the restoration process. <i>Agriculture, Ecosystems and Environment</i> , 2016, 216, 293-303.	5.3	26
119	RNA sequencing of leaf tissues from two contrasting chickpea genotypes reveals mechanisms for drought tolerance. <i>Plant Physiology and Biochemistry</i> , 2018, 129, 295-304.	5.8	26
120	Production and partial characterization of extracellular peroxidases produced by <i>Streptomyces avermitilis</i> UAH30. <i>Applied Biochemistry and Biotechnology</i> , 1997, 62, 159-174.	2.9	25
121	Assessment of the potential of a novel newspaper/horse manure-based compost. <i>Bioresource Technology</i> , 2000, 73, 163-167.	9.6	25
122	Carrier mounted bacterial consortium facilitates oil remediation in the marine environment. <i>Bioresource Technology</i> , 2013, 134, 107-116.	9.6	25
123	Assessment of arsenic in Australian grown and imported rice varieties on sale in Australia and potential links with irrigation practices and soil geochemistry. <i>Chemosphere</i> , 2015, 138, 1008-1013.	8.2	24
124	Microbial Degradation of Phenanthrene in Pristine and Contaminated Sandy Soils. <i>Microbial Ecology</i> , 2018, 75, 888-902.	2.8	24
125	Improving bioenergy production in anaerobic digestion systems utilising chicken manure via pyrolysed biochar additives: A review. <i>Fuel</i> , 2022, 316, 123374.	6.4	24
126	Dechlorination of chlorophenols using extracellular peroxidases produced by <i>Streptomyces albus</i> ATCC 3005. <i>Enzyme and Microbial Technology</i> , 2001, 29, 62-69.	3.2	23



#	ARTICLE	IF	CITATIONS
127	Mineralisation of Weathered Crude Oil by a Hydrocarbonoclastic Consortia in Marine Mesocosms. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4283-4295.	2.4	23
128	Citrate and malonate increase microbial activity and alter microbial community composition in uncontaminated and diesel-contaminated soil microcosms. <i>Soil</i> , 2016, 2, 487-498.	4.9	23
129	Study of thermal behavior of deoiled karanja seed cake biomass: thermogravimetric analysis and pyrolysis kinetics. <i>Energy Science and Engineering</i> , 2016, 4, 86-95.	4.0	22
130	Bioethanol production from non-edible de-oiled <i>Pongamia pinnata</i> seed residue-optimization of acid hydrolysis followed by fermentation. <i>Industrial Crops and Products</i> , 2016, 94, 490-497.	5.2	22
131	Production and characterization of ferulic acid esterase activity in crude extracts by <i>Streptomyces avermitilis</i> CECT 3339. <i>Applied Microbiology and Biotechnology</i> , 1998, 50, 213-218.	3.6	21
132	Extractable liquid, its energy and hydrocarbon content in the green alga <i>Botryococcus braunii</i> . <i>Biomass and Bioenergy</i> , 2013, 52, 103-112.	5.7	21
133	Application of the affinity binding of xylanases to oat-spelt xylan in the purification of endoxylanase CM-2 from <i>Streptomyces chattanoogensis</i> CECT 3336. <i>Applied Microbiology and Biotechnology</i> , 1998, 50, 284-287.	3.6	20
134	Investigating the effectiveness of economically sustainable carrier material complexes for marine oil remediation. <i>Bioresource Technology</i> , 2012, 126, 202-207.	9.6	20
135	Necrophytoremediation of phenanthrene and pyrene in contaminated soil. <i>Journal of Environmental Management</i> , 2013, 122, 105-112.	7.8	20
136	A polyphasic approach for assessing the suitability of bioremediation for the treatment of hydrocarbon-impacted soil. <i>Science of the Total Environment</i> , 2013, 450-451, 51-58.	8.0	20
137	The application of activated carbon for the treatment and reuse of the aqueous phase derived from the hydrothermal liquefaction of a halophytic <i>Tetraselmis</i> sp.. <i>Bioresource Technology</i> , 2015, 182, 378-382.	9.6	20
138	The assessment of the impact of oil palm and rubber plantations on the biotic and abiotic properties of tropical peat swamp soil in Indonesia. <i>International Journal of Agricultural Sustainability</i> , 2015, 13, 150-166.	3.5	19
