




Rodolfo Dirzo

Associate Dean, Doerr School of Sustainability, Bing Prof in Environmental Science, Professor of Earth System Science and Senior Fellow at the Woods Institute for the Environment

Biology

 Curriculum Vitae available Online

CONTACT INFORMATION

• Alternate Contact

Pamela Hung - Administrative Assistant

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Tel 650 736-8005

Bio

BIO

My scientific work examines the study of species interactions in tropical ecosystems from California, Latin America, and other tropical areas of the world. Recent research highlights the decline of animal life (“defaunation”), and how this affects ecosystem processes/services (e.g. disease regulation). I teach ecology, natural history, conservation biology, and biocultural diversity at undergraduate and graduate levels at Stanford, and conduct science education programs with underserved children in the Bay Area and our study sites. My lab includes undergrads, graduate students, postdocs, and visiting scholars from the US, and many other countries. I have co-authored the new Framework for K-12 Science Education.

ACADEMIC APPOINTMENTS

- Professor, Biology
- Professor, Earth System Science
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Co-Director, INOGO Program of the Woods Institute for the Environment, (2011- present)
- Associate Chair for Diversity and Inclusion, School of Earth, Energy and Environment, (2020- present)

HONORS AND AWARDS

- Pew Scholar in Conservation, The Pew Charitable Trust (1992)
- Outstanding Service Award: Teaching, Organization for Tropical Studies (2002)
- Member, Mexican Academy of Sciences (2003)
- Outstanding Researcher, Biology, National University of Mexico (2003)
- Presidential Award in Ecology, Secretary of Environment, Mexico (2003)
- Foreign Associate, US National Academy of Science (2004)
- Foreign Member, American Academy of Arts and Sciences (2004)

- Member, California Academy of Sciences (2008)
- Medal of Honor (Science), The State Congress, Morelos, Mexico (2015)
- Merit in Ecology (Research), The Ecological Society of Mexico (2015)
- Miriam Arnold Rollan Prize for Community Service, Stanford University (2016)
- Medal Alfonso L. Herrera: Distinguished Scientist, Universidad Autonoma de Puebla, Mexico (2017)
- Medal for Merit in Research and Education, International Association for Tropical Biology (ATBC) (2017)
- President Miguel Aleman Medal for outstanding work in ecology and environmental problems, Mexico City (2017)
- Medal Luis Cifuentes, Mexican Federation of Biologists, Area of Research Puerto Vallarta, Mexico (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Member, Turning Green (2021 - present)
- Board Member, Stop Extinction (2020 - present)
- Group member, Zoonotic Diseases Working Group of International Union of Biological Sciences (2020 - present)
- Committee member, Stanford Biology Diversity Equity and Inclusion (2020 - present)
- Committee member, Stanford Public Art Committee (2019 - present)
- Board Member, Stanford Breadth Governance Board (2019 - present)
- Board Member, Biological Sciences Curriculum Studies (2019 - present)
- Advisory Board, Stanford Bing Over Seas Program (2013 - present)
- Advisory Committee, Jasper Ridge Biological Preserve (2008 - present)

PROGRAM AFFILIATIONS

- Center for Latin American Studies

PROFESSIONAL EDUCATION

- B.Sc., University of Morelos, Mexico , Biology (1972)
- M.Sc., University of Wales , Ecology (1977)
- Ph.D., University of Wales , Ecology (1980)

COMMUNITY AND INTERNATIONAL WORK

- Plant-animal interactions, Mexico, Costa Rica, Amazonia

LINKS

- Dirzo Lab Website: <http://dirzolab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My interests are centered on the study of species interactions, trying to understand how the ecology and evolution of plants is affected by other living organisms, particularly animals (herbivores, pollinators, seed dispersal agents, and seed predators) and pathogens. My work is focused on tropical forest ecosystems, particularly in Latin America, particularly Mexico, Costa Rica and Amazonia, but I am also conducting similar studies in other ecosystems as well. More recently, I have been conducting research in East Africa (Kenya, Tanzania), looking at how anthropogenic impact affects ecological interactions between plants and animals.

In the field of conservation biology, I am interested in studying the consequences of anthropogenic impact on the disruption of ecological processes and ecosystem services, including the importance of species interactions in human disease regulation.

Finally, I have a major interest in environmental education and sharing of my experiences in ecology and conservation, with the general public and students of all levels.

PROJECTS

- Effect of Herbivores on Plant Diversity - National University of Mexico (UNAM)
- Effects of natural enemies (herbivorous animals and fungi) on the ecology of plants in tropical forest ecosystems - Stanford University, in collaboration with UNAM (Mexico), and other Brazilian institutions
- Anthropogenic impact on species interactions in tropical and temperate ecosystems - Stanford University
- Effects of biological enrichment on biodiversity and disease risk in oil palm plantations - Stanford University (Woods Institute)
- Effects of defaunation on ecosystem processes and services

Teaching

COURSES

2022-23

- Bio-Cultural Diversity and Community-Based Conservation in Oaxaca: OSPGEN 63 (Sum)
- Conservation Biology: A Latin American Perspective: BIO 144, BIO 234, HUMBIO 112 (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105B (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105B (Spr)
- Global Change in the Anthropocene: An Iberoamerican Perspective: OSPMADRD 10 (Aut)
- Sustainability and Civilization: BIO 35 (Win)

2021-22

- Conservation Biology: A Latin American Perspective: BIO 144, BIO 234, HUMBIO 112 (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105B (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105B (Spr)
- Global Change in Chile: OSPSANTG 58 (Win)
- ORNITHOLOGY: BIO 121, BIO 221 (Spr)
- Spanish in Science/Science in Spanish: BIO 208, EARTHSYS 207, LATINAM 207 (Spr)
- Understanding Restoration Ecology from the Lens of Restorative Justice: BIO 106 (Spr)

2020-21

- Conservation Biology: A Latin American Perspective: BIO 144, BIO 234, HUMBIO 112 (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105B, EARTHSYS 105B (Spr)
- ORNITHOLOGY: BIO 121, BIO 221 (Spr)

2019-20

- Conservation Biology: A Latin American Perspective: BIO 144, BIO 234, HUMBIO 112 (Spr)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: BIO 105B (Spr)

- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105A (Win)
- Ecology and Natural History of Jasper Ridge Biological Preserve: EARTHSYS 105B (Spr)
- ORNITHOLOGY: BIO 121 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Suchana Costa, Kelley Langhans, Suzanne Ou, Marius von Essen

Doctoral Dissertation Advisor (AC)

Luísa Genes, Chinmay Sonawane

Master's Program Advisor

Catherine Beck, Alan Cuevas, Samantha Faul, Xavier Gomez, Benjamin Hodder

Doctoral (Program)

Luísa Genes

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

Publications

PUBLICATIONS

- **Modeling multiple ecosystem services and beneficiaries of riparian reforestation in Costa Rica** *ECOSYSTEM SERVICES*
Langhans, K. E., Schmitt, R. P., Chaplin-Kramer, R., Anderson, C. B., Vargas Bolanos, C., Vargas Cabezas, F., Dirzo, R., Goldstein, J. A., Horangic, T., Miller Granados, C., Powell, T. M., Smith, J. R., Alvarado Quesada, et al
2022; 57
- **Circling the drain: the extinction crisis and the future of humanity.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Dirzo, R., Ceballos, G., Ehrlich, P. R.
2022; 377 (1857): 20210378
- **Broad-scale climate variation drives the dynamics of animal populations: a global multi-taxa analysis.** *Biological reviews of the Cambridge Philosophical Society*
Wan, X., Holyoak, M., Yan, C., Le Maho, Y., Dirzo, R., Krebs, C. J., Stenseth, N. C., Zhang, Z.
2022
- **Frugivore Population Biomass, but Not Density, Affect Seed Dispersal Interactions in a Hyper-Diverse Frugivory Network** *FRONTIERS IN ECOLOGY AND EVOLUTION*
Genes, L., Losapio, G., Donatti, C. I., Guimaraes Jr, P. R., Dirzo, R.
2022; 10
- **Predator-prey interactions of terrestrial invertebrates are determined by predator body size and species identity.** *Ecology*
Kuile, A. M., Apigo, A., Bui, A., DiFiore, B., Forbes, E. S., Lee, M., Orr, D., Preston, D. L., Behm, R., Bogar, T., Childress, J., Dirzo, R., Klope, et al
1800: e3634
- **Restoration of plant-animal interactions in terrestrial ecosystems** *BIOLOGICAL CONSERVATION*
Genes, L., Dirzo, R.
2022; 265
- **On the move: spatial ecology and habitat use of red fox in the Trans-Himalayan cold desert.** *PeerJ*
Reshamwala, H. S., Raina, P., Hussain, Z., Khan, S., Dirzo, R., Habib, B.
2022; 10: e13967
- **Rapid morphological change in a small mammal species after habitat fragmentation over the past half-century** *DIVERSITY AND DISTRIBUTIONS*

