

Carlos Garcia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|----------------|-----------------|
| 235 papers | 12,372 citations | 65 h-index | 100 g-index |
| 236 ext. papers | 13,714 ext. citations | 5.7 avg, IF | 6.42 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 235 | Past, present and future of soil quality indices: A biological perspective. <i>Geoderma</i> , 2008 , 147, 159-171 | 6.7 | 413 |
| 234 | Use of organic amendment as a strategy for saline soil remediation: Influence on the physical, chemical and biological properties of soil. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 1413-1421 | 7.5 | 347 |
| 233 | Potential use of dehydrogenase activity as an index of microbial activity in degraded soils. <i>Communications in Soil Science and Plant Analysis</i> , 1997 , 28, 123-134 | 1.5 | 345 |
| 232 | Soil microbial activity after restoration of a semiarid soil by organic amendments. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 463-469 | 7.5 | 258 |
| 231 | Application of fresh and composted organic wastes modifies structure, size and activity of soil microbial community under semiarid climate. <i>Applied Soil Ecology</i> , 2008 , 40, 318-329 | 5 | 231 |
| 230 | Microbiological degradation index of soils in a semiarid climate. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 3463-3473 | 7.5 | 229 |
| 229 | Microbial activity in soils under mediterranean environmental conditions. <i>Soil Biology and Biochemistry</i> , 1994 , 26, 1185-1191 | 7.5 | 216 |
| 228 | Soil microbial activity as a biomarker of degradation and remediation processes. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1877-1883 | 7.5 | 182 |
| 227 | Chemical and biochemical characterisation of biochar-blended composts prepared from poultry manure. <i>Bioresource Technology</i> , 2012 , 110, 396-404 | 11 | 180 |
| 226 | Effect of hydrocarbon pollution on the microbial properties of a sandy and a clay soil. <i>Chemosphere</i> , 2007 , 66, 1863-71 | 8.4 | 166 |
| 225 | Severe drought conditions modify the microbial community structure, size and activity in amended and unamended soils. <i>Soil Biology and Biochemistry</i> , 2012 , 50, 167-173 | 7.5 | 161 |
| 224 | Hydrolase activities, microbial biomass and bacterial community in a soil after long-term amendment with different composts. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 3443-3452 | 7.5 | 159 |
| 223 | Soil restoration using composted plant residues: Effects on soil properties. <i>Soil and Tillage Research</i> , 2009 , 102, 109-117 | 6.5 | 157 |
| 222 | Biochar influences the microbial community structure during manure composting with agricultural wastes. <i>Science of the Total Environment</i> , 2012 , 416, 476-81 | 10.2 | 152 |
| 221 | Changes in the microbial activity of an arid soil amended with urban organic wastes. <i>Biology and Fertility of Soils</i> , 1997 , 24, 429-434 | 6.1 | 146 |
| 220 | Short-term effect of wildfire on the chemical, biochemical and microbiological properties of Mediterranean pine forest soils. <i>Biology and Fertility of Soils</i> , 1997 , 25, 109-116 | 6.1 | 144 |
| 219 | Influence of salinity on the biological and biochemical activity of a calciorthird soil. <i>Plant and Soil</i> , 1996 , 178, 255-263 | 4.2 | 144 |

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|-----|---|-----|-----|
| 218 | Ability of different plant species to promote microbiological processes in semiarid soil. <i>Geoderma</i> , 2005 , 124, 193-202 | 6.7 | 135 |
| 217 | Growth, yield and solute content of barley in soils treated with sewage sludge under semiarid Mediterranean conditions. <i>Field Crops Research</i> , 2005 , 94, 224-237 | 5.5 | 132 |
| 216 | Enzymatic activities in an arid soil amended with urban organic wastes: Laboratory experiment. <i>Bioresource Technology</i> , 1998 , 64, 131-138 | 11 | 131 |
| 215 | Application of two organic amendments on soil restoration: effects on the soil biological properties. <i>Journal of Environmental Quality</i> , 2006 , 35, 1010-7 | 3.4 | 131 |