139	Exploiting the intrinsic hydrocarbon-degrading microbial capacities in oil tank bottom sludge and waste soil for sludge bioremediation. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1427-1436.	3.5	19
140	Detection and identification of polyaromatic hydrocarbons (PAHs) contamination in soil using intrinsic fluorescence. <i>Environmental Pollution</i> , 2021, 272, 116010.	7.5	19
141	Degradation of lignocellulose by extracellular enzymes produced by <i>Thermomonospora fusca</i> BD25. <i>Applied Microbiology and Biotechnology</i> , 2002, 58, 608-611.	3.6	18
142	High benzene concentrations can favour Gram-positive bacteria in groundwaters from a contaminated aquifer. <i>FEMS Microbiology Ecology</i> , 2008, 65, 526-533.	2.7	18
143	The oral microbial community of gingivitis and lumpy jaw in captive macropods. <i>Research in Veterinary Science</i> , 2013, 95, 996-1005.	1.9	18
144	Catalytic degradation of methylene blue using iron and nitrogen-containing carbon dots as Fenton-like catalysts. <i>New Journal of Chemistry</i> , 2021, 46, 263-275.	2.8	18

#	ARTICLE	IF	CITATIONS
145	Utilising bacterial communities associated with digested piggery effluent as a primary food source for the batch culture of <i>Moina australiensis</i> . <i>Bioresource Technology</i> , 2010, 101, 3371-3378.	9.6	17
146	A molecular survey of a captive wallaby population for periodontopathogens and the co-incidence of <i>Fusobacterium necrophorum</i> subspecies <i>necrophorum</i> with periodontal diseases. <i>Veterinary Microbiology</i> , 2013, 163, 335-343.	1.9	17
147	Sustainable remediation: electrochemically assisted microbial dechlorination of tetrachloroethene-contaminated groundwater. <i>Microbial Biotechnology</i> , 2014, 7, 54-63.	4.2	17
148	Selective pressurized liquid extraction of replacement and legacy brominated flame retardants from soil. <i>Journal of Chromatography A</i> , 2016, 1458, 118-125.	3.7	17
149	Sources, turnover and bioavailability of dissolved organic nitrogen (DON) in the Colne estuary, UK. <i>Marine Ecology - Progress Series</i> , 2009, 382, 23-33.	1.9	17
150	Oxygen reduction by cellobiose oxidoreductase: the role of the haem group. <i>FEBS Letters</i> , 2002, 518, 29-32.	2.8	16
151	Changes in microbial and nutrient composition associated with rumen content compost incubation. <i>Bioresource Technology</i> , 2011, 102, 3848-3854.	9.6	16
152	Potential impact of soil microbial heterogeneity on the persistence of hydrocarbons in contaminated subsurface soils. <i>Journal of Environmental Management</i> , 2014, 136, 27-36.	7.8	16
153	Mass culture strategy for bacterial yeast co-culture for degradation of petroleum hydrocarbons in marine environment. <i>Marine Pollution Bulletin</i> , 2015, 100, 191-199.	5.0	16
154	Characterisation of the soil microbial community of cultivated and uncultivated vertisol in Australia under several management regimes. <i>Agriculture, Ecosystems and Environment</i> , 2015, 199, 418-427.	5.3	16
155	Introduction into nanotechnology and microbiology. <i>Methods in Microbiology</i> , 2019, 46, 1-18.	0.8	16
156	Renewable energy from the solid-state anaerobic digestion of grape marc and cheese whey at high treatment capacity. <i>Biomass and Bioenergy</i> , 2020, 143, 105880.	5.7	16
157	The application of <i>Marinobacter hydrocarbonoclasticus</i> as a bioaugmentation agent for the enhanced treatment of non-sterile fish wastewater. <i>Journal of Environmental Management</i> , 2021, 291, 112658.	7.8	16
158	The influences of the recycle process on the bacterial community in a pilot scale microalgae raceway pond. <i>Bioresource Technology</i> , 2014, 157, 364-367.	9.6	15
159	<i>Pongamia pinnata</i> seed residue – A low cost inedible resource for on-site/in-house lignocellulases and sustainable ethanol production. <i>Renewable Energy</i> , 2017, 103, 682-687.	8.9	15