- Li, J., Dirzo, R., Wang, Y., Zeng, D., Liu, J., Ren, P., Zhong, L., Ding, P.
2021
- **A review of philopatry and dispersal in felids living in an anthropised world** Palavras-chave *MAMMAL REVIEW*
De oliveira, M. E., Saranholi, B. H., Dirzo, R., Galetti, P. M.
2021
 - **Differences in mutualistic or predatory interactions between tree and rodent species as revealed by using a double-duplex passive integrated transponder tagging technique** *ACTA OECOLOGICA-INTERNATIONAL JOURNAL OF ECOLOGY*
Gu, H., Yang, X., Dirzo, R., Zhang, Z.
2021; 112
 - **Phenotypic plasticity in plant defense across life stages: Inducibility, transgenerational induction, and transgenerational priming in wild radish.** *Proceedings of the National Academy of Sciences of the United States of America*
Sobral, M., Sampedro, L., Neylan, I., Siemens, D., Dirzo, R.
2021; 118 (33)
 - **Effects of Domestic and Wild Ungulate Management on Young Oak Size and Architecture** *SUSTAINABILITY*
Lopez-Sanchez, A., Roig, S., Dirzo, R., Perea, R.
2021; 13 (14)
 - **Logging drives contrasting animal body-size effects on tropical forest mammal communities** *FOREST ECOLOGY AND MANAGEMENT*
Gutierrez-Granados, G., Dirzo, R.
2021; 481
 - **Jose Mario Molina: Life and legacy of a man who helped to save Earth's ozone layer.** *Proceedings of the National Academy of Sciences of the United States of America*
Dirzo, R., Fernandez, A.
2021; 118 (1)
 - **Successful neighbour: Interactions of the generalist carnivore red fox with dogs, wolves and humans for continued survival in dynamic anthropogenic landscapes** *GLOBAL ECOLOGY AND CONSERVATION*
Reshamwala, H. S., Mahar, N., Dirzo, R., Habib, B.
2021; 25
 - **Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover.** *Current biology : CB*
Glidden, C. K., Nova, N., Kain, M. P., Lagerstrom, K. M., Skinner, E. B., Mandle, L., Sokolow, S. H., Plowright, R. K., Dirzo, R., De Leo, G. A., Mordecai, E. A.
2021; 31 (19): R1342-R1361
 - **Transgenerational Plasticity in Flower Color Induced by Caterpillars.** *Frontiers in plant science*
Sobral, M., Neylan, I. P., Narbona, E., Dirzo, R.
2021; 12: 617815
 - **TROPICAL RAINFOREST FRAGMENTATION AFFECTS PLANT SPECIES RICHNESS, COMPOSITION AND ABUNDANCE DEPENDING ON PLANT-SIZE CLASS AND LIFE HISTORY** *BOTANICAL SCIENCES*
Aguirre-Jaimes, A., Lopez-Acosta, J., Dirzo, R.
2021; 99 (1): 92–103
 - **Incidence of Galls on Sympatric California Oaks: Ecological and Physiological Perspectives** *DIVERSITY-BASEL*
Perea, R., Dirzo, R., Bieler, S., Wilson Fernandes, G.
2021; 13 (1)
 - **Forest fragmentation and defaunation drive an unusual ecological cascade: Predation release, monkey population outburst and plant demographic collapse** *BIOLOGICAL CONSERVATION*
Portela, R. Q., Dirzo, R.
2020; 252
 - **Matching species traits and microsites improves regeneration in mixed oak woodlands** *APPLIED VEGETATION SCIENCE*
Lopez-Sanchez, A., Johnson, I., Dirzo, R., Perea, R.
2020

- **Impacts of rodent eradication on seed predation and plant community biomass on a tropical atoll** *BIOTROPICA*
Kuile, A., Orr, D., Bui, A., Dirzo, R., Klope, M., McCauley, D., Motta, C., Young, H.
2020
- **Biodiversity and ecosystem services in the Campo Rupestre: A road map for the sustainability of the hottest Brazilian biodiversity hotspot** *PERSPECTIVES IN ECOLOGY AND CONSERVATION*
Fernandes, G., Arantes-Garcia, L., Barbosa, M., Barbosa, N. U., Batista, E. L., Beiroz, W., Resende, F. M., Abrahao, A., Almada, E. D., Alves, E., Alves, N. J., Angrisano, P., Arista, et al
2020; 18 (4): 213–22
- **Are protected populations of two globular cactus species facing a demographic explosion or just a "bonanza" year?** *JOURNAL OF ARID ENVIRONMENTS*
Antonini, Y., Dirzo, R., Quitete-Portela, R.
2020; 179
- **Early plant development depends on embryo damage location: the role of seed size in partial seed predation** *OIKOS*
Perea, R., Fernandes, G., Dirzo, R.
2020; 129 (3): 320–30
- **A field experiment to determine the effect of dry-season irrigation on vegetative and reproductive traits in the wet-deciduous tree *Bonellia nervosa*** *JOURNAL OF TROPICAL ECOLOGY*
Sanchez, O., Quesada, M., Dirzo, R., Schlichting, C. D.
2020; 36 (1): 29–35
- **Distinct responses of antagonistic and mutualistic networks to agricultural intensification.** *Ecology*
Morrison, B. M., Dirzo, R. n.
2020: e03116
- **Agricultural intensification drives changes in hybrid network robustness by modifying network structure.** *Ecology letters*
Morrison, B. M., Brosi, B. J., Dirzo, R.
2019
- **Spatio-temporal variation of biotic and abiotic stress agents determines seedling survival in assisted oak regeneration** *JOURNAL OF APPLIED ECOLOGY*
Lopez-Sanchez, A., Pelaez, M., Dirzo, R., Fernandes, G., Seminatore, M., Perea, R.
2019
- **Host plant phylogeny and abundance predict root-associated fungal community composition and diversity of mutualists and pathogens** *JOURNAL OF ECOLOGY*
Schroeder, J. W., Martin, J. T., Angulo, D. F., Arias-Del Razo, I., Barbosa, J. M., Perea, R., Sebastian-Gonzalez, E., Dirzo, R.
2019; 107 (4): 1557–66
- **Nurse plant size and biotic stress determine quantity and quality of plant facilitation in oak savannas** *FOREST ECOLOGY AND MANAGEMENT*
Pelaez, M., Dirzo, R., Fernandes, G., Perea, R.
2019; 437: 435–42
- **An island of wildlife in a human-dominated landscape: The last fragment of primary forest on the Osa Peninsula's Golfo Dulce coastline, Costa Rica** *PLOS ONE*
Gutierrez, B., Zambrano, A., Zambrano, S., Gil, C., Bohlman, S., Avellan Arias, E., Mulder, G., Ols, C., Dirzo, R., DeLuycker, A. M., Lewis, K., Broadbent, E. N.
2019; 14 (3)
- **Rodent community responses to vegetation and landscape changes in early successional stages of tropical dry forest** *FOREST ECOLOGY AND MANAGEMENT*
Patricia Morales-Diaz, S., Yolotl Alvarez-Anorve, M., Edith Zamora-Espinoza, M., Dirzo, R., Oyama, K., Daniel Avila-Cabadilla, L.
2019; 433: 633–44
- **Peláez M, Dirzo R, Fernandes GW, Perea R. 2019. Nurse plant size and biotic stress determine quantity and quality of plant facilitation in oak savannas. Forest Ecology and Management 437: 435-442** *Forest Ecology and Management*
Dirzo, R.
2019
- **An island of wildlife in a human-dominated landscape: The last fragment of primary forest on the Osa Peninsula's Golfo Dulce coastline, Costa Rica.** *PloS one*