| 214 | Effects of a cadmium-contaminated sewage sludge compost on dynamics of organic matter and microbial activity in an arid soil. <i>Biology and Fertility of Soils</i> , 1999 , 28, 230-237 | 6.1 | 131 |
| 213 | No-tillage, crop residue additions, and legume cover cropping effects on soil quality characteristics under maize in Patzcuaro watershed (Mexico). <i>Soil and Tillage Research</i> , 2003 , 72, 65-73 | 6.5 | 129 |
| 212 | Effect of plant cover decline on chemical and microbiological parameters under Mediterranean climate. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 635-642 | 7.5 | 123 |
| 211 | Root growth promotion by humic acids from composted and non-composted urban organic wastes. <i>Plant and Soil</i> , 2012 , 353, 209-220 | 4.2 | 122 |
| 210 | Study on water extract of sewage sludge composts. <i>Soil Science and Plant Nutrition</i> , 1991 , 37, 399-408 | 1.6 | 118 |
| 209 | Bioremediation of oil refinery sludge by landfarming in semiarid conditions: influence on soil microbial activity. <i>Environmental Research</i> , 2005 , 98, 185-95 | 7.9 | 115 |
| 208 | Composting anaerobic and aerobic sewage sludges using two proportions of sawdust. <i>Waste Management</i> , 2007 , 27, 1317-27 | 8.6 | 112 |
| 207 | Biochemical Parameters in Soils Regenerated By the Addition of Organic Wastes. <i>Waste Management and Research</i> , 1994 , 12, 457-466 | 4 | 109 |
| 206 | A study of biochemical parameters of composted and fresh municipal wastes. <i>Bioresource Technology</i> , 1993 , 44, 17-23 | 11 | 104 |
| 205 | Lasting microbiological and biochemical effects of the addition of municipal solid waste to an arid soil. <i>Biology and Fertility of Soils</i> , 1999 , 30, 1-6 | 6.1 | 102 |
| 204 | A full-scale study of treatment of pig slurry by composting: kinetic changes in chemical and microbial properties. <i>Waste Management</i> , 2006 , 26, 1108-18 | 8.6 | 101 |
| 203 | Improvement of rhizosphere aggregate stability of afforested semiarid plant species subjected to mycorrhizal inoculation and compost addition. <i>Geoderma</i> , 2002 , 108, 133-144 | 6.7 | 100 |
| 202 | Evaluation of the maturity of municipal waste compost using simple chemical parameters. <i>Communications in Soil Science and Plant Analysis</i> , 1992 , 23, 1501-1512 | 1.5 | 98 |
| 201 | The ecological and physiological responses of the microbial community from a semiarid soil to hydrocarbon contamination and its bioremediation using compost amendment. <i>Journal of Proteomics</i> , 2016 , 135, 162-169 | 3.9 | 96 |

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|-----|---|------|----|
| 200 | The active microbial diversity drives ecosystem multifunctionality and is physiologically related to carbon availability in Mediterranean semi-arid soils. <i>Molecular Ecology</i> , 2016 , 25, 4660-73 | 5.7 | 96 |
| 199 | Toxic effect of cadmium and nickel on soil enzymes and the influence of adding sewage sludge. <i>European Journal of Soil Science</i> , 2003 , 54, 377-386 | 3.4 | 94 |
| 198 | Differential sensitivity of total and active soil microbial communities to drought and forest management. <i>Global Change Biology</i> , 2017 , 23, 4185-4203 | 11.4 | 89 |
| 197 | Soil restoration with organic amendments: linking cellular functionality and ecosystem processes. <i>Scientific Reports</i> , 2015 , 5, 15550 | 4.9 | 88 |
| 196 | Soil metaproteomics: a review of an emerging environmental science. Significance, methodology and perspectives. <i>European Journal of Soil Science</i> , 2009 , 60, 845-859 | 3.4 | 88 |
| 195 | Pathogenic bacteria and mineral N in soils following the land spreading of biogas digestates and fresh manure. <i>Applied Soil Ecology</i> , 2011 , 49, 18-25 | 5 | 87 |
| 194 | Aggregate stability changes after organic amendment and mycorrhizal inoculation in the afforestation of a semiarid site with <i>Pinus halepensis</i> . <i>Applied Soil Ecology</i> , 2002 , 19, 199-208 | 5 | 86 |
| 193 | Persistence of immobilised and total urease and phosphatase activities in a soil amended with organic wastes. <i>Bioresource Technology</i> , 2002 , 82, 73-8 | 11 | 85 |
