# Alfonso Valiente-Banuet

List of Publications by Year
in descending order



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|---|---|---|---|
| 80 papers | 6,730 citations | 71102 41 h-index | 64796 79 g-index |
| 80 all docs | 80 docs citations | 80 times ranked | 6580 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Beyond species loss: the extinction of ecological interactions in a changing world. Functional Ecology, 2015, 29, 299-307. | 3.6 | 619 |
| 2 | Do biotic interactions shape both sides of the humped-back model of species richness in plant communities?. Ecology Letters, 2006, 9, 767-773. | 6.4 | 517 |
| 3 | Shade as a Cause of the Association Between the Cactus Neobuxbaumia Tetetzo and the Nurse Plant Mimosa Luisana in the Tehuacan Valley, Mexico. Journal of Ecology, 1991, 79, 961. | 4.0 | 402 |
| 4 | Facilitation can increase the phylogenetic diversity of plant communities. Ecology Letters, 2007, 10, 1029-1036. | 6.4 | 307 |
| 5 | Evolutionary tradeoffs for nitrogen allocation to photosynthesis versus cell walls in an invasive plant. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1853-1856. | 7.1 | 275 |
| 6 | In situ Management and Domestication of Plants in Mesoamerica. Annals of Botany, 2007, 100, 1101-1115. | 2.9 | 259 |
| 7 | Modern Quaternary plant lineages promote diversity through facilitation of ancient Tertiary lineages. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16812-16817. | 7.1 | 238 |
| 8 | Ecological relationships between columnar cacti and nectar-feeding bats in Mexico. Journal of Tropical Ecology, 1996, 12, 103-119. | 1.1 | 201 |
| 9 | Spatial relationships between cacti and nurse shrubs in a semi-arid environment in central Mexico. Journal of Vegetation Science, 1991, 2, 15-20. | 2.2 | 186 |
| 10 | Recursos vegetales del valle de TehuacÃ¡n-Cuicatlan, MÃ©xico. Economic Botany, 2001, 55, 129-166. | 1.7 | 161 |
| 11 | Temporal shifts from facilitation to competition occur between closely related taxa. Journal of Ecology, 2008, 96, 489-494. | 4.0 | 149 |
| 12 | The Nested Assembly of Plant Facilitation Networks Prevents Species Extinctions. American Naturalist, 2008, 172, 751-760. | 2.1 | 147 |
| 13 | The network structure of plantâ€“arbuscular mycorrhizal fungi. New Phytologist, 2012, 194, 536-547. | 7.3 | 142 |
| 14 | Integrating novel chemical weapons and evolutionarily increased competitive ability in success of a tropical invader. New Phytologist, 2015, 205, 1350-1359. | 7.3 | 129 |
| 15 | Interaction between the cactusNeobuxbaumia tetetzoand the nurse shrubMimosa luisana. Journal of Vegetation Science, 1991, 2, 11-14. | 2.2 | 125 |
| 16 | Reproductive biology of Opuntia: A review. Journal of Arid Environments, 2006, 64, 549-585. | 2.4 | 123 |
| 17 | Volatile chemicals from leaf litter are associated with invasiveness of a Neotropical weed in Asia. Ecology, 2011, 92, 316-324. | 3.2 | 109 |
| 18 | The evolution of increased competitive ability, innate competitive advantages, and novel biochemical weapons act in concert for a tropical invader. New Phytologist, 2013, 197, 979-988. | 7.3 | 100 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Pollination biology of two columnar cacti (Neobuxbaumia mezcalaensis and Neobuxbaumia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf | 1.7 | 98 |