- Gutierrez, B. L., Almeyda Zambrano, A. M., Almeyda Zambrano, S. L., Quispe Gil, C. A., Bohlman, S., Avellan Arias, E., Mulder, G., Ols, C., Dirzo, R., DeLuycker, A. M., Lewis, K., Broadbent, E. N.
2019; 14 (3): e0214390
- **López Gutierrez, B., Almeyda Zambrano, A., Almeyda Zambrano, S. Quispe Gil, C.A., Avellan-Arias, E., Mulder, G., Ols, C. Dirzo, R., DeLuycker, A.M., Bohlman, S., Lewis, K., Broadbent, E.N. 2019. An island of wildlife in a human-dimionated landscape on the Osa Peninsula's Golfo Dulce coastline, Costa Rica. PLoS One. 14(3): e0214390. <https://doi.org/10.1371/journal.pone.0214390> PLoS One**
Dirzo, R.
2019
 - **Opening the silvicultural toolbox: A new framework for conserving biodiversity in Chilean timber plantations** *FOREST ECOLOGY AND MANAGEMENT*
McFadden, T. N., Dirzo, R.
2018; 425: 75–84
 - **Nature Divided, Scientists United: US-Mexico Border Wall Threatens Biodiversity and Binational Conservation** *BIOSCIENCE*
Peters, R., Ripple, W. J., Wolf, C., Moskwik, M., Carreon-Arroyo, G., Ceballos, G., Cordova, A., Dirzo, R., Ehrlich, P. R., Flesch, A. D., List, R., Lovejoy, T. E., Noss, et al
2018; 68 (10): 740–43
 - **Invasive rat eradication strongly impacts plant recruitment on a tropical atoll** *PLOS ONE*
Wolf, C. A., Young, H. S., Zilliacus, K. M., Wegmann, A. S., McKown, M., Holmes, N. D., Tershy, B. R., Dirzo, R., Kropidowski, S., Croll, D. A.
2018; 13 (7): e0200743
 - **Assessing sustainability in North America's ecosystems using criticality and information theory** *PLOS ONE*
Ramirez-Carrillo, E., Lopez-Corona, O., Toledo-Roy, J. C., Lovett, J. C., de Leon-Gonzalez, F., Osorio-Olvera, L., Equihua, J., Robredo, E., Frank, A., Dirzo, R., Perez-Cirera, V.
2018; 13 (7): e0200382
 - **Community composition and diversity of Neotropical root-associated fungi in common and rare trees** *BIOTROPICA*
Schroeder, J. W., Martin, J. T., Angulo, D. F., Barbosa, J. M., Perea, R., Arias-Del Razo, I., Sebastian-Gonzalez, E., Dirzo, R.
2018; 50 (4): 694–703
 - **Embryo size as a tolerance trait against seed predation: Contribution of embryo-damaged seeds to plant regeneration** *PERSPECTIVES IN PLANT ECOLOGY EVOLUTION AND SYSTEMATICS*
Perea, R., Fernandes, G., Dirzo, R.
2018; 31: 7–16
 - **Cumulative effects of transgenerational induction on plant palatability to generalist and specialist herbivores** *WEB ECOLOGY*
Neylan, I. P., Dirzo, R., Sobral, M.
2018; 18 (1): 41–46
 - **Anthropogenic food subsidies change the pattern of red fox diet and occurrence across Trans-Himalayas, India** *JOURNAL OF ARID ENVIRONMENTS*
Reshamwala, H. S., Shrotriya, S., Bora, B., Lyngdoh, S., Dirzo, R., Habib, B.
2018; 150: 15–20
 - **Changes in livestock footprint and tree layer coverage in Mediterranean dehesas: a six-decade study based on remote sensing** *INTERNATIONAL JOURNAL OF REMOTE SENSING*
Lopez-Sanchez, A., Dirzo, R., Roig, S.
2018; 39 (14): 4727–43
 - **Differential tree recruitment in California oak savannas: Are evergreen oaks replacing deciduous oaks?** *FOREST ECOLOGY AND MANAGEMENT*
Perea, R., Lopez-Sanchez, A., Dirzo, R.
2017; 399: 1-8
 - **Biological annihilation via the ongoing sixth mass extinction signaled by vertebrate population losses and declines** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ceballos, G., Ehrlich, P. R., Dirzo, R.
2017; 114 (30): E6089–E6096
 - **Interacting effects of land use and climate on rodent-borne pathogens in central Kenya** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*

Young, H. S., McCauley, D. J., Dirzo, R., Nunn, C. L., Campana, M. G., Agwanda, B., Otarola-Castillo, E. R., Castillo, E. R., Pringle, R. M., Veblen, K. E., Salkeld, D. J., Stewardson, K., Fleischer, et al
2017; 372 (1722)

- **Forest conversion to cattle ranching differentially affects taxonomic and functional groups of Neotropical bats** *BIOLOGICAL CONSERVATION*
Goncalves, F., Fischer, E., Dirzo, R.
2017; 210: 343-348
- **Cascading community and ecosystem consequences of introduced coconut palms (*Cocos nucifera*) in tropical islands** *CANADIAN JOURNAL OF ZOOLOGY*
Young, H. S., Miller-ter Kuile, A., McCauley, D. J., Dirzo, R.
2017; 95 (3): 139-148
- **Conserving the World's Megafauna and Biodiversity: The Fierce Urgency of Now** *BIOSCIENCE*
Ripple, W. J., Chapron, G., Vicente Lopez-Bao, J., Durant, S. M., MacDonald, D. W., Lindsey, P. A., Bennett, E. L., Beschta, R. L., Bruskotter, J. T., Campos-Arceiz, A., Corlett, R. T., Darimont, C. T., Dickman, et al
2017; 67 (3): 197-200
- **Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems** *SCIENCE*
Barnosky, A. D., Hadly, E. A., Gonzalez, P., Head, J., Polly, P. D., Lawing, A. M., Eronen, J. T., Ackerly, D. D., Alex, K., Biber, E., Blois, J., Brashares, J., Ceballos, et al
2017; 355 (6325): 594-?
- **Species traits and interaction rules shape a species-rich seed-dispersal interaction network.** *Ecology and evolution*
Sebastián-González, E. n., Pires, M. M., Donatti, C. I., Guimarães, P. R., Dirzo, R. n.
2017; 7 (12): 4496–4506
- **Promoting the Educational Success of Children and Youth Learning English Promising Futures Summary** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 1-+
- **Dual Language Learners and English Learners with Disabilities** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 351–400
- **Policy Context** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 37–61
- **The Development of English Language Proficiency in Grades K-12** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 215–52
- **Promising and Effective Practices for Specific Populations of English Learners Grades Pre-K to 12** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 337–50
- **Promising and Effective Practices in Assessment of Dual Language Learners' and English Learners' Educational Progress** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artilles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 401–30