| 192 | Biological and biochemical indicators in derelict soils subject to erosion. <i>Soil Biology and Biochemistry</i> , 1997 , 29, 171-177 | 7.5 | 82 |
| 191 | Influence of one or two successive annual applications of organic fertilisers on the enzyme activity of a soil under barley cultivation. <i>Bioresource Technology</i> , 2001 , 79, 147-54 | 11 | 81 |
| 190 | Characterization of Urban Wastes According To Fertility and Phytotoxicity Parameters. <i>Waste Management and Research</i> , 1997 , 15, 103-112 | 4 | 79 |
| 189 | Long-term effect of municipal solid waste amendment on microbial abundance and humus-associated enzyme activities under semiarid conditions. <i>Microbial Ecology</i> , 2008 , 55, 651-61 | 4.4 | 79 |
| 188 | Comparison of fresh and composted organic waste in their efficacy for the improvement of arid soil quality. <i>Bioresource Technology</i> , 1999 , 68, 255-264 | 11 | 78 |
| 187 | Microbial communities involved in the bioremediation of an aged recalcitrant hydrocarbon polluted soil by using organic amendments. <i>Bioresource Technology</i> , 2010 , 101, 6916-23 | 11 | 77 |
| 186 | The ecological dose value (ED50) for assessing Cd toxicity on ATP content and dehydrogenase and urease activities of soil. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 483-489 | 7.5 | 77 |
| 185 | Soil microbial community under a nurse-plant species changes in composition, biomass and activity as the nurse grows. <i>Soil Biology and Biochemistry</i> , 2013 , 64, 139-146 | 7.5 | 76 |
| 184 | Changes in Microbial Activity after Abandonment of Cultivation in a Semiarid Mediterranean Environment. <i>Journal of Environmental Quality</i> , 1997 , 26, 285-292 | 3.4 | 76 |
| 183 | Soil agro-ecological management: Fertirrigation and vermicompost treatments. <i>Bioresource Technology</i> , 1997 , 59, 199-206 | 11 | 76 |

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|-----|---|-----|----|
| 182 | Microbiological activity in a soil 15 years after its devegetation. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 2503-2507 | 7.5 | 74 |
| 181 | Nitrogen mineralisation potential in calcareous soils amended with sewage sludge. <i>Bioresource Technology</i> , 2002 , 83, 213-9 | 11 | 74 |
| 180 | Abiotic stress tolerance and competition-related traits underlie phylogenetic clustering in soil bacterial communities. <i>Ecology Letters</i> , 2014 , 17, 1191-201 | 10 | 73 |
| 179 | Changes in ATP content, enzyme activity and inorganic nitrogen species during composting of organic wastes. <i>Canadian Journal of Soil Science</i> , 1992 , 72, 243-253 | 1.4 | 73 |
| 178 | Use of compost as an alternative to conventional inorganic fertilizers in intensive lettuce (<i>Lactuca sativa</i> L.) crops Effects on soil and plant. <i>Soil and Tillage Research</i> , 2016 , 160, 14-22 | 6.5 | 73 |
| 177 | The long-term effects of the management of a forest soil on its carbon content, microbial biomass and activity under a semi-arid climate. <i>Applied Soil Ecology</i> , 2007 , 37, 53-62 | 5 | 72 |
| 176 | Burning fire-prone Mediterranean shrublands: immediate changes in soil microbial community structure and ecosystem functions. <i>Microbial Ecology</i> , 2012 , 64, 242-55 | 4.4 | 71 |
| 175 | Adaptation of methanogenic communities to the cofermentation of cattle excreta and olive mill wastes at 37 degrees C and 55 degrees C. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 6564-71 | 4.8 | 71 |
| 174 | Changes in carbon fractions during composting and maturation of organic wastes. <i>Environmental Management</i> , 1991 , 15, 433-439 | 3.1 | 69 |
| 173 | Metaproteomics of soils from semiarid environment: functional and phylogenetic information obtained with different protein extraction methods. <i>Journal of Proteomics</i> , 2014 , 101, 31-42 | 3.9 | 68 |
| 172 | Phylogenetic and functional changes in the microbial community of long-term restored soils under semiarid climate. <i>Soil Biology and Biochemistry</i> , 2013 , 65, 12-21 | 7.5 | 68 |