160	Bioremediation of biosolids with <i>Phanerochaete chrysosporium</i> culture filtrates enhances the degradation of polycyclic aromatic hydrocarbons (PAHs). <i>Applied Soil Ecology</i> , 2018, 124, 163-170.	4.3	15
161	Impact of necrophytoremediation on petroleum hydrocarbon degradation, ecotoxicity and soil bacterial community composition in diesel-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31171-31183.	5.3	15
162	A macroalgal germling bioassay to assess biocide concentrations in marine waters. <i>Marine Pollution Bulletin</i> , 2015, 91, 82-86.	5.0	14

#	ARTICLE	IF	CITATIONS
163	Bioremediation Approaches for Petroleum Hydrocarbon-Contaminated Environments. , 2017, , 21-41.		14
164	Factors Influencing the Concentration of Fecal Coliforms in Oysters in the River Blackwater Estuary, UK. Water (Switzerland), 2020, 12, 1086.	2.7	14
165	Real-time detection and identification of nematode eggs genus and species through optical imaging. Scientific Reports, 2020, 10, 7219.	3.3	14
166	The effect of plant material grown under elevated CO2 on soil respiratory activity. Plant and Soil, 1994, 162, 315-318.	3.7	13
167	Decolorisation of the polymeric dye Poly R byStreptomyces viridosporus T7A. Journal of Basic Microbiology, 1996, 36, 13-18.	3.3	13
168	Burning management and carbon sequestration of upland heather moorland in the UK. Soil Research, 2009, 47, 351.	1.1	13
169	An effective microplate method (Biolog MT2) for screening native lignocellulosic-straw-degrading bacteria. Annals of Microbiology, 2015, 65, 2053-2064.	2.6	13
170	Elevated atmospheric-carbon dioxide concentration increases soil respiration in a mid-successional lowland forest. Soil Biology and Biochemistry, 2000, 32, 721-723.	8.8	12
171	Elevated atmospheric CO2 affects the turnover of nitrogen in a European grassland. Applied Soil Ecology, 2005, 28, 37-46.	4.3	12
172	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. Scientific Reports, 2015, 5, 11515.	3.3	12
173	The toxicity of coated silver nanoparticles to the alga Raphidocelis subcapitata. SN Applied Sciences, 2020, 2, 1.	2.9	12
174	Degradation of alkali-lignin residues from solid-state fermentation of wheat straw by streptomycetes. Biodegradation, 2001, 12, 219-223.	3.0	11
175	Biomechanical pulping of spruce wood chips with Streptomyces cyaneus CECT 3335 and handsheet characterization. Holzforschung, 2005, 59, 173-177.	1.9	11
176	Elucidation of the microbial diversity in rivers in south-west Victoria, Australia impacted by rural agricultural contamination (dairy farming). Ecotoxicology and Environmental Safety, 2019, 172, 356-363.	6.0	11
177	The effects of vehicular emissions on the activity and diversity of the roadside soil microbial community. Environmental Pollution, 2021, 277, 116744.	7.5	11
178	Comparison of microbially enhanced compost extracts produced from composted cattle rumen content material and from commercially available inocula. Bioresource Technology, 2011, 102, 7994-8002.	9.6	10
179	Assessing impediments to hydrocarbon biodegradation in weathered contaminated soils. Journal of Hazardous Materials, 2013, 261, 847-853.	12.4	10
180	Microbial diversity and activity in caves. Microbiology Australia, 2014, 35, 192.	0.4	10

#	ARTICLE	IF	CITATIONS
181	Biostimulation of indigenous communities for the successful dechlorination of tetrachloroethene (perchloroethylene)-contaminated groundwater. <i>Biotechnology Letters</i> , 2014, 36, 75-83.	2.2	10
182	The application of a carrier-based bioremediation strategy for marine oil spills. <i>Marine Pollution Bulletin</i> , 2014, 84, 339-346.	5.0	10
183	Motor neuron disease mortality and lifetime petrol lead exposure: Evidence from national age-specific and state-level age-standardized death rates in Australia. <i>Environmental Research</i> , 2017, 153, 181-190.	7.5	10
