

Pilar Castro-Diez

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

5,641
citations

109321

35
h-index

82547

72
g-index

91
all docs

91
docs citations

91
times ranked

7445
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The plant traits that drive ecosystems: Evidence from three continents. <i>Journal of Vegetation Science</i> , 2004, 15, 295-304. | 2.2 | 1,198 |
| 2 | Seedling Growth, Allocation and Leaf Attributes in a Wide Range of Woody Plant Species and Types. <i>Journal of Ecology</i> , 1996, 84, 755. | 4.0 | 327 |
| 3 | Is leaf dry matter content a better predictor of soil fertility than specific leaf area?. <i>Annals of Botany</i> , 2011, 108, 1337-1345. | 2.9 | 219 |
| 4 | Developmental changes in mesophyll diffusion conductance and photosynthetic capacity under different light and water availabilities in <i>Populus tremula</i> : how structure constrains function. <i>Plant, Cell and Environment</i> , 2012, 35, 839-856. | 5.7 | 203 |
| 5 | What explains variation in the impacts of exotic plant invasions on the nitrogen cycle? A meta-analysis. <i>Ecology Letters</i> , 2014, 17, 1-12. | 6.4 | 194 |
| 6 | What explains the invading success of the aquatic mud snail <i>Potamopyrgus antipodarum</i> (Hydrobiidae). <i>Trends in Ecology and Evolution</i> , 2010, 25, 175-178. | 2.0 | 175 |
| 7 | Multispecies comparison reveals that invasive and native plants differ in their traits but not in their plasticity. <i>Functional Ecology</i> , 2011, 25, 1248-1259. | 3.6 | 168 |
| 8 | Functional traits of woody plants: correspondence of species rankings between field adults and laboratory-grown seedlings?. <i>Journal of Vegetation Science</i> , 2003, 14, 311-322. | 2.2 | 158 |
| 9 | Global effects of non-native tree species on multiple ecosystem services. <i>Biological Reviews</i> , 2019, 94, 1477-1501. | 10.4 | 158 |
| 10 | Foliar nutrients in relation to growth, allocation and leaf traits in seedlings of a wide range of woody plant species and types. <i>Oecologia</i> , 1997, 111, 460. | 2.0 | 148 |
| 11 | Stomatal vs. genome size in angiosperms: the somatic tail wagging the genomic dog?. <i>Annals of Botany</i> , 2010, 105, 573-584. | 2.9 | 121 |
| 12 | Stem anatomy and relative growth rate in seedlings of a wide range of woody plant species and types. <i>Oecologia</i> , 1998, 116, 57-66. | 2.0 | 107 |
| 13 | Title is missing!. , 1998, 139, 103-112. | | 104 |
| 14 | Predicting invasiveness of Australian acacias on the basis of their native climatic affinities, life history traits and human use. <i>Diversity and Distributions</i> , 2011, 17, 934-945. | 4.1 | 96 |
| 15 | Relationships between phenology and the remobilization of nitrogen, phosphorus and potassium in branches of eight Mediterranean evergreens. <i>New Phytologist</i> , 2005, 168, 167-178. | 7.3 | 94 |
| 16 | Effects of exotic and native tree leaf litter on soil properties of two contrasting sites in the Iberian Peninsula. <i>Plant and Soil</i> , 2012, 350, 179-191. | 3.7 | 91 |
| 17 | Flowering phenology of invasive alien plant species compared with native species in three Mediterranean-type ecosystems. <i>Annals of Botany</i> , 2009, 103, 485-494. | 2.9 | 87 |
| 18 | The relative importance for plant invasiveness of trait means, and their plasticity and integration in a multivariate framework. <i>New Phytologist</i> , 2012, 195, 912-922. | 7.3 | 82 |