| 171 | Soil Bioremediation: Combination of Earthworms and Compost for the Ecological Remediation of a Hydrocarbon Polluted Soil. <i>Water, Air, and Soil Pollution</i> , 2006 , 177, 383-397 | 2.6 | 65 |
| 170 | Transference of heavy metals from a calcareous soil amended with sewage-sludge compost to barley plants. <i>Bioresource Technology</i> , 1996 , 55, 251-258 | 11 | 65 |
| 169 | Resistance and resilience of the soil microbial biomass to severe drought in semiarid soils: The importance of organic amendments. <i>Applied Soil Ecology</i> , 2011 , 50, 27-27 | 5 | 64 |
| 168 | Application of composted sewage sludges contaminated with heavy metals to an agricultural soil. <i>Soil Science and Plant Nutrition</i> , 1997 , 43, 565-573 | 1.6 | 64 |
| 167 | Organic amendment and mycorrhizal inoculation as a practice in afforestation of soils with <i>Pinus halepensis</i> Miller: effect on their microbial activity. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1173-1181 | 7.5 | 62 |
| 166 | Combined effects of reduced irrigation and water quality on the soil microbial community of a citrus orchard under semi-arid conditions. <i>Soil Biology and Biochemistry</i> , 2017 , 104, 226-237 | 7.5 | 61 |
| 165 | Effects of atrazine on microbial activity in semiarid soil. <i>Applied Soil Ecology</i> , 2007 , 35, 120-127 | 5 | 61 |

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|-----|--|------|----|
| 164 | Stimulation of barley growth and nutrient absorption by humic substances originating from various organic materials. <i>Bioresource Technology</i> , 1996 , 57, 251-257 | 11 | 61 |
| 163 | Do plant clumps constitute microbial hotspots in semiarid Mediterranean patchy landscapes?. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 1047-1054 | 7.5 | 60 |
| 162 | Bioremediation by composting of heavy oil refinery sludge in semiarid conditions. <i>Biodegradation</i> , 2006 , 17, 251-61 | 4.1 | 60 |
| 161 | Dissipation rates of cyprodinil and fludioxonil in lettuce and table grape in the field and under cold storage conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 4708-11 | 5.7 | 60 |
| 160 | Towards a more sustainable fertilization: Combined use of compost and inorganic fertilization for tomato cultivation. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 196, 178-184 | 5.7 | 59 |
| 159 | Revegetation in Semiarid Zones: Influence of Terracing and Organic Refuse on Microbial Activity. <i>Soil Science Society of America Journal</i> , 1998 , 62, 670-676 | 2.5 | 58 |
| 158 | Can the labile carbon contribute to carbon immobilization in semiarid soils? Priming effects and microbial community dynamics. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 892-902 | 7.5 | 57 |
| 157 | Application of different organic amendments in a gasoline contaminated soil: effect on soil microbial properties. <i>Bioresource Technology</i> , 2008 , 99, 2872-80 | 11 | 57 |
| 156 | Molecular and physiological bacterial diversity of a semi-arid soil contaminated with different levels of formulated atrazine. <i>Applied Soil Ecology</i> , 2006 , 34, 93-102 | 5 | 57 |
| 155 | Plant availability of heavy metals in a soil amended with a high dose of sewage sludge under drought conditions. <i>Biology and Fertility of Soils</i> , 2004 , 40, 291-299 | 6.1 | 57 |
| 154 | Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , 2019 , 10, 3481 | 17.4 | 56 |
| 153 | Organic Amendment Based on Fresh and Composted Beet Vinasse. <i>Soil Science Society of America Journal</i> , 2006 , 70, 900-908 | 2.5 | 56 |
| 152 | Toxicity of cadmium to soil microbial activity: effect of sewage sludge addition to soil on the ecological dose. <i>Applied Soil Ecology</i> , 2002 , 21, 149-158 | 5 | 56 |
| 151 | Evaluation of urban wastes for agricultural use. <i>Soil Science and Plant Nutrition</i> , 1996 , 42, 105-111 | 1.6 | 56 |
| 150 | Changes in organic matter composition during composting of two digested sewage sludges. <i>Waste Management</i> , 2006 , 26, 1370-6 | 8.6 | 55 |