184	Biostabilization of municipal solid waste fractions from an Advanced Waste Treatment plant. <i>Journal of King Saud University - Science</i> , 2017, 29, 145-150.	3.5	10
185	Preliminary assessment of surface soil lead concentrations in Melbourne, Australia. <i>Environmental Geochemistry and Health</i> , 2018, 40, 637-650.	3.4	10
186	Response of the fungal community to chronic petrogenic contamination in surface and subsurface soils. <i>Geoderma</i> , 2019, 338, 206-215.	5.1	10
187	Substrate-to-inoculum ratio drives solid-state anaerobic digestion of unamended grape marc and cheese whey. <i>PLoS ONE</i> , 2022, 17, e0262940.	2.5	10
188	Wood Biochar Enhances the Valorisation of the Anaerobic Digestion of Chicken Manure. <i>Clean Technologies</i> , 2022, 4, 420-439.	4.2	10
189	Oxidation of hydrogen sulphide in sour gas by <i>Chlorobium limicola</i> . <i>Enzyme and Microbial Technology</i> , 2007, 41, 702-705.	3.2	9
190	“Cycliplex PCR” confirmation of <i>Fusobacterium necrophorum</i> isolates from captive wallabies: A rapid and accurate approach. <i>Anaerobe</i> , 2013, 19, 44-49.	2.1	9
191	A Temporal Association between Accumulated Petrol (Gasoline) Lead Emissions and Motor Neuron Disease in Australia. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 16124-16135.	2.6	9
192	A modified assay for the enumeration of ascaris eggs in fresh raw sewage. <i>MethodsX</i> , 2017, 4, 186-190.	1.6	9
193	From Microbial Ecology to Microbial Ecotoxicology. , 2017, , 17-38.		9
194	Estimates of potential childhood lead exposure from contaminated soil using the USEPA IEUBK model in Melbourne, Australia. <i>Environmental Geochemistry and Health</i> , 2018, 40, 2785-2793.	3.4	9
195	Green synthesis of <i>Opuntia</i> -derived carbon nanodots for the catalytic decolourization of cationic dyes. <i>New Journal of Chemistry</i> , 2020, 44, 20001-20012.	2.8	9
196	Analysis of the Microbiome (Bathing Biome) in Geothermal Waters from an Australian Balneotherapy Centre. <i>Water (Switzerland)</i> , 2020, 12, 1705.	2.7	9
197	Detection of Helminth Ova in Wastewater Using Recombinase Polymerase Amplification Coupled to Lateral Flow Strips. <i>Water (Switzerland)</i> , 2020, 12, 691.	2.7	9
198	Bioaugmentation of seafood processing wastewater enhances the removal of inorganic nitrogen and chemical oxygen demand. <i>Aquaculture</i> , 2021, 542, 736818.	3.5	9

#	ARTICLE	IF	CITATIONS
199	Assessment of the Hydrocarbon Degrading Abilities of Three Bioaugmentation Agents for the Bioremediation of Crude Oil Tank Bottom Sludge Contaminated Libyan Soil. <i>International Journal of Environmental Bioremediation &amp; Biodegradation</i> , 2015, 3, 1-9.	39.0	9
200	Effect of alternative lipids and temperature on growth factor gene expression in yellowtail kingfish ( <i>Seriola lalandi</i> ). <i>Aquaculture Research</i> , 2014, 45, 1236-1245.	1.8	8
201	The influence of protozoa with a filtered and non-filtered seawater culture of <i>Tetraselmis</i> sp., and effects to the bacterial and algal communities over 10 days. <i>Bioresource Technology</i> , 2014, 173, 361-366.	9.6	8
202	Phytoremediation and Necrophytoremediation of Petrogenic Hydrocarbon-Contaminated Soils. , 2015, , 321-334.		8
203	A Review on the Current Knowledge and Prospects for the Development of Improved Detection Methods for Soil-Transmitted Helminth Ova for the Safe Reuse of Wastewater and Mitigation of Public Health Risks. <i>Water (Switzerland)</i> , 2019, 11, 1212.	2.7	8
204	Viability determination of <i>Ascaris</i> ova in raw wastewater: a comparative evaluation of culture-based, BaCLight Live/Dead staining and PMA-qPCR methods. <i>Water Science and Technology</i> , 2019, 80, 817-826.	2.5	8
205	The Importance of Weathered Crude Oil as a Source of Hydrocarbonoclastic Microorganisms in Contaminated Seawater. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1185-1192.	2.1	8