- **Promising and Effective Early Care and Education Practices and Home Visiting Programs for Dual Language Learners** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 165–213
- **Recommendations for Policy, Practice, and Research** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 471–85
- **Promoting the Educational Success of Children and Youth Learning English Promising Futures Introduction** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 15–35
- **Programs for English Learners in Grades Pre-K to 12** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 253–89
- **Promising and Effective Practices for English Learners in Grades Pre-K to 12** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 291–335
- **Dual Language Learners: Capacities and Influences on Language Development** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 107–63
- **Building the Workforce to Educate English Learners** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 431–69
- **The Demography of the English Learner Population** *PROMOTING THE EDUCATIONAL SUCCESS OF CHILDREN AND YOUTH LEARNING ENGLISH: PROMISING FUTURES*
Takanishi, R., Artiles, A., August, D. L., Botana, X., Conger, D., Duran, R. P., Espinosa, L. M., Garcia, E. E., Genesee, F., Hakuta, K., Hernandez, A., Houtchens, B., MacSwan, et al
2017: 63–105
- **Patterns of orchid bee species diversity and turnover among forested plateaus of central Amazonia.** *PloS one*
Antonini, Y. n., Machado, C. d., Galetti, P. M., Oliveira, M. n., Dirzo, R. n., Fernandes, G. W.
2017; 12 (4): e0175884
- **Saving the World's Terrestrial Megafauna** *BIOSCIENCE*
Ripple, W. J., Chapron, G., Vicente Lopez-Bao, J., Durant, S. M., Macdonald, D. W., Lindsey, P. A., Bennett, E. L., Beschta, R. L., Bruskotter, J. T., Campos-Arceiz, A., Corlett, R. T., Darimont, C. T., Dickman, et al
2016; 66 (10): 807-812
- **Saving the World's Terrestrial Megafauna.** *Bioscience*
Ripple, W. J., Chapron, G., López-Bao, J. V., Durant, S. M., Macdonald, D. W., Lindsey, P. A., Bennett, E. L., Beschta, R. L., Bruskotter, J. T., Campos-Arceiz, A., Corlett, R. T., Darimont, C. T., Dickman, et al
2016; 66 (10): 807-812

- **Bushmeat hunting and extinction risk to the world's mammals** *ROYAL SOCIETY OPEN SCIENCE*
Ripple, W. J., Abernethy, K., Betts, M. G., Chapron, G., Dirzo, R., Galetti, M., Levi, T., Lindsey, P. A., Macdonald, D., Machovina, B., Newsome, T. M., Peres, C. A., Wallach, et al
2016; 3 (10)
- **Scattered trees and livestock grazing as keystones organisms for sustainable use and conservation of Mediterranean dehesas** *JOURNAL FOR NATURE CONSERVATION*
Lopez-Sanchez, A., Miguel, A. S., Dirzo, R., Roig, S.
2016; 33: 58-67
- **Post-dispersal seed recovery by animals: is it a plant- or an animal-driven process?** *OIKOS*
Perea, R., Dirzo, R., San Miguel, A., Gil, L.
2016; 125 (8): 1203-1210
- **Deep into the mud: ecological and socio-economic impacts of the dam breach in Mariana, Brazil** *NATUREZA & CONSERVACAO*
Fernandes, G. W., Goulart, F. F., Ranieri, B. D., Coelho, M. S., Dales, K., Boesche, N., Bustamante, M., Carualho, F. A., Carvalho, D. C., Dirzo, R., Fernandes, S., Galetti, P. M., Millan, et al
2016; 14 (2): 35-45
- **Afforestation of savannas: an impending ecological disaster** *NATUREZA & CONSERVACAO*
Fernandes, G., Coelho, M., Machado, R., Ferreira, M., de Souza Aguiar, L., Dirzo, R., Scariot, A., Lopes, C.
2016; 14 (2): 146-151
- **Anthropogenic disturbances jeopardize biodiversity conservation within tropical rainforest reserves** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Martinez-Ramos, M., Ortiz-Rodriguez, I. A., Pinero, D., Dirzo, R., Sarukhan, J.
2016; 113 (19): 5323-5328
- **Large wildlife removal drives immune defence increases in rodents** *FUNCTIONAL ECOLOGY*
Young, H. S., Dirzo, R., Helgen, K. M., McCauley, D. J., Nunn, C. L., Snyder, P., Veblen, K. E., Zhao, S., Ezenwa, V. O.
2016; 30 (5): 799-807
- **Does tropical forest fragmentation affect plant anti-herbivore defensive and nutritional traits?** *JOURNAL OF TROPICAL ECOLOGY*
Ruiz-Guerra, B., Guevara, R., Velazquez-Rosas, N., Dirzo, R.
2016; 32: 162-164
- **Livestock vs. wild ungulate management in the conservation of Mediterranean dehesas: Implications for oak regeneration** *FOREST ECOLOGY AND MANAGEMENT*
Lopez-Sanchez, A., Perea, R., Dirzo, R., Roig, S.
2016; 362: 99-106
- **Does tropical forest fragmentation affect plant anti-herbivore defensive and nutritional traits?** *Journal of Tropical Ecology*
Ruiz-Guerra, B., Guevara, R., Velazquez-Rosas, N., Dirzo, R.
2016; 32: 162-164
- **Response: Commentary: Anthropogenic disturbances jeopardize biodiversity conservation within tropical rainforest reserves** *FRONTIERS IN ECOLOGY AND EVOLUTION*
Martinez-Ramos, M., Ortiz-Rodriguez, I. A., Pinero, D., Dirzo, R., Sarukhan, J.
2016; 4
- **Patterns, Causes, and Consequences of Anthropocene Defaunation** *ANNUAL REVIEW OF ECOLOGY, EVOLUTION, AND SYSTEMATICS, VOL 47*
Young, H. S., McCauley, D. J., Galetti, M., Dirzo, R.
2016; 47: 333-358
- **Hemiparasite-host plant interactions in a fragmented landscape assessed via imaging spectroscopy and LiDAR** *ECOLOGICAL APPLICATIONS*
Barbosa, J. M., Sebastian-Gonzalez, E., Asner, G. P., Knapp, D. E., Anderson, C., Martin, R. E., Dirzo, R.
2016; 26 (1): 55-66
- **Genetics-based interactions among plants, pathogens, and herbivores define arthropod community structure** *ECOLOGY*
Busby, P. E., Lamit, L. J., Keith, A. R., Newcombe, G., Gehring, C. A., Whitham, T. G., Dirzo, R.