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|----|--|-----|-----------|
| 19 | Effects of exotic invasive trees on nitrogen cycling: a case study in Central Spain. <i>Biological Invasions</i> , 2009, 11, 1973-1986. | 2.4 | 77 |
| 20 | Leaf litter traits of invasive species slow down decomposition compared to Spanish natives: a broad phylogenetic comparison. <i>Oecologia</i> , 2010, 162, 781-790. | 2.0 | 77 |
| 21 | Stem xylem features in three <i>Quercus</i> (Fagaceae) species along a climatic gradient in NE Spain. <i>Trees - Structure and Function</i> , 1997, 12, 90-96. | 1.9 | 76 |
| 22 | How much will it cost to save grassland diversity?. <i>Biological Conservation</i> , 2005, 122, 263-273. | 4.1 | 76 |
| 23 | Linking the impacts of plant invasion on community functional structure and ecosystem properties. <i>Journal of Vegetation Science</i> , 2016, 27, 1233-1242. | 2.2 | 73 |
| 24 | Different flowering phenology of alien invasive species in Spain: evidence for the use of an empty temporal niche?. <i>Plant Biology</i> , 2009, 11, 803-811. | 3.8 | 71 |
| 25 | The exotic aquatic mud snail <i>Potamopyrgus antipodarum</i> (Hydrobiidae, Mollusca): state of the art of a worldwide invasion. <i>Aquatic Sciences</i> , 2012, 74, 375-383. | 1.5 | 70 |
| 26 | Stem xylem features in three. <i>Trees - Structure and Function</i> , 1997, 12, 90. | 1.9 | 69 |
| 27 | Environmental and developmental controls on specific leaf area are little modified by leaf allometry. <i>Functional Ecology</i> , 2008, 22, 565-576. | 3.6 | 68 |
| 28 | Leaf morphology and leaf chemical composition in three. <i>Trees - Structure and Function</i> , 1997, 11, 127. | 1.9 | 55 |
| 29 | Differential and interactive effects of temperature and photoperiod on budburst and carbon reserves in two co-occurring Mediterranean oaks. <i>Plant Biology</i> , 2009, 11, 142-151. | 3.8 | 54 |
| 30 | Title is missing!. <i>Plant Ecology</i> , 2003, 166, 117-129. | 1.6 | 49 |
| 31 | A multi-scale approach to identify invasion drivers and invaders'™ future dynamics. <i>Biological Invasions</i> , 2016, 18, 411-426. | 2.4 | 47 |
| 32 | Leaf morphology, leaf chemical composition and stem xylem characteristics in two <i>Pistacia</i> (Anacardiaceae) species along a climatic gradient. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 1998, 193, 195-202. | 1.2 | 46 |
| 33 | Comparison of leaf decomposition and macroinvertebrate colonization between exotic and native trees in a freshwater ecosystem. <i>Ecological Research</i> , 2010, 25, 647-653. | 1.5 | 46 |
| 34 | An indicator-based approach to analyse the effects of non-native tree species on multiple cultural ecosystem services. <i>Ecological Indicators</i> , 2018, 85, 48-56. | 6.3 | 42 |
| 35 | Seasonal carbon storage and growth in Mediterranean tree seedlings under different water conditions. <i>Tree Physiology</i> , 2009, 29, 1105-1116. | 3.1 | 39 |
| 36 | Growth versus storage: responses of Mediterranean oak seedlings to changes in nutrient and water availabilities. <i>Annals of Forest Science</i> , 2007, 64, 201-210. | 2.0 | 37 |

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|----|---|-----|-----------|
| 37 | Interactive effects of shade and irrigation on the performance of seedlings of three Mediterranean <i>Quercus</i> species. <i>Tree Physiology</i> , 2006, 26, 389-400. | 3.1 | 34 |
| 38 | Phenology of Mediterranean woody plants from NE Spain: Synchrony, seasonality, and relationships among phenophases. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2010, 205, 190-199. | 1.2 | 34 |
| 39 | Does the Gradualness of Leaf Shedding Govern Nutrient Resorption from Senescing Leaves in Mediterranean Woody Plants?. <i>Plant and Soil</i> , 2005, 278, 303-313. | 3.7 | 31 |
| 40 | Do the invasive trees, <i>Ailanthus altissima</i> and <i>Robinia pseudoacacia</i> , alter litterfall dynamics and soil properties of riparian ecosystems in Central Spain?. <i>Plant and Soil</i> , 2015, 396, 311-324. | 3.7 | 31 |
| 41 | Establishment Success of Coexisting Native and Exotic Trees Under an Experimental Gradient of Irradiance and Soil Moisture. <i>Environmental Management</i> , 2011, 48, 764-773. | 2.7 | 30 |
| 42 | Differences in nitrogen use strategies between native and exotic tree species: predicting impacts on invaded ecosystems. <i>Plant and Soil</i> , 2013, 363, 319-329. | 3.7 | 29 |
| 43 | Impacts of the alien trees <i>Ailanthus altissima</i> (Mill.) Swingle and <i>Robinia pseudoacacia</i> L. on soil nutrients and microbial communities. <i>Soil Biology and Biochemistry</i> , 2016, 96, 65-73. | 8.8 | 29 |
| 44 | Current and future conflicts between eucalypt plantations and high biodiversity areas in the Iberian Peninsula. <i>Journal for Nature Conservation</i> , 2018, 45, 107-117. | 1.8 | 29 |
| 45 | Effects of widespread non-native trees on regulating ecosystem services. <i>Science of the Total Environment</i> , 2021, 778, 146141. | 8.0 | 28 |
| 46 | Can the Life-History Strategy Explain the Success of the Exotic Trees <i>Ailanthus altissima</i> and <i>Robinia pseudoacacia</i> in Iberian Floodplain Forests?. <i>PLoS ONE</i> , 2014, 9, e100254. | 2.5 | 26 |
| 47 | Functional and phylogenetic consequences of plant invasion for coastal native communities. <i>Journal of Vegetation Science</i> , 2019, 30, 510-520. | 2.2 | 25 |
| 48 | A Global Review of <i>Ligustrum Lucidum</i> (OLEACEAE) Invasion. <i>Botanical Review</i> , The, 2020, 86, 93-118. | 3.9 | 25 |
| 49 | Simulated effects of herb competition on planted <i>Quercus faginea</i> seedlings in Mediterranean abandoned cropland. <i>Applied Vegetation Science</i> , 2003, 6, 213. | 1.9 | 24 |
| 50 | A functional method for classifying European grasslands for use in joint ecological and economic studies. <i>Basic and Applied Ecology</i> , 2005, 6, 119-131. | 2.7 | 24 |
| 51 | Summer water stress and shade alter bud size and budburst date in three mediterranean <i>Quercus</i> species. <i>Trees - Structure and Function</i> , 2010, 24, 89-97. | 1.9 | 24 |
| 52 | Phenological comparison between two co-occurring Mediterranean woody species differing in growth form. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2005, 200, 88-95. | 1.2 | 23 |
| 53 | Water relations of seedlings of three <i>Quercus</i> species: variations across and within species grown in contrasting light and water regimes. <i>Tree Physiology</i> , 2007, 27, 1011-1018. | 3.1 | 22 |
| 54 | Predicting climate change impacts on native and invasive tree species using radial growth and twenty-first century climate scenarios. <i>European Journal of Forest Research</i> , 2014, 133, 1073-1086. | 2.5 | 22 |