206	The Effect of Media on Biomass and Oil Production in <i>Botryococcus braunii</i> Strains Kossou-4 and Overjuyo-3. <i>International Journal of Clean Coal and Energy</i> , 2015, 04, 11-22.	0.8	8
207	Isolation and characterisation of a novel non-haem extracellular peroxidase produced by the Thermophilic Actinomycete <i>Thermomonospora fusca</i> BD25. <i>Biochemical Society Transactions</i> , 1995, 23, 507S-507S.	3.4	7
208	The detection and quantification of novel non-haem extracellular glycosylated peroxidases produced by the thermophilic actinomycete <i>Thermomonospora fusca</i> BD25 by means of PAGE-zymogram. <i>Biochemical Society Transactions</i> , 1997, 25, 37S-37S.	3.4	7
209	The electron paramagnetic resonance characterisation of a copper-containing extracellular peroxidase from <i>Thermomonospora fusca</i> BD25. <i>BBA - Proteins and Proteomics</i> , 1999, 1434, 74-85.	2.1	7
210	The effects of iron limitation and cell density on prokaryotic metabolism and gene expression: Excerpts from <i>Fusobacterium necrophorum</i> strain 774 (sheep isolate). <i>Gene</i> , 2015, 563, 94-102.	2.2	7
211	Effects of Dietary Fibre from the Traditional Indonesian Food, Green Cincau ( <i>Premna oblongifolia</i> ) Tj ETQq1 1 0.784314 rgBT /Overl of Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2593.	4.1	7
212	A modified approach to recover and enumerate <i>Ascaris</i> ova in wastewater and sludge. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007020.	3.0	7
213	A comparative study of biological activated carbon based treatments on two different types of municipal reverse osmosis concentrates. <i>Chemosphere</i> , 2020, 240, 124925.	8.2	7
214	Longitudinal analysis of <i>Giardia duodenalis</i> assemblages in animals inhabiting drinking water catchments in New South Wales and Queensland Australia (2013-2015). <i>Science of the Total Environment</i> , 2020, 718, 137433.	8.0	7
215	Application of Co-Culture Technology to Enhance Protease Production by Two Halophilic Bacteria, <i>Marinirhabdus</i> sp. and <i>Marinobacter hydrocarbonoclasticus</i> . <i>Molecules</i> , 2021, 26, 3141.	3.8	7
216	Options for Improved Treatment of Saline Wastewater From Fish and Shellfish Processing. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	7

#	ARTICLE	IF	CITATIONS
217	A Review on the Bioremediation of Petroleum Hydrocarbons: Current State of the Art. , 2018, , 643-667.		6
218	RemScan: A tool for monitoring the bioremediation of Total Petroleum Hydrocarbons in contaminated soil. <i>MethodsX</i> , 2018, 5, 705-709.	1.6	6
219	Detection of helminth ova genera using in-situ biosynthesis of gold nanoparticles. <i>MethodsX</i> , 2019, 6, 993-997.	1.6	6
220	Interfacial separation of concentrated dye mixtures from solution with environmentally compatible nitrogenous-silane nanoparticles modified with <i>Helianthus annuus</i> husk extract. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 825-837.	9.4	6
221	REDOX REACTION OF THE NOVEL NON-HAEM GLYCOSYLATED PEROXIDASES FROM THERMOPHILIC ACTINOMYCETE <i>Thermomonospora fusca</i> BD25. <i>Biochemical Society Transactions</i> , 1996, 24, 455S-455S.	3.4	5
222	Towards the commercialization of <i>Botryococcus braunii</i> for triterpenoid production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1415-1418.	3.0	5
223	Bioaugmentation: an effective commercial technology for the removal of phenols from wastewater. <i>Microbiology Australia</i> , 2017, 38, 82.	0.4	5
224	Biomineralization of Platinum by <i>Escherichia coli</i> . <i>Metals</i> , 2019, 9, 407.	2.3	5
225	A Review of Dry Sanitation Systems. <i>Sustainability</i> , 2020, 12, 5812.	3.2	5
226	Degradation of the Dinitrotoluene Isomers 2,4- and 2,6-DNT: Appraising the Role of Microorganisms. , 2017, , 5-20.		5