| 20 | Abiotic stress tolerance and competitionâ€related traits underlie phylogenetic clustering in soil bacterial communities. Ecology Letters, 2014, 17, 1191-1201. | 6.4 | 98 |
| 21 | Phylogenetic signatures of facilitation and competition in successional communities. Journal of Ecology, 2009, 97, 1171-1180. | 4.0 | 96 |
| 22 | Seasonal distribution of the long-nosed bat (Leptonycteris curasoae) in North America: does a generalized migration pattern really exist?. Journal of Biogeography, 1999, 26, 1065-1077. | 3.0 | 94 |
| 23 | Ethnobotany and domestication in Xoconochtli,Stenocereus stellatus (Cactaceae), in the TehuacÃ¡n Valley and La Mixteca Baja, MÃ©xico. Economic Botany, 1997, 51, 279-292. | 1.7 | 91 |
| 24 | â€˜Convergentâ€™ traits of mediterranean woody plants belong to pre-mediterranean lineages. Biological Journal of the Linnean Society, 2003, 78, 415-427. | 1.6 | 91 |
| 25 | THE ROLE OF SEED DISPERSERS IN THE POPULATION DYNAMICS OF THE COLUMNAR CACTUS NEOBUXBAUMIA TETETZO. Ecology, 2002, 83, 2617-2629. | 3.2 | 84 |
| 26 | Donâ€™t Diss Integration: A Comment on Ricklefsâ€™s Disintegrating Communities. American Naturalist, 2009, 174, 919-927. | 2.1 | 83 |
| 27 | Phylogenetic relatedness as a tool in restoration ecology: a meta-analysis. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1761-1767. | 2.6 | 82 |
| 28 | Plant Facilitation and Phylogenetics. Annual Review of Ecology, Evolution, and Systematics, 2013, 44, 347-366. | 8.3 | 82 |
| 29 | Plant facilitation occurs between species differing in their associated arbuscular mycorrhizal fungi. New Phytologist, 2012, 196, 835-844. | 7.3 | 80 |
| 30 | Pollination biology of two winter-blooming giant columnar cacti in the TehuacÃ¡n Valley, central Mexico. Journal of Arid Environments, 1997, 37, 331-341. | 2.4 | 76 |
| 31 | Neighborhood phylodiversity affects plant performance. Ecology, 2010, 91, 3656-3663. | 3.2 | 71 |
| 32 | Evolution of hydraulic traits in closely related species pairs from mediterranean and nonmediterranean environments of North America. New Phytologist, 2007, 176, 718-726. | 7.3 | 70 |
| 33 | A quicker return energy-use strategy by populations of a subtropical invader in the non-native range: a potential mechanism for the evolution of increased competitive ability. Journal of Ecology, 2011, 99, 1116-1123. | 4.0 | 66 |
| 34 | The relative contribution of abundance and phylogeny to the structure of plant facilitation networks. Oikos, 2011, 120, 1351-1356. | 2.7 | 65 |
| 35 | Evolution of <i>Polaskia chichipe</i> (Cactaceae) under domestication in the TehuacÃ¡n Valley, central Mexico: reproductive biology. American Journal of Botany, 2003, 90, 593-602. | 1.7 | 62 |
| 36 | Germination and early seedling growth of Tehuacan Valley cacti species: the role of soils and seed ingestion by dispersers on seedling growth. Journal of Arid Environments, 1998, 39, 21-31. | 2.4 | 56 |

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|---|---|---|---|
| 37 | Speciesâ€specificity of nurse plants for the establishment, survivorship, and growth of a columnar cactus. American Journal of Botany, 2010, 97, 1289-1295. | 1.7 | 51 |
| 38 | Pre-columbian soil erosion, persistent ecological changes, and collapse of a subsistence agricultural economy in the semi-arid TehuacÃ¡n Valley, Mexico's â€˜Cradle of Maizeâ€™. Journal of Arid Environments, 2001, 47, 47-75. | 2.4 | 50 |