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|----|---|-----|-----------|
| 55 | Tolerance to air exposure of the New Zealand mudsnail <i>Potamopyrgus antipodarum</i> (Hydrobiidae,) Tj ETQq1 1 0.784314 rgBT ₂₂ /Overlo | 1.0 | 22 |
| 56 | Costs of Reproduction as Related to the Timing of Phenological Phases in the Dioecious Shrub <i>Pistacia lentiscus</i> L.. <i>Plant Biology</i> , 2006, 8, 103-111. | 3.8 | 20 |
| 57 | Environmental Constraints on Phenology and Internal Nutrient Cycling in the Mediterranean Winter- <i>Deciduous</i> Shrub <i>Amelanchier ovalis</i> Medicus. <i>Plant Biology</i> , 2005, 7, 182-189. | 3.8 | 19 |
| 58 | Allelopathic potentials of exotic invasive and native trees over coexisting understory species: the soil as modulator. <i>Plant Ecology</i> , 2017, 218, 579-594. | 1.6 | 18 |
| 59 | Effects of drought and shade on nitrogen cycling in the leaves and canopy of Mediterranean <i>Quercus</i> seedlings. <i>Plant and Soil</i> , 2009, 316, 45-56. | 3.7 | 16 |
| 60 | Functional traits analyses: Scaling-up from species to community level. <i>Plant and Soil</i> , 2012, 357, 9-12. | 3.7 | 16 |
| 61 | Relationships of climate, residence time, and biogeographical origin with the range sizes and species richness patterns of exotic plants in Great Britain. <i>Plant Ecology</i> , 2011, 212, 1901-1911. | 1.6 | 15 |
| 62 | Lack of superiority of invasive over co-occurring native riparian tree seedling species. <i>Biological Invasions</i> , 2014, 16, 269-281. | 2.4 | 15 |
| 63 | Assessing the influence of environmental and human factors on native and exotic species richness. <i>Acta Oecologica</i> , 2011, 37, 51-57. | 1.1 | 14 |
| 64 | Effects of litter mixing on litter decomposition and soil properties along simulated invasion gradients of non-native trees. <i>Plant and Soil</i> , 2019, 442, 79-96. | 3.7 | 13 |
| 65 | Allometric co-variation of xylem and stomata across diverse woody seedlings. <i>Plant, Cell and Environment</i> , 2020, 43, 2301-2310. | 5.7 | 13 |
| 66 | Integrating climate, water chemistry and propagule pressure indicators into aquatic species distribution models. <i>Ecological Indicators</i> , 2020, 112, 106060. | 6.3 | 13 |
| 67 | Effects of non-native riparian plants in riparian and fluvial ecosystems: a review for the Iberian Peninsula. , 2017, , 525-541. | | 13 |
| 68 | Predicting <i>Acacia</i> invasive success in South Africa on the basis of functional traits, native climatic niche and human use. <i>Biodiversity and Conservation</i> , 2011, 20, 2729-2743. | 2.6 | 12 |
| 69 | Assessing the drivers and the recruitment potential of <i>Eucalyptus globulus</i> in the Iberian Peninsula. <i>Forest Ecology and Management</i> , 2020, 466, 118147. | 3.2 | 12 |
| 70 | Contrasting secondary growth and water use efficiency patterns in native and exotic trees co-occurring in inner Spain riparian forests. <i>Forest Systems</i> , 2015, 24, 017. | 0.3 | 12 |
| 71 | Simulated effects of herb competition on planted <i>Quercus faginea</i> seedlings in Mediterranean abandoned cropland. <i>Applied Vegetation Science</i> , 2003, 6, 213-222. | 1.9 | 11 |
| 72 | Convergent xylem widening among organs across diverse woody seedlings. <i>New Phytologist</i> , 2019, 222, 1873-1882. | 7.3 | 11 |