227	Remediation of groundwater contaminated with dye using carbon dots technology: Ecotoxicological and microbial community responses. <i>Journal of Environmental Management</i> , 2022, 319, 115634.	7.8	5
228	Phytoremediation of PCBs and PAHs by Grasses: A Critical Perspective. , 2016, , 3-19.		4
229	Editorial overview: Energy biotechnology. <i>Current Opinion in Biotechnology</i> , 2016, 38, v-vii.	6.6	4
230	Are Sterols Useful for the Identification of Sources of Faecal Contamination in Shellfish? A Case Study. <i>Water (Switzerland)</i> , 2020, 12, 3076.	2.7	4
231	Co-Digestion of Grape Marc and Cheese Whey at High Total Solids Holds Potential for Sustained Bioenergy Generation. <i>Molecules</i> , 2020, 25, 5754.	3.8	4
232	Measuring Soil Metal Bioavailability in Roadside Soils of Different Ages. <i>Environments - MDPI</i> , 2020, 7, 91.	3.3	4
233	Selection of Industrial Trade Waste Resource Recovery Technologies—A Systematic Review. <i>Resources</i> , 2021, 10, 29.	3.5	4
234	Long-term Impact of Gold and Platinum on Microbial Diversity in Australian Soils. <i>Microbial Ecology</i> , 2021, 81, 977-989.	2.8	4

#	ARTICLE	IF	CITATIONS
235	Modeling Possibilities for the Assessment of Soil Systems. Books in Soils, Plants, and the Environment, 2006, , 683-692.	0.1	4
236	A Review on the Catalytic Remediation of Dyes by Tailored Carbon Dots. Water (Switzerland), 2022, 14, 1456.	2.7	4
237	RNA-TGCE, a Tool for Assessing the Potential for Bioremediation in Impacted Marine Ecosystems. Journal of Marine Science and Engineering, 2015, 3, 968-980.	2.6	3
238	Dose-related changes in respiration and enzymatic activities in soils amended with mobile platinum and gold. Applied Soil Ecology, 2021, 157, 103727.	4.3	3
239	Natural attenuation of legacy hydrocarbon spills in pristine soils is feasible despite difficult environmental conditions in the monsoon tropics. Science of the Total Environment, 2021, 799, 149335.	8.0	3
240	Dynamic Effect of Operational Regulation on the Mesophilic BioMethanation of Grape Marc. Molecules, 2021, 26, 6692.	3.8	3
241	The Variation in Groundwater Microbial Communities in an Unconfined Aquifer Contaminated by Multiple Nitrogen Contamination Sources. Water (Switzerland), 2022, 14, 613.	2.7	3
242	PRODUCTION OF EXTRACELLULAR LIGNOCELLULOSE DEGRADING ENZYMES BY <i>THERMOMONOSPORA FUSCA</i> BD25. Biochemical Society Transactions, 1996, 24, 378S-378S.	3.4	2
243	Does anaerobic bacterial antibiosis decrease fungal diversity in oral necrobacillosis disease?. Research in Veterinary Science, 2013, 95, 1012-1020.	1.9	2
244	Photoluminescence measurements of carbon quantum dots within three-dimensional hydrogel matrices using a high throughput 96 well plate method. MethodsX, 2019, 6, 437-441.	1.6	2
245	The Impacts of Different Biological Treatments on the Transformation of Explosives Waste Contaminated Sludge. Molecules, 2021, 26, 4814.	3.8	2
246	Variation in the Structure and Composition of Bacterial Communities within Drinking Water Fountains in Melbourne, Australia. Water (Switzerland), 2022, 14, 908.	2.7	2
247	A molecular ecological approach to the detection and designation of the etiological agents of a model polymicrobial disease. Journal of Veterinary Diagnostic Investigation, 2013, 25, 467-472.	1.1	1
248	Bioremediation of Sludge Obtained from Oil/Biofuel Storage Tanks. Springer Protocols, 2015, , 265-279.	0.3	1
249	Factors Affecting Shellfish Quality in Terms of Faecal Contamination at Blakeney Point, East Anglia, UK. Water (Switzerland), 2021, 13, 3192.	2.7	1
250	Sewage. , 1964, , 35-53.		0
251	Reply to Comment on: 'Burning management and carbon sequestration of upland heather moorland in the UK'. Soil Research, 2010, 48, 104.	1.1	0
252	Improvement of Log Reduction Values Design Equations for Helminth Egg Management in Recycled Water. Water (Switzerland), 2021, 13, 3149.	2.7	0