| 149 | Surface and subsurface organic carbon, microbial biomass and activity in a forest soil sequence. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 2233-2243 | 7.5 | 54 |
| 148 | Biopesticide effect of green compost against fusarium wilt on melon plants. <i>Journal of Applied Microbiology</i> , 2005 , 98, 845-54 | 4.7 | 54 |
| 147 | Hydrolases in the organic matter fractions of sewage sludge: Changes with composting. <i>Bioresource Technology</i> , 1993 , 45, 47-52 | 11 | 53 |

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|-----|--|-----|----|
| 146 | In situ Vermicomposting of biological sludges and impacts on soil quality. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 1015-1024 | 7.5 | 52 |
| 145 | The influence of composting and maturation processes on the heavy-metal extractability from some organic wastes. <i>Biological Wastes</i> , 1990 , 31, 291-301 | | 50 |
| 144 | Soil amendments with organic wastes reduce the toxicity of nickel to soil enzyme activities. <i>European Journal of Soil Biology</i> , 2008 , 44, 129-140 | 2.9 | 49 |
| 143 | Effectiveness of municipal waste compost and its humic fraction in suppressing <i>Pythium ultimum</i> . <i>Microbial Ecology</i> , 2002 , 44, 59-68 | 4.4 | 49 |
| 142 | Soil organic carbon buffers heavy metal contamination on semiarid soils: Effects of different metal threshold levels on soil microbial activity. <i>European Journal of Soil Biology</i> , 2009 , 45, 220-228 | 2.9 | 48 |
| 141 | Effect of water deficit on microbial characteristics in soil amended with sewage sludge or inorganic fertilizer under laboratory conditions. <i>Bioresource Technology</i> , 2007 , 98, 29-37 | 11 | 48 |
| 140 | Influence of orientation, vegetation and season on soil microbial and biochemical characteristics under semiarid conditions. <i>Applied Soil Ecology</i> , 2008 , 38, 62-70 | 5 | 47 |
| 139 | Phytotoxicity due to the agricultural use of urban wastes. Germination experiments. <i>Journal of the Science of Food and Agriculture</i> , 1992 , 59, 313-319 | 4.3 | 47 |
| 138 | Effect of composting on sewage sludges contaminated with heavy metals. <i>Bioresource Technology</i> , 1995 , 53, 13-19 | 11 | 45 |
| 137 | The role of lignin and cellulose in the carbon-cycling of degraded soils under semiarid climate and their relation to microbial biomass. <i>Soil Biology and Biochemistry</i> , 2014 , 75, 152-160 | 7.5 | 44 |
| 136 | Biochemical and chemical-structural characterization of different organic materials used as manures. <i>Bioresource Technology</i> , 1996 , 57, 201-207 | 11 | 44 |
| 135 | Characterization of humic acids from uncomposted and composted sewage sludge by degradative and non-degradative techniques. <i>Bioresource Technology</i> , 1992 , 41, 53-57 | 11 | 44 |
| 134 | The impacts of organic amendments: Do they confer stability against drought on the soil microbial community?. <i>Soil Biology and Biochemistry</i> , 2017 , 113, 173-183 | 7.5 | 43 |
| 133 | Effects of biosolarization as methyl bromide alternative for <i>Meloidogyne incognita</i> control on quality of soil under pepper. <i>Biology and Fertility of Soils</i> , 2008 , 45, 37-44 | 6.1 | 43 |
| 132 | Effects of organic amendments on soil carbon fractions, enzyme activity and humus-enzyme complexes under semi-arid conditions. <i>European Journal of Soil Biology</i> , 2012 , 53, 94-102 | 2.9 | 42 |
| 131 | Application of two beet vinasse forms in soil restoration: Effects on soil properties in an arid environment in southern Spain. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 119, 289-298 | 5.7 | 42 |
| 130 | Addition of Urban Waste to Semiarid Degraded Soil: Long-term Effect. <i>Pedosphere</i> , 2007 , 17, 557-567 | 5 | 42 |
| 129 | Proteomic analysis of enzyme production by <i>Bacillus licheniformis</i> using different feather wastes as the sole fermentation media. <i>Enzyme and Microbial Technology</i> , 2014 , 57, 1-7 | 3.8 | 41 |

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|-----|---|------|----|