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|----|--|-----|-----------|
| 73 | Does stream structure affect dispersal by water? A case study of the invasive tree <i>Ailanthus altissima</i> in Spain. <i>Management of Biological Invasions</i> , 2014, 5, 179-186. | 1.2 | 9 |
| 74 | Survival of an invasive aquatic snail to overland translocation in non-aquatic media: Implications for spreading. <i>Limnologia</i> , 2016, 57, 60-65. | 1.5 | 8 |
| 75 | Pollution Assessment of the Biobío River (Chile): Prioritization of Substances of Concern Under an Ecotoxicological Approach. <i>Environmental Management</i> , 2017, 59, 856-869. | 2.7 | 8 |
| 76 | The New Zealand mud snail <i>Potamopyrgus antipodarum</i> (J.E. Gray, 1853) (Tateidae, Mollusca) in the Iberian Peninsula: temporal patterns of distribution. <i>BiolInvasions Records</i> , 2019, 8, 287-300. | 1.1 | 7 |
| 77 | Management of invasive alien species in Spain: A bibliometric review. <i>NeoBiota</i> , 0, 70, 123-150. | 1.0 | 7 |
| 78 | Combined effects of land-use intensification and plant invasion on native communities. <i>Oecologia</i> , 2020, 192, 823-836. | 2.0 | 6 |
| 79 | Potential Germination Success of Exotic and Native Trees Coexisting in Central Spain Riparian Forests. <i>International Journal of Ecology</i> , 2016, 2016, 1-10. | 0.8 | 5 |
| 80 | Comparing the Sexual Reproductive Success of Two Exotic Trees Invading Spanish Riparian Forests vs. a Native Reference. <i>PLoS ONE</i> , 2016, 11, e0160831. | 2.5 | 5 |
| 81 | Changes in community functional structure and ecosystem properties along an invasion gradient of <i>Ligustrum lucidum</i> . <i>Journal of Vegetation Science</i> , 2021, 32, e13098. | 2.2 | 5 |
| 82 | Alteration of Nitrogen Cycling as a Result of Invasion. , 2017, , 49-62. | | 4 |
| 83 | Analysis of the riparian habitat invasion by three tree exotic species in Spain. <i>Ecosistemas</i> , 2014, 24, 18-28. | 0.4 | 4 |
| 84 | Effects of moderate shade and irrigation with eutrophicated water on the nitrogen economy of Mediterranean oak seedlings. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2008, 203, 243-253. | 1.2 | 3 |
| 85 | Effects of leaf litter extracts from four tree species on aquatic invertebrates: an ecotoxicological risk assessment approach. <i>Aquatic Ecology</i> , 2020, 54, 1155-1168. | 1.5 | 3 |
| 86 | Biotic, abiotic, and anthropogenic drivers of demographic performance of non-native <i>Eucalyptus</i> and <i>Pinus</i> species in forested areas of Spain. <i>Forest Ecology and Management</i> , 2022, 510, 120111. | 3.2 | 3 |
| 87 | Alien Plant Species: Environmental Risks in Agricultural and Agro-Forest Landscapes Under Climate Change. <i>Climate Change Management</i> , 2019, , 215-234. | 0.8 | 2 |
| 88 | Las invasiones biológicas y su impacto en los ecosistemas. <i>Ecosistemas</i> , 2014, 24, 1-3. | 0.4 | 2 |
| 89 | El caracol acuático neozelandés del cieno (<i>Potamopyrgus antipodarum</i>): impactos ecológicos y distribución de esta especie exótica en la península ibérica. <i>Ecosistemas</i> , 2014, 24, 52-58. | 0.4 | 2 |
| 90 | Integration of ecological impacts by invasive exotic plants: a methodological approach. <i>Ecosistemas</i> , 2014, 24, 12-17. | 0.4 | 1 |

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|----|---|-----|-----------|
| 91 | Functional traits and propagule pressure explain changes in the distribution and demography of non-native trees in Spain. <i>Journal of Vegetation Science</i> , 0, , . | 2.2 | 0 |