2015; 96 (7): 1974-1984

- **Genetics-based interactions among plants, pathogens, and herbivores define arthropod community structure.** *Ecology*
Busby, P. E., Lamit, L. J., Keith, A. R., Newcombe, G., Gehring, C. A., Whitham, T. G., Dirzo, R.
2015; 96 (7): 1974-1984
- **Drivers of Intensity and Prevalence of Flea Parasitism on Small Mammals in East African Savanna Ecosystems.** *journal of parasitology*
Young, H. S., Dirzo, R., McCauley, D. J., Agwanda, B., Cattaneo, L., Dittmar, K., Eckerlin, R. P., Fleischer, R. C., Helgen, L. E., Hintz, A., Montinieri, J., Zhao, S., Helgen, et al
2015; 101 (3): 327-335
- **DRIVERS OF INTENSITY AND PREVALENCE OF FLEA PARASITISM ON SMALL MAMMALS IN EAST AFRICAN SAVANNA ECOSYSTEMS** *JOURNAL OF PARASITOLOGY*
Young, H. S., Dirzo, R., McCauley, D. J., Agwanda, B., Cattaneo, L., Dittmar, K., Eckerlin, R. P., Fleischer, R. C., Helgen, L. E., Hintz, A., Montinieri, J., Zhao, S., Helgen, et al
2015; 101 (3): 327-335
- **Collapse of the world's largest herbivores.** *Science advances*
Ripple, W. J., Newsome, T. M., Wolf, C., Dirzo, R., Everatt, K. T., Galetti, M., Hayward, M. W., Kerley, G. I., Levi, T., Lindsey, P. A., Macdonald, D. W., Malhi, Y., Painter, et al
2015; 1 (4)
- **Effects of Land Use on Plague (*Yersinia pestis*) Activity in Rodents in Tanzania** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*
McCauley, D. J., Salkeld, D. J., Young, H. S., Makundi, R., Dirzo, R., Eckerlin, R. P., Lambin, E. F., Gaffikin, L., Barry, M., Helgen, K. M.
2015; 92 (4): 776-783
- **Tropical Forest Fragmentation Affects Floral Visitors but Not the Structure of Individual-Based Palm-Pollinator Networks** *PLOS ONE*
Dattilo, W., Aguirre, A., Quesada, M., Dirzo, R.
2015; 10 (3)
- **RELEVANT ASPECTS ABOUT THE NATURAL HISTORY OF STRANGLER HEMIEPIPHYTE PLANTS** *INTERCIENCIA*
Carlos Lopez-Acosta, J., Dirzo, R.
2015; 40 (3): 190-197
- **Context-dependent effects of large-wildlife declines on small-mammal communities in central Kenya.** *Ecological applications*
Young, H. S., McCauley, D. J., Dirzo, R., Goheen, J. R., Agwanda, B., Brook, C., Otarola-Castillo, E., Ferguson, A. W., Kinyua, S. N., McDonough, M. M., Palmer, T. M., Pringle, R. M., Young, et al
2015; 25 (2): 348-360
- **Context-dependent effects of large-wildlife declines on small-mammal communities in central Kenya** *ECOLOGICAL APPLICATIONS*
Young, H. S., McCauley, D. J., Dirzo, R., Goheen, J. R., Agwanda, B., Brook, C., Otarola-Castillo, E., Ferguson, A. W., Kinyua, S. N., McDonough, M. M., Palmer, T. M., Pringle, R. M., Young, et al
2015; 25 (2): 348-360
- **Experimental defaunation of terrestrial mammalian herbivores alters tropical rainforest understorey diversity.** *Proceedings. Biological sciences / The Royal Society*
Camargo-Sanabria, A. A., Mendoza, E., Guevara, R., Martínez-Ramos, M., Dirzo, R.
2015; 282 (1800)
- **Strategic Actions to Value, Conserve, and Restore the Natural Capital of Megadiversity Countries: The Case of Mexico** *BIOSCIENCE*
Sarukhan, J., Urquiza-Haas, T., Koleff, P., Carabias, J., Dirzo, R., Ezcurra, E., Cerdeira-Estrada, S., Soberon, J.
2015; 65 (2): 164-173
- **Strategic Actions to Value, Conserve, and Restore the Natural Capital of Megadiversity Countries: The Case of Mexico.** *Bioscience*
Sarukhán, J., Urquiza-Haas, T., Koleff, P., Carabias, J., Dirzo, R., Ezcurra, E., Cerdeira-Estrada, S., Soberón, J.
2015; 65 (2): 164-173
- **Habitat Heterogeneity Affects Plant and Arthropod Species Diversity and Turnover in Traditional Cornfields.** *PloS one*
Martínez, E. n., Rös, M. n., Bonilla, M. A., Dirzo, R. n.
2015; 10 (7): e0128950

- **Long-term vegetation changes in a temperate forest impacted by climate change** *ECOSPHERE*
Oakes, L. E., Hennon, P. E., O'Hara, K. L., Dirzo, R.
2014; 5 (10)
- **Differentiating genetic and environmental drivers of plant-pathogen community interactions** *JOURNAL OF ECOLOGY*
Busby, P. E., Newcombe, G., Dirzo, R., Whitham, T. G.
2014; 102 (5): 1300-1309
- **Reconstructing past ecological networks: the reconfiguration of seed-dispersal interactions after megafaunal extinction.** *Oecologia*
Pires, M. M., Galetti, M., Donatti, C. I., Pizo, M. A., Dirzo, R., Guimarães, P. R.
2014; 175 (4): 1247-1256
- **Translating science for decision makers to help navigate the Anthropocene** *ANTHROPOCENE REVIEW*
Barnosky, A. D., Hadly, E. A., Dirzo, R., Fortelius, M., Stenseth, N.
2014; 1 (2): 160-170
- **Defaunation in the Anthropocene** *SCIENCE*
Dirzo, R., Young, H. S., Galetti, M., Ceballos, G., Isaac, N. J., Collen, B.
2014; 345 (6195): 401-406
- **Declines in large wildlife increase landscape-level prevalence of rodent-borne disease in Africa** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Young, H. S., Dirzo, R., Helgen, K. M., McCauley, D. J., Billeter, S. A., Kosoy, M. Y., Osikowicz, L. M., Salkeld, D. J., Young, T. P., Dittmar, K.
2014; 111 (19): 7036-7041
- **Differential plant damage due to litterfall in palm-dominated forest stands in a Central Pacific atoll** *JOURNAL OF TROPICAL ECOLOGY*
Young, H. S., McCauley, D. J., Pollock, A., Dirzo, R.
2014; 30: 231-236
- **Introducing the Scientific Consensus on Maintaining Humanity's Life Support Systems in the 21 st Century: Information for Policy Makers** *ANTHROPOCENE REVIEW*
Barnosky, A. D., Brown, J. H., Daily, G. C., Dirzo, R., Ehrlich, A. H., Ehrlich, P. R., Eronen, J. T., Fortelius, M., Hadly, E. A., Leopold, E. B., Mooney, H. A., Myers, J., Naylor, et al
2014; 1 (1): 78-109
- **Integrating stand and soil properties to understand foliar nutrient dynamics during forest succession following slash-and-burn agriculture in the Bolivian Amazon.** *PloS one*
Broadbent, E. N., Almeyda Zambrano, A. M., Asner, G. P., Soriano, M., Field, C. B., de Souza, H. R., Peña-Claros, M., Adams, R. I., Dirzo, R., Giles, L.
2014; 9 (2)
- **Effects of cattle management on oak regeneration in northern californian mediterranean oak woodlands.** *PloS one*
López-Sánchez, A., Schroeder, J., Roig, S., Sobral, M., Dirzo, R.
2014; 9 (8)
- **Integrating Stand and Soil Properties to Understand Foliar Nutrient Dynamics during Forest Succession Following Slash-and-Burn Agriculture in the Bolivian Amazon.** *PloS one*
Broadbent, E. N., Almeyda Zambrano, A. M., Asner, G. P., Soriano, M., Field, C. B., de Souza, H. R., Peña-Claros, M., Adams, R. I., Dirzo, R., Giles, L.
2014; 9 (2): e86042
- **Water stress strengthens mutualism among ants, trees, and scale insects.** *PLoS biology*
Pringle, E. G., Akçay, E., Raab, T. K., Dirzo, R., Gordon, D. M.
2013; 11 (11)
- **Richness and Abundance of Ichneumonidae in a Fragmented Tropical Rain Forest** *NEOTROPICAL ENTOMOLOGY*
Ruiz-Guerra, B., Hanson, P., Guevara, R., Dirzo, R.
2013; 42 (5): 458-465
- **Consumer preference for seeds and seedlings of rare species impacts tree diversity at multiple scales** *OECOLOGIA*
Young, H. S., McCauley, D. J., Guevara, R., Dirzo, R.
2013; 172 (3): 857-867