| 128 | The influence of composting on the fertilizing value of an aerobic sewage sludge. <i>Plant and Soil</i> , 1991 , 136, 269-272 | 4.2 | 41 |
| 127 | Soil aggregation in a semiarid soil amended with composted and non-composted sewage sludge: A field experiment. <i>Geoderma</i> , 2014 , 219-220, 24-31 | 6.7 | 39 |
| 126 | A role for biotic filtering in driving phylogenetic clustering in soil bacterial communities. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1346-1355 | 6.1 | 39 |
| 125 | The combination of quarry restoration strategies in semiarid climate induces different responses in biochemical and microbiological soil properties. <i>Applied Soil Ecology</i> , 2016 , 107, 33-47 | 5 | 38 |
| 124 | <i>Pinus halepensis</i> Mill. plantations did not restore organic carbon, microbial biomass and activity levels in a semi-arid Mediterranean soil. <i>Applied Soil Ecology</i> , 2007 , 36, 107-115 | 5 | 37 |
| 123 | A strategy for marginal semiarid degraded soil restoration: A sole addition of compost at a high rate. A five-year field experiment. <i>Soil Biology and Biochemistry</i> , 2015 , 89, 61-71 | 7.5 | 36 |
| 122 | Agricultural use of leachates obtained from two different vermicomposting processes. <i>Bioresource Technology</i> , 2008 , 99, 6228-32 | 11 | 36 |
| 121 | Plant phylodiversity enhances soil microbial productivity in facilitation-driven communities. <i>Oecologia</i> , 2014 , 174, 909-20 | 2.9 | 35 |
| 120 | Long-term suppression of <i>Pythium ultimum</i> in arid soil using fresh and composted municipal wastes. <i>Biology and Fertility of Soils</i> , 2000 , 30, 478-484 | 6.1 | 35 |
| 119 | What nurse shrubs can do for barren soils: rapid productivity shifts associated with a 40 years ontogenetic gradient. <i>Plant and Soil</i> , 2015 , 388, 197-209 | 4.2 | 34 |
| 118 | Benefactor and allelopathic shrub species have different effects on the soil microbial community along an environmental severity gradient. <i>Soil Biology and Biochemistry</i> , 2015 , 88, 48-57 | 7.5 | 33 |
| 117 | Role of amendments on N cycling in Mediterranean abandoned semiarid soils. <i>Applied Soil Ecology</i> , 2009 , 41, 195-205 | 5 | 33 |
| 116 | Evaluation of the organic matter composition of raw and composted municipal wastes. <i>Soil Science and Plant Nutrition</i> , 1993 , 39, 99-108 | 1.6 | 33 |
| 115 | Bioremediation of soil degraded by sewage sludge: effects on soil properties and erosion losses. <i>Environmental Management</i> , 2003 , 31, 741-7 | 3.1 | 32 |
| 114 | Native soil organic matter conditions the response of microbial communities to organic inputs with different stability. <i>Geoderma</i> , 2017 , 295, 1-9 | 6.7 | 31 |
| 113 | Fire modifies the phylogenetic structure of soil bacterial co-occurrence networks. <i>Environmental Microbiology</i> , 2017 , 19, 317-327 | 5.2 | 31 |
| 112 | Carbon mineralization in an arid soil amended with organic wastes of varying degrees of stability. <i>Communications in Soil Science and Plant Analysis</i> , 1998 , 29, 835-846 | 1.5 | 31 |
| 111 | Soil microbial diversity-biomass relationships are driven by soil carbon content across global biomes. <i>ISME Journal</i> , 2021 , 15, 2081-2091 | 11.9 | 31 |

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|-----|--|------|----|
| 110 | Phosphatase and Glucosidase activities in humic substances from animal wastes. <i>Bioresource Technology</i> , 1995 , 53, 79-87 | 11 | 30 |
| 109 | The effects of fresh and stabilized pruning wastes on the biomass, structure and activity of the soil microbial community in a semiarid climate. <i>Applied Soil Ecology</i> , 2015 , 89, 1-9 | 5 | 29 |
| 108 | Boron in soil: The impacts on the biomass, composition and activity of the soil microbial community. <i>Science of the Total Environment</i> , 2019 , 685, 564-573 | 10.2 | 28 |
| 107 | Behavior of oxyfluorfen in soils amended with different sources of organic matter. Effects on soil biology. <i>Journal of Hazardous Materials</i> , 2014 , 273, 207-14 | 12.8 | 28 |
