

Publications of Carlos M. Herrera (as of November 2013)

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Scientific publications

(a) Books and monographs

- a1. **Herrera, C. M.** 1980. *Composición y estructura de dos comunidades mediterráneas de Passeriformes*. Doñana Acta Vertebrata, Special Monograph, 340 p.
- a2. Amat, J. A., Díaz, C., **Herrera, C. M.**, Jordano, P., Obeso, J. R. and Soriguer, R. C. 1985. *Criterios de valoración de zonas húmedas de importancia nacional y regional en función de las aves acuáticas*. Monografías ICONA, Minist. Agricult., Madrid. 78 p.
- a3. **Herrera, C. M.**, Araque, E. and Sánchez, J. D. 1992. *Bibliografía sobre historia natural y geoeconómica del Parque Natural de las Sierras de Cazorla, Segura y Las Villas*. Agencia de Medio Ambiente, Junta de Andalucía, Jaén. 83 p.
- a4. Blanca, G., B. Cabezudo, J. E. Hernández-Bermejo, **C. M. Herrera**, J. Molero Mesa, J. Muñoz and B. Valdés. 1999. *Libro rojo de la flora silvestre amenazada de Andalucía. I. Especies en peligro de extinción*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, Spain. 302 p.
- a5. Blanca, G., B. Cabezudo, J. E. Hernández-Bermejo, **C. M. Herrera**, J. Muñoz and B. Valdés. 2000. *Libro rojo de la flora silvestre amenazada de Andalucía. II. Especies vulnerables*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, Spain. 375 p.
- a6. **Herrera, C. M.**, and O. Pellmyr, editors. 2002. *Plant-animal interactions: an evolutionary approach*. Blackwell Scientific Publications, Oxford, England.
- a7. **Herrera, C. M.**, editor. 2004. *El monte mediterráneo en Andalucía*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla.
- a8. Alonso, C., J. L. Garrido, and **C. M. Herrera**. 2004. *Investigaciones sobre plantas y animales en las Sierras de Cazorla, Segura y Las Villas. 25 años de estudios por el CSIC*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, 133 p.
- a9. Cabezudo, B., S. Talavera, G. Blanca, C. Salazar, M. Cueto, B. Valdés, J. E. Hernández Bermejo, **C. M. Herrera**, C. Rodríguez Hiraldo, and D. Navas. 2005. *Lista roja de la flora vascular de Andalucía*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, 126 p.
- a10. **Herrera, C. M.** 2009. *Multiplicity in unity. Plant subindividual variation and interactions with animals*. University of Chicago Press, Chicago, 448 p.

(b) Book chapters

- b1. **Herrera, C. M.** 1980. Seasonal patterns in bird community organization. Local and global approaches. Pages 1082-1087 in R. Nöhring (Ed.), *Acta XVII Congressus Internationalis Ornithologici*. Deutschen Ornithologen-Gesellschaft, Berlin.
- b2. **Herrera, C. M.** 1985. Habitat-consumer interaction in frugivorous birds. Pages 341-365 in M. L. Cody (Ed.), *Habitat selection in birds*. Academic Press, New York.
- b3. **Herrera, C. M.** 1986. Vertebrate-dispersed plants: Why they don't behave the way they should. In A. Estrada and T. H. Fleming (Eds.), *Frugivores and seed dispersal*, pp. 5-18. Junk, Dordrecht, The Netherlands.