- **Effects of mammalian herbivore declines on plant communities: observations and experiments in an African savanna.** *The Journal of ecology*
Young, H. S., McCauley, D. J., Helgen, K. M., Goheen, J. R., Otárola-Castillo, E., Palmer, T. M., Pringle, R. M., Young, T. P., Dirzo, R.
2013; 101 (4): 1030-1041
- **Effects of mammalian herbivore declines on plant communities: observations and experiments in an African savanna** *JOURNAL OF ECOLOGY*
Young, H. S., McCauley, D. J., Helgen, K. M., Goheen, J. R., Otárola-Castillo, E., Palmer, T. M., Pringle, R. M., Young, T. P., Dirzo, R.
2013; 101 (4): 1030-1041
- **Genetic basis of pathogen community structure for foundation tree species in a common garden and in the wild** *JOURNAL OF ECOLOGY*
Busby, P. E., Newcombe, G., Dirzo, R., Whitham, T. G.
2013; 101 (4): 867-877
- **Ecological and evolutionary consequences of living in a defaunated world** *BIOLOGICAL CONSERVATION*
Galetti, M., Dirzo, R.
2013; 163: 1-6
- **Effects of grasses on sapling establishment and the role of transplanted saplings on the light environment of pastures: implications for tropical forest restoration** *APPLIED VEGETATION SCIENCE*
Meli, P., Dirzo, R.
2013; 16 (2): 296-304
- **The roles of productivity and ecosystem size in determining food chain length in tropical terrestrial ecosystems** *ECOLOGY*
Young, H. S., McCauley, D. J., Dunbar, R. B., Hutson, M. S., Ter-Kuile, M., Dirzo, R.
2013; 94 (3): 692-701
- **Plant defense, herbivory, and the growth of *Cordia alliodora* trees and their symbiotic Azteca ant colonies** *OECOLOGIA*
Pringle, E. G., Dirzo, R., Gordon, D. M.
2012; 170 (3): 677-685
- **Averting biodiversity collapse in tropical forest protected areas** *NATURE*
Laurance, W. F., Uuseche, D. C., Rendeiro, J., Kalka, M., Bradshaw, C. J., Sloan, S. P., Laurance, S. G., Campbell, M., Abernethy, K., Alvarez, P., Arroyo-Rodriguez, V., Ashton, P., Benitez-Malvido, et al
2012; 489 (7415): 290-?
- **Effects of Spatial Subsidies and Habitat Structure on the Foraging Ecology and Size of Geckos** *PLOS ONE*
Briggs, A. A., Young, H. S., McCauley, D. J., Hathaway, S. A., Dirzo, R., Fisher, R. N.
2012; 7 (8)
- **Diversification and phylogeographic structure in widespread Azteca plant-ants from the northern Neotropics** *MOLECULAR ECOLOGY*
Pringle, E. G., Ramirez, S. R., Bonebrake, T. C., Gordon, D. M., Dirzo, R.
2012; 21 (14): 3576-3592
- **From wing to wing: the persistence of long ecological interaction chains in less-disturbed ecosystems** *SCIENTIFIC REPORTS*
McCauley, D. J., DeSalles, P. A., Young, H. S., Dunbar, R. B., Dirzo, R., Mills, M. M., Micheli, F.
2012; 2
- **The effect of land use change and ecotourism on biodiversity: a case study of Manuel Antonio, Costa Rica, from 1985 to 2008** *LANDSCAPE ECOLOGY*
Broadbent, E. N., Zambrano, A. M., Dirzo, R., Durham, W. H., Driscoll, L., Gallagher, P., Salters, R., Schultz, J., Colmenares, A., Randolph, S. G.
2012; 27 (5): 731-744
- **Consequences of Fragmentation of Tropical Moist Forest for Birds and Their Role in Predation of Herbivorous Insects** *BIOTROPICA*
Ruiz-Guerra, B., Renton, K., Dirzo, R.
2012; 44 (2): 228-236
- **Intersexual comparison of DNA content by flow cytometry, and chromosome number in four dioecious *Chamaedorea* palms from Mexico** *CARYOLOGIA*
Cepeda-Cornejo, V., Palomino, G., Mendez, I., Dirzo, R.
2012; 65 (4): 263-270
- **HYBRIDIZATION AMONG DOMINANT TREE SPECIES CORRELATES POSITIVELY WITH UNDERSTORY PLANT DIVERSITY** *AMERICAN JOURNAL OF BOTANY*

- Adams, R. I., Goldberry, S., Whitham, T. G., Zinkgraf, M. S., Dirzo, R.
2011; 98 (10): 1623-1632
- **Jaguars, tapirs, and lessons in conservation ecology** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Dirzo, R.
2011; 9 (8): 470-471
 - **Analysis of a hyper-diverse seed dispersal network: modularity and underlying mechanisms** *ECOLOGY LETTERS*
Donatti, C. I., Guimaraes, P. R., Galetti, M., Pizo, M. A., Marquitti, F. M., Dirzo, R.
2011; 14 (8): 773-781
 - **Differential diameter-size effects of forest management on tree species richness and community structure: implications for conservation** *BIODIVERSITY AND CONSERVATION*
Gutierrez-Granados, G., Perez-Salicipru, D. R., Dirzo, R.
2011; 20 (7): 1571-1585
 - **Distinct Leaf-trait Syndromes of Evergreen and Deciduous Trees in a Seasonally Dry Tropical Forest** *BIOTROPICA*
Pringle, E. G., Adams, R. I., Broadbent, E., Busby, P. E., Donatti, C. I., Kurten, E. L., Renton, K., Dirzo, R.
2011; 43 (3): 299-308
 - **A Novel Method to Improve Individual Animal Identification Based on Camera-Trapping Data** *JOURNAL OF WILDLIFE MANAGEMENT*
Mendoza, E., Martineau, P. R., Brenner, E., Dirzo, R.
2011; 75 (4): 973-979
 - **DIFFERENTIAL RESPONSES TO GUANO FERTILIZATION AMONG TROPICAL TREE SPECIES WITH VARYING FUNCTIONAL TRAITS** *AMERICAN JOURNAL OF BOTANY*
Young, H. S., McCauley, D. J., Dirzo, R.
2011; 98 (2): 207-214
 - **Indirect benefits of symbiotic coccoids for an ant-defended myrmecophytic tree** *ECOLOGY*
Pringle, E. G., Dirzo, R., Gordon, D. M.
2011; 92 (1): 37-46
 - **Influence of Tree Ontogeny on Plant-Herbivore Interactions** *SIZE- AND AGE-RELATED CHANGES IN TREE STRUCTURE AND FUNCTION*
Boege, K., Barton, K. E., Dirzo, R., Meinzer, F. C., Lachenbruch, B., Dawson, T. E.
2011; 4: 193-214
 - **Effects of forest fragmentation on assemblages of pollinators and floral visitors to male- and female-phase inflorescences of *Astrocaryum mexicanum* (Arecaceae) in a Mexican rain forest** *JOURNAL OF TROPICAL ECOLOGY*
Aguirre, A., Guevara, R., Dirzo, R.
2011; 27: 25-33
 - **The coconut palm, *Cocos nucifera*, impacts forest composition and soil characteristics at Palmyra Atoll, Central Pacific** *JOURNAL OF VEGETATION SCIENCE*
Young, H. S., Raab, T. K., McCauley, D. J., Briggs, A. A., Dirzo, R.
2010; 21 (6): 1058-1068
 - **Plant stages with biotic, indirect defences are more palatable and suffer less herbivory than their undefended counterparts** *BIOLOGICAL JOURNAL OF THE LINNEAN SOCIETY*
Llandres, A. L., Rodriguez-Girones, M. A., Dirzo, R.
2010; 101 (3): 536-543
 - **IN MEMORY OF PAUL S. MARTIN (August 22nd 1928 - September 13th 2010), has works published, American geoscientist** *CIENCIAUAT*
Sanchez-Ramos, G., Reyes-Castillo, P., Dirzo, R.
2010; 5 (2): 8
 - **Delineation of biogeomorphic land units across a tropical natural and humanized terrain in Los Tuxtlas, Veracruz, Mexico** *GEOMORPHOLOGY*
Concepcion Garcia-Aguirre, M., Alvarez, R., Dirzo, R., Ortiz, M. A., Eng, M. M.
2010; 121 (3-4): 245-256