| 39 | Human impacts on multiple ecological networks act synergistically to drive ecosystem collapse. Frontiers in Ecology and the Environment, 2013, 11, 408-413. | 4.0 | 46 |
| 40 | Diurnal and Nocturnal Pollination of Marginatocereus marginatus (Pachycereeae: Cactaceae) in Central Mexico. Annals of Botany, 2006, 97, 423-427. | 2.9 | 44 |
| 41 | Plant phylodiversity enhances soil microbial productivity in facilitation-driven communities. Oecologia, 2014, 174, 909-920. | 2.0 | 44 |
| 42 | Trait divergence and indirect interactions allow facilitation of congeneric species. Annals of Botany, 2012, 110, 1369-1376. | 2.9 | 43 |
| 43 | Paleoclimatic changes during the Late Pleistocene - Holocene in Laguna BabÃcora, near the Chihuahuan Desert, MÃ©xico. Canadian Journal of Earth Sciences, 1998, 35, 1168-1179. | 1.3 | 42 |
| 44 | Incorporating phylogenetic metrics to microbial coâ€occurrence networks based on amplicon sequences to discern community assembly processes. Molecular Ecology Resources, 2019, 19, 1552-1564. | 4.8 | 41 |
| 45 | Pollination biology of the columnar cactus Pachycereus pecten-aboriginum in north-western MÃ©xico. Journal of Arid Environments, 2004, 56, 117-127. | 2.4 | 40 |
| 46 | Ant diversity andÂ itsÂ relationship with vegetation andÂ soil factors inÂ anÂ alluvial fan ofÂ theÂ TehuacÃ¡n Valley, Mexico. Acta Oecologica, 2006, 29, 316-323. | 1.1 | 40 |
| 47 | Biotic interactions and the population dynamics of the long-lived columnar cactus <i>Neobuxbaumia tetetzo</i> in the TehuacÃ¡n Valley, Mexico. Canadian Journal of Botany, 1999, 77, 203-208. | 1.1 | 38 |
| 48 | Soil fungi promote nitrogen transfer among plants involved in long-lasting facilitative interactions. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 18, 45-51. | 2.7 | 37 |
| 49 | Geographic differentiation in the pollination system of the columnar cactus <i>Pachycereus pecten</i> â€<i>aboriginum</i>. American Journal of Botany, 2004, 91, 850-855. | 1.7 | 35 |
| 50 | Pollination biology of the hemiepiphytic cactus Hylocereus undatus in the TehuacÃ¡n Valley, Mexico. Journal of Arid Environments, 2007, 68, 1-8. | 2.4 | 35 |
| 51 | Seed dispersal by domestic goats in a semiarid thornscrub of Mexico. Journal of Arid Environments, 2008, 72, 1973-1976. | 2.4 | 34 |
| 52 | The phylogenetic structure of plant facilitation networks changes with competition. Journal of Ecology, 2010, 98, 1454-1461. | 4.0 | 34 |
| 53 | Nurse plants transfer more nitrogen to distantly related species. Ecology, 2017, 98, 1300-1310. | 3.2 | 33 |
| 54 | Reproductive Biology in Wild and Silvicultural Managed Populations of Escontria chiotilla (Cactaceae) in the TehuacÃ¡n Valley, Central Mexico. Genetic Resources and Crop Evolution, 2006, 53, 277-287. | 1.6 | 26 |

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|---|---|---|---|
| 55 | Vulnerabilidad de los sistemas de polinizaciÃ³n de cactÃ¡ceas columnares de MÃ©xico. Revista Chilena De Historia Natural, 2002, 75, 99. | 1.2 | 23 |
| 56 | Palynological evidence for Middle Miocene vegetation in the TehuacÃ¡n Formation of Puebla, Mexico. Palynology, 2014, 38, 1-27. | 1.5 | 23 |
| 57 | Mycorrhizal symbiosis increases the benefits of plant facilitative interactions. Ecography, 2019, 42, 447-455. | 4.5 | 23 |
| 58 | Evidences on the migratory movements of the nectar-feeding bat Leptonycteris curasoae in Mexico using random amplified polymorphic DNA (RAPD). Journal of Arid Environments, 2007, 68, 248-259. | 2.4 | 21 |