- b4. **Herrera, C. M.** 1988. La invernada de aves en la Península Ibérica: cifras, biología y conservación. Pages 201-206 in J. L. Tellería and T. Santos (Eds.), *Invernada de aves en la Península Ibérica*. Sociedad Española de Ornitología, Madrid.
- b5. **Herrera, C. M.** 1988. Avian frugivory and seed dispersal in Mediterranean habitats: regional variation in plant-animal interaction. Pages 509-517 in H. Ouellet (Ed.), *Acta XIX Congressus Internationalis Ornithologici*, Vol. 1. Nat. Museum Nat. Sciences, Univ. Ottawa Press, Ottawa, Canada.
- b6. **Herrera, C. M.** 1992. Mediterranean plant-bird seed dispersal systems: the roles of history and adaptation. Pages 241-250 in C. A. Thanos (Ed.), *Plant-animal interactions in Mediterranean-type ecosystems*. Proceedings of the 6th International Conference on Mediterranean Climate Ecosystems. University of Athens, Athens, Greece.
- b7. **Herrera, C. M.** 1989. Dinàmica i funcionalitat dels ecosistemes terrestres: les relacions de mutualisme. Pages 197-203 in J. Terradas, N. Prat, A. Escarré and R. Margalef (Eds.), *Història Natural dels Països Catalans*. Vol. 14. Sistemes Naturals. Enciclopèdia Catalana, Barcelona, Spain.
- b8. **Herrera, C. M.** 1993. La gestión de la diversidad biológica. Pages 255-279 in J. M. Naredo and F. Parra (Eds.), *Hacia una ciencia de los recursos naturales*. Siglo Veintiuno Editores, Madrid.
- b9. **Herrera, C. M.** 1996. Floral traits and plant adaptation to insect pollinators: a devil's advocate approach. Pages 65-87 in D. G. Lloyd and S. C. H. Barrett (Eds.), *Floral Biology. Studies on floral evolution in animal-pollinated plants*. Chapman & Hall, New York.
- b10. **Herrera, C. M.** 1996. El papel de los carnívoros en la dispersión de semillas. Pages 201-216 in R. García-Perea, R. A. Baquero, R. Fernández-Salvador and J. Gisbert (Eds.), *Carnívoros. Evolución, ecología y conservación*. Museo Nacional Ciencias Naturales, Consejo Superior de Investigaciones Científicas, Madrid.
- b11. **Herrera, C. M.** 2001. Dispersión de semillas por animales en el Mediterráneo: ecología y evolución. In R. Zamora and F. I. Pugnaire (Eds.), *Ecosistemas Mediterráneos. Análisis Funcional*, pp. 125-152. Colección Textos Universitarios nº 32, Servicio de Publicaciones, Consejo Superior de Investigaciones Científica, Madrid.
- b12. **Herrera, C. M.** 2002. Seed dispersal by vertebrates. Pages 185-208 in C. M. Herrera and O. Pellmyr (Eds.), *Plant-animal interactions: an evolutionary approach*. Blackwell Scientific Publications, Oxford, England.
- b13. **Herrera, C. M.** 2002. Cincuenta años de ecología evolutiva. Crónica y logros de una reconciliación intelectual. Pages 83-95 in R. Hernández Tristán, L. Corral Mora and F. Infante García-Pantaleón (Eds.), *50 años de Biología en España*. Publ. Obra Social Cultural Cajasur, Córdoba, Spain.
- b14. **Herrera, C. M.** 2004. Ecología de los pájaros frugívoros ibéricos. Pages 127-153 in J. L. Tellería (Ed.), *La ornitología hoy. Homenaje al Profesor Francisco Bernis Madrazo*. Editorial Complutense, Universidad Complutense, Madrid.
- b15. **Herrera, C. M.**, M. C. Castellanos, and M. Medrano. 2006. Geographical context of floral evolution: towards an improved research program in floral diversification. Pages 278-294 in L. D. Harder and S. C. H. Barrett (Eds.), *The ecology and evolution of flowers*. Oxford University Press, Oxford, England.
- b16. **Herrera, C. M.** 2012. Genomic scan as a tool for assessing the genetic component of phenotypic variance in wild populations. Pages 315-329 in F. Pompanon and A. Bonin (Eds.), *Population genomics: methods and protocols. Methods in Molecular Biology Series, Vol. 888*. Humana Press, New York, USA.

(c) Journal papers

- c1. **Herrera, C. M.** 1974. El paso otoñal de *Sylvia borin* y *Sylvia communis* en la Reserva de Doñana. *Doñana Acta Vertebrata* **1**: 83-119.

- c2. **Herrera, C. M.** 1974. Biometría y sistemática de *Pitymys duodecimcostatus* de Sélys-Longchamps 1839 (Mammalia, Rodentia) en el sur de España. *Arquivos Museu Bocage, Lisboa* **4**: 261-276.
- c3. **Herrera, C. M.** 1974. Trophic diversity of the Barn Owl *Tyto alba* in continental western Europe. *Ornis Scandinavica* **5**: 181-191.
- c4. **Herrera, C. M.** 1974. Régimen alimenticio de *Tyto alba* Scop. en España suroccidental. *Ardeola* **19**: 359-394.
- c5. **Herrera, C. M.** 1974. La captura de carnívoros por las Strigiformes. *Ardeola* **19**: 439-444.
- c6. **Herrera, C. M.** 1974. Observaciones sobre una colonia de Garcillas Bueyeras (*Bubulcus ibis*) en Andalucía. *Ardeola* **20**: 287-306.
- c7. **Herrera, C. M.** and Ramírez, A. 1974. Food of bee-eaters in southern Spain. *British Birds* **67**: 158-164.
- c8. **Herrera, C. M.** and Soriguer, R. C. 1974. Morfología y dimorfismo sexual de la pelvis de *Pitymys duodecimcostatus*. *Doñana Acta Vertebrata* **1**: 245-254.
- c9. Hiraldo, F. and **Herrera, C. M.** 1974. Dimorfismo sexual y diferenciación de edades en *Sturnus unicolor* Temm. *Doñana Acta Vertebrata* **1**: 149-170.
- c10. **Herrera, C. M.** and Hidalgo, J. 1974. Sobre la presencia invernal de *Clamator glandarius* en Andalucía. *Ardeola* **20**: 307-311.
- c11. **Herrera, C. M.** 1975. A note on the emetic technique for obtaining food samples from passerine birds. *Doñana Acta Vertebrata* **2**: 77-82.
- c12. **Herrera, C. M.** 1976. A trophic diversity index for presence-absence food data. *Oecologia (Berlin)* **25**: 187-191.
- c13. **