- **Experimental defoliation affects male but not female reproductive performance of the tropical monoecious plant *Croton suberosus* (Euphorbiaceae)** *ANNALS OF BOTANY*
Narbona, E., Dirzo, R.
2010; 106 (2): 359-369
- **K-12 science education and "broader impacts"** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Spalding, H. L., Gupta, A., Barshis, D. J., Knope, M. L., Tice, K. A., Dirzo, R., Wilber, C.
2010; 8 (4): 217-218
- **A REASSESSMENT OF THE FUNCTION OF FLORAL NECTAR IN CROTON SUBEROSUS (EUPHORBIACEAE): A REWARD FOR PLANT DEFENDERS AND POLLINATORS** *AMERICAN JOURNAL OF BOTANY*
Narbona, E., Dirzo, R.
2010; 97 (4): 672-679
- **Sex-Related Differences in Reproductive Allocation, Growth, Defense and Herbivory in Three Dioecious Neotropical Palms** *PLOS ONE*
Cepeda-Cornejo, V., Dirzo, R.
2010; 5 (3)
- **Importance of the lilac-crowned parrot in pre-dispersal seed predation of *Astronium graveolens* in a Mexican tropical dry forest** *JOURNAL OF TROPICAL ECOLOGY*
Ines Villasenor-Sanchez, E., Dirzo, R., Renton, K.
2010; 26: 227-236
- **Plants cause ecosystem nutrient depletion via the interruption of bird-derived spatial subsidies** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Young, H. S., McCauley, D. J., Dunbar, R. B., Dirzo, R.
2010; 107 (5): 2072-2077
- **Insect herbivory declines with forest fragmentation and covaries with plant regeneration mode: evidence from a Mexican tropical rain forest** *OIKOS*
Ruiz-Guerra, B., Guevara, R., Mariano, N. A., Dirzo, R.
2010; 119 (2): 317-325
- **Niche partitioning among and within sympatric tropical seabirds revealed by stable isotope analysis** *MARINE ECOLOGY PROGRESS SERIES*
Young, H. S., McCauley, D. J., Dirzo, R., Dunbar, R. B., Shaffer, S. A.
2010; 416: 285-294
- **Resource partitioning by species but not sex in sympatric boobies in the central Pacific Ocean** *MARINE ECOLOGY PROGRESS SERIES*
Young, H. S., Shaffer, S. A., McCauley, D. J., Foley, D. G., Dirzo, R., Block, B. A.
2010; 403: 291-301
- **Prevalence of Tree Regeneration by Sprouting and Seeding Along a Rainfall Gradient in Hawai'i** *BIOTROPICA*
Busby, P. E., Vitousek, P., Dirzo, R.
2010; 42 (1): 80-86
- **Indirect effects of timber extraction on plant recruitment and diversity via reductions in abundance of frugivorous spider monkeys** *JOURNAL OF TROPICAL ECOLOGY*
Gutierrez-Granados, G., Dirzo, R.
2010; 26: 45-52
- **SEED REMOVAL, HERBIVORIA AND RECRUITMENT OF BROSIMUM ALICASTRUM PLANTS (MORACEAE) IN CONTRASTING SITES WITH FOREST MANAGEMENT, QUINTANA ROO, MEXICO** *BOLETIN DE LA SOCIEDAD BOTANICA DE MEXICO*
Gutierrez-Granados, G., Dirzo, R.
2009; 85: 51-58
- **SEED TOLERANCE TO PREDATION: EVIDENCE FROM THE TOXIC SEEDS OF THE BUCKEYE TREE (AESCULUS CALIFORNICA; SAPINDACEAE)** *AMERICAN JOURNAL OF BOTANY*
Mendoza, E., Dirzo, R.
2009; 96 (7): 1255-1261
- **Morphological variation in the flowers of *Jacaratia mexicana* A. DC. (Caricaceae), a subdioecious tree** *PLANT BIOLOGY*
Aguirre, A., Vallejo-Marin, M., Piedra-Malagon, E. M., Cruz-Ortega, R., Dirzo, R.

- 2009; 11 (3): 417-424
- **2008 ATBC Honorary Fellows Prof. Ernesto Medina** *BIOTROPICA*
Dirzo, R.
2009; 41 (1): 137-138
 - **Effects of fragmentation on pollinator abundance and fruit set of an abundant understory palm in a Mexican tropical forest** *BIOLOGICAL CONSERVATION*
Aguirre, A., Dirzo, R.
2008; 141 (2): 375-384
 - **Effects of Amazonian forest fragmentation on the interaction between plants, insect herbivores, and their natural enemies** *JOURNAL OF TROPICAL ECOLOGY*
Faveri, S. B., Vasconcelos, H. L., Dirzo, R.
2008; 24: 57-64
 - **Seed-size variation determines interspecific differential predation by mammals in a neotropical rain forest** *OIKOS*
Mendoza, E., Dirzo, R.
2007; 116 (11): 1841-1852
 - **The plight of large animals in tropical forests and the consequences for plant regeneration** *Annual Meeting of the Association-for-Tropical-Biology-and-Conservation*
Wright, S. J., Stoner, K. E., Beckman, N., Corlett, R. T., Dirzo, R., Muller-Landau, H. C., Nunez-Iturri, G., Peres, C. A., Wang, B. C.
WILEY-BLACKWELL.2007: 289-91
 - **Size-related differential seed predation in a heavily defaunated neotropical rain forest** *Annual Meeting of the Association-for-Tropical-Biology-and-Conservation*
Dirzo, R., Mendoza, E., Ortiz, P.
WILEY-BLACKWELL.2007: 355-62
 - **Ontogenetic switches from plant resistance to tolerance: minimizing costs with age?** *ECOLOGY LETTERS*
Boege, K., Dirzo, R., Siemens, D., Brown, P.
2007; 10 (3): 177-187
 - **Floristic diversity of sabal palmetto woodland: an endemic and endangered vegetation type from Mexico** *BIODIVERSITY AND CONSERVATION*
Lopez, J. C., Dirzo, R.
2007; 16 (3): 807-825
 - **Variation in sexual expression in *Jacaratia mexicana* (Caricaceae) in southern Mexico: Frequency and relative seed performance of fruit-producing males** *BIOTROPICA*
Aguirre, A., Vallejo-Marin, M., Salazar-Gorozieta, L., Arias, D. M., Dirzo, R.
2007; 39 (1): 79-86
 - **Biased seed rain in forest edges: Evidence from the Brazilian Atlantic forest** *BIOLOGICAL CONSERVATION*
de Melo, F. P., Dirzo, R., Tabarelli, M.
2006; 132 (1): 50-60
 - **The evolution of ecology in Mexico: facing challenges and preparing for the future** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Martinez, M. L., Manson, R. H., Balvanera, P., Dirzo, R., Soberon, J., Garcia-Barrios, L., Martinez-Ramos, M., Moreno-Casasola, P., Rosenzweig, L., Sarukhan, J.
2006; 4 (5): 259-267
 - **An endangered oasis of aquatic microbial biodiversity in the Chihuahuan desert** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Souza, V., Espinosa-Asuar, L., Escalante, A. E., Eguarte, L. E., Farmer, J., Forney, L., Lloret, L., Rodriguez-Martinez, J. M., Soberon, X., Dirzo, R., Elser, J. J.
2006; 103 (17): 6565-6570
 - **Simulated seed predation reveals a variety of germination responses of neotropical rain forest species** *AMERICAN JOURNAL OF BOTANY*
Vallejo-Marin, M., DOMINGUEZ, C. A., Dirzo, R.
2006; 93 (3): 369-376
 - **Biodiversity science evolves** *SCIENCE*