| 59 | Morphological variation and the process of domestication of Stenocereus stellatus (Cactaceae) in Central Mexico. American Journal of Botany, 1999, 86, 522-33. | 1.7 | 21 |
| 60 | Restoring phylogenetic diversity through facilitation. Restoration Ecology, 2016, 24, 449-455. | 2.9 | 19 |
| 61 | Processes underlying the effect of mycorrhizal symbiosis on plant-plant interactions. Fungal Ecology, 2019, 40, 98-106. | 1.6 | 19 |
| 62 | Plant facilitation through mycorrhizal symbiosis is stronger between distantly related plant species. New Phytologist, 2019, 224, 928-935. | 7.3 | 19 |
| 63 | Reproductive biology and the process of domestication of the columnar cactus Stenocereus Stellatus in Central Mexico. American Journal of Botany, 1999, 86, 534-42. | 1.7 | 19 |
| 64 | Functional and evolutionary correlations of steep leaf angles in the mexical shrubland. Oecologia, 2010, 163, 25-33. | 2.0 | 18 |
| 65 | Nurses experience reciprocal fitness benefits from their distantly related facilitated plants. Perspectives in Plant Ecology, Evolution and Systematics, 2014, 16, 228-235. | 2.7 | 18 |
| 66 | Evidence for phylogenetic correlation of plantâ€"AMF assemblages?. Annals of Botany, 2015, 115, 171-177. | 2.9 | 18 |
| 67 | Phenotypic structure of plant facilitation networks. Ecology Letters, 2021, 24, 509-519. | 6.4 | 16 |
| 68 | Mexical plant phenology: is it similar to Mediterranean communities?. Botanical Journal of the Linnean Society, 2002, 138, 297-303. | 1.6 | 15 |
| 69 | Facilitation and plant phenotypic evolution. Trends in Plant Science, 2021, 26, 913-923. | 8.8 | 13 |
| 70 | Facilitation allows plant coexistence in <scp>C</scp>uban serpentine soils. Plant Biology, 2014, 16, 711-716. | 3.8 | 12 |
| 71 | Fruit-Feeding Behavior of the Bats Leptonycteris curasoae and Choeronycteris mexicana in Flight Cage Experiments: Consequences for Dispersal of Columnar Cactus Seeds1. Biotropica, 2000, 32, 552. | 1.6 | 11 |
| 72 | Same nurse but different time: temporal divergence in the facilitation of plant lineages with contrasted functional syndromes. Functional Ecology, 2016, 30, 1854-1861. | 3.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 73 | The chaparral vegetation in Mexico undernonmediterranean climate: the convergence and Madrean-Tethyan hypothesesreconsidered. American Journal of Botany, 1998, 85, 1398-408. | 1.7 | 11 |
| 74 | Riparian Mesquite bushes are important for bird conservation in tropical arid Mexico. Journal of Arid Environments, 2008, 72, 1146-1163. | 2.4 | 10 |
| 75 | Nurse shrubs can receive water stored in the parenchyma of their facilitated columnar cacti. Journal of Arid Environments, 2019, 165, 10-15. | 2.4 | 9 |
| 76 | Fire and resprouting in Mediterranean ecosystems: insights from an external biogeographical region, the mexical shrubland. American Journal of Botany, 1999, 86, 1655-61. | 1.7 | 9 |
| 77 | Fungal phylogenetic diversity drives plant facilitation. Oecologia, 2016, 181, 533-541. | 2.0 | 8 |
| 78 | Does cladode inclination restrict microhabitat distribution for <i>Opuntia puberula</i> (Cactaceae)?. American Journal of Botany, 2005, 92, 700-708. | 1.7 | 7 |
| 79 | A nurse plant benefits from facilitative interactions through mycorrhizae. Plant Biology, 2019, 21, 670-676. | 3.8 | 7 |
| 80 | Mexical Shrubland. , 2020, , 532-545. | | 3 |