| 106 | Biological and Biochemical Quality of a Semiarid Soil after Induced Devegetation. <i>Journal of Environmental Quality</i> , 1997 , 26, 1116-1122 | 3.4 | 28 |
| 105 | Variation in some chemical parameters and organic matter in soils regenerated by the addition of municipal solid waste. <i>Environmental Management</i> , 1992 , 16, 763-768 | 3.1 | 28 |
| 104 | Characterisation and evaluation of humic acids extracted from urban waste as liquid fertilisers. <i>Journal of the Science of Food and Agriculture</i> , 1997 , 75, 481-488 | 4.3 | 27 |
| 103 | Bioremediation of Sewage Sludge by Composting. <i>Communications in Soil Science and Plant Analysis</i> , 2003 , 34, 957-971 | 1.5 | 27 |
| 102 | Deforestation fosters bacterial diversity and the cyanobacterial community responsible for carbon fixation processes under semiarid climate: a metaproteomics study. <i>Applied Soil Ecology</i> , 2015 , 93, 65-67 | 5 | 26 |
| 101 | Field trial on removal of petroleum-hydrocarbon pollutants using a microbial consortium for bioremediation and rhizoremediation. <i>Environmental Microbiology Reports</i> , 2015 , 7, 85-94 | 3.7 | 26 |
| 100 | Ecological and functional adaptations to water management in a semiarid agroecosystem: a soil metaproteomics approach. <i>Scientific Reports</i> , 2017 , 7, 10221 | 4.9 | 26 |
| 99 | Comparison of humic acids derived from city refuse with more developed humic acids. <i>Soil Science and Plant Nutrition</i> , 1992 , 38, 339-346 | 1.6 | 26 |
| 98 | When drought meets forest management: Effects on the soil microbial community of a Holm oak forest ecosystem. <i>Science of the Total Environment</i> , 2019 , 662, 276-286 | 10.2 | 25 |
| 97 | Study of the lipidic and humic fractions from organic wastes before and after the composting process. <i>Science of the Total Environment</i> , 1989 , 81-82, 551-560 | 10.2 | 25 |
| 96 | The effects of struvite and sewage sludge on plant yield and the microbial community of a semiarid Mediterranean soil. <i>Geoderma</i> , 2019 , 337, 1051-1057 | 6.7 | 25 |
| 95 | Utilization of Vermicomposts in Soil Restoration: Effects on Soil Biological Properties. <i>Soil Science Society of America Journal</i> , 2010 , 74, 525-532 | 2.5 | 24 |
| 94 | Kinetics of phosphatase activity in organic wastes. <i>Soil Biology and Biochemistry</i> , 1993 , 25, 561-565 | 7.5 | 24 |
| 93 | Possible Uses for Sludge from Drinking Water Treatment Plants. <i>Journal of Environmental Engineering, ASCE</i> , 2017 , 143, 04016088 | 2 | 23 |

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|----|--|------|----|
| 92 | Response of soil microbial activity and biodiversity in soils polluted with different concentrations of cypermethrin insecticide. <i>Archives of Environmental Contamination and Toxicology</i> , 2015 , 69, 8-19 | 3.2 | 22 |
| 91 | Bacterial community in semiarid hydrocarbon contaminated soils treated by aeration and organic amendments. <i>International Biodeterioration and Biodegradation</i> , 2014 , 94, 200-206 | 4.8 | 22 |
| 90 | Changes in soil biochemical and cracking properties induced by "living mulch" systems. <i>Canadian Journal of Soil Science</i> , 1997 , 77, 579-587 | 1.4 | 21 |
| 89 | Changes in the organic matter mineralization rates of an arid soil after amendment with organic wastes. <i>Arid Land Research and Management</i> , 1998 , 12, 63-72 | | 21 |
| 88 | New Eco-Friendly Polymeric-Coated Urea Fertilizers Enhanced Crop Yield in Wheat. <i>Agronomy</i> , 2020 , 10, 438 | 3.6 | 20 |
| 87 | Comparing the impacts of drip irrigation by freshwater and reclaimed wastewater on the soil microbial community of two citrus species. <i>Agricultural Water Management</i> , 2018 , 203, 53-62 | 5.9 | 20 |
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| 85 | Characterization of the microbial community in biological soil crusts dominated by <i>Fulgensia desertorum</i> (Tomin) Poelt and <i>Squammarina cartilaginea</i> (With.) P. James and in the underlying soil. <i>Soil Biology and Biochemistry</i> , 2014 , 76, 70-79 | 7.5 | 20 |
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