- Dirzo, R., Loreau, M.
2005; 310 (5750): 943
- **A quantitative analysis of forest fragmentation in Los Tuxtlas, southeast Mexico: patterns and implications for conservation** *REVISTA CHILENA DE HISTORIA NATURAL*
Mendoza, E., Fay, J., Dirzo, R.
2005; 78 (3): 451-467
 - **Diversitas and the challenge of Latin American biodiversity conservation** *INTERCIENCIA*
Rodriguez, J. P., Good, T., Dirzo, R.
2005; 30 (8): 450-450
 - **Post-classification digital change detection analysis of a temperate forest in the southwest basin of Mexico City, in a 16-year span** *3rd International Workshop on the Analysis of Multi-Temporal Remote Sensing Images*
Garcia-Aguirre, M. C., Alvarez, R., Dirzo, R., Bernal, A.
IEEE.2005: 81-84
 - **Myrmecophily: Plants with their own army** *INTERCIENCIA*
Del Val, E., Dirzo, R.
2004; 29 (12): 673-?
 - **Diversity of gall-inducing insects in a Mexican tropical dry forest: the importance of plant species richness, life-forms, host plant age and plant density** *JOURNAL OF ECOLOGY*
Cuevas-Reyes, P., Quesada, M., Hanson, P., Dirzo, R., Oyama, K.
2004; 92 (4): 707-716
 - **Intraspecific variation in growth, defense and herbivory in *Dialium guianense* (Caesalpinaceae) mediated by edaphic heterogeneity** *PLANT ECOLOGY*
Boege, K., Dirzo, R.
2004; 175 (1): 59-69
 - **Global state of biodiversity and loss** *Annual Review of Environment and Natural Resources*
Rodolfo Dirzo, Peter Raven
2003; 28: 137-167
 - **Global state of biodiversity and loss** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES*
Dirzo, R., Raven, P. H.
2003; 28: 137-167
 - **Does ontogeny cause changes in the defensive strategies of the myrmecophyte *Cecropia peltata*?** *PLANT ECOLOGY*
Del Val, E., Dirzo, R.
2003; 169 (1): 35-41
 - **Genetic divergence among Mexican populations of red mangrove (*Rhizophora mangle*): geographic and historic effects** *EVOLUTIONARY ECOLOGY RESEARCH*
Nunez-Farfan, J., DOMINGUEZ, C. A., Eguiarte, L. E., Cornejo, A., Quijano, M., Vargas, J., Dirzo, R.
2002; 4 (7): 1049-1064
 - **The causes of land-use and land-cover change: moving beyond the myths** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*
Lambin, E. F., Turner, B. L., Geist, H. J., Agbola, S. B., Angelsen, A., Bruce, J. W., Coomes, O. T., Dirzo, R., Fischer, G., Folke, C., George, P. S., Homewood, K., Imbernon, et al
2001; 11 (4): 261-269
 - **Biodiversity - Global biodiversity scenarios for the year 2100** *SCIENCE*
Sala, O. E., Chapin, F. S., Armesto, J. J., Berlow, E., Bloomfield, J., Dirzo, R., Huber-Sanwald, E., Huenneke, L. F., Jackson, R. B., Kinzig, A., Leemans, R., Lodge, D. M., Mooney, et al
2000; 287 (5459): 1770-1774
 - **Global biodiversity scenarios for the year 2100.** *Science*
Sala, O. E., Chapin, F. S., Armesto, J. J., Berlow, E., Bloomfield, J., Dirzo, R., Huber-Sanwald, E., Huenneke, L. F., Jackson, R. B., Kinzig, A., Leemans, R., Lodge, D. M., Mooney, et al
2000; 287 (5459): 1770-1774

- **Deforestation in Lacandonia (southeast Mexico): evidence for the declaration of the northernmost tropical hot-spot** *BIODIVERSITY AND CONSERVATION*
Mendoza, E., Dirzo, R.
1999; 8 (12): 1621-1641
- **Consumption of macro-fungi by invertebrates in a Mexican tropical cloud forest: do fruit body characteristics matter?** *JOURNAL OF TROPICAL ECOLOGY*
Guevara, R., Dirzo, R.
1999; 15: 603-617
- **Ecological science and the human predicament** *SCIENCE*
Bazzaz, F., Ceballos, G., Davis, M., Dirzo, R., Ehrlich, P. R., Eisner, T., Levin, S., Lawton, J. H., Lubchenco, J., Matson, P. A., Mooney, H. A., Raven, P. H., Roughgarden, et al
1998; 282 (5390): 879-879
- **Flower morphometry of *Rhizophora mangle* (Rhizophoraceae): Geographical variation in Mexican populations** *AMERICAN JOURNAL OF BOTANY*
DOMINGUEZ, C. A., Eguiarte, L. E., Nunez-Farfan, J., Dirzo, R.
1998; 85 (5): 637-643
- **A rapid method for the assessment of the macromycota. The fungal community of an evergreen cloud forest as an example** *CANADIAN JOURNAL OF BOTANY-REVUE CANADIENNE DE BOTANIQUE*
Guevara, R., Dirzo, R.
1998; 76 (4): 596-601
- **Mating system consequences on resistance to herbivory and life history traits in *Datura stramonium*** *AMERICAN JOURNAL OF BOTANY*
NUNEZFARFAN, J., CabralesVargas, R. A., Dirzo, R.
1996; 83 (8): 1041-1049
- **The role of an avian nectar robber and of Hummingbird pollinators in the reproduction of two plant species** *FUNCTIONAL ECOLOGY*
Arizmendi, M. C., DOMINGUEZ, C. A., Dirzo, R.
1996; 10 (1): 119-127
- **WITHIN-YEAR AND AMONG-YEAR VARIATION IN THE LEVELS OF HERBIVORY ON THE FOLIAGE OF TREES FROM A MEXICAN TROPICAL DECIDUOUS FOREST** *BIOTROPICA*
Filip, V., Dirzo, R., Maass, J. M., Sarukhan, J.
1995; 27 (1): 78-86
- **RAINFALL AND FLOWERING SYNCHRONY IN A TROPICAL SHRUB - VARIABLE SELECTION ON THE FLOWERING TIME OF *ERYTHROXYLUM HAVANENSE*** *EVOLUTIONARY ECOLOGY*
DOMINGUEZ, C. A., Dirzo, R.
1995; 9 (2): 204-216
- **EFFECTS OF DEFOLIATION ON *ERYTHROXYLUM HAVANENSE*, A TROPICAL PROLEPTIC SPECIES** *ECOLOGY*
DOMINGUEZ, C. A., Dirzo, R.
1994; 75 (7): 1896-1902
- **EVOLUTIONARY ECOLOGY OF *DATURA-STRAMONIUM L* IN CENTRAL MEXICO - NATURAL-SELECTION FOR RESISTANCE TO HERBIVOROUS INSECTS** *EVOLUTION*
NUNEZFARFAN, J., Dirzo, R.
1994; 48 (2): 423-436
- **EFFECTS OF DEFOLIATION ON THE SAPLINGS OF A GAP-COLONIZING NEOTROPICAL TREE** *JOURNAL OF VEGETATION SCIENCE*
NUNEZFARFAN, J., Dirzo, R.
1991; 2 (4): 459-464
- **ON THE FUNCTION OF FLORAL NECTAR IN *CROTON-SUBEROSUS* (EUPHORBIACEAE)** *OIKOS*
DOMINGUEZ, C. A., Dirzo, R., Bullock, S. H.
1989; 56 (1): 109-114
- **LEAF SURVIVAL IN RELATION TO HERBIVORY IN 2 TROPICAL PIONEER SPECIES** *OIKOS*
NUNEZFARFAN, J., Dirzo, R.

1989; 55 (1): 71-74

- **WITHIN-GAP SPATIAL HETEROGENEITY AND SEEDLING PERFORMANCE IN A MEXICAN TROPICAL FOREST** *OIKOS*

NUNEZFARFAN, J., Dirzo, R.

1988; 51 (3): 274-284

- **SOME IMPORTANT PROBLEMS IN THE STUDY OF HERBIVORE-PLANT INTERACTIONS IN TROPICAL FORESTS** *REVISTA DE BIOLOGIA TROPICAL*

Dirzo, R., Chapin, F. S.

1987; 35: 207-211

PRESENTATIONS

- Numerous presentations (about 790) including national and international conferences, symposia and workshops - Audiences in different countries, mostly in the US and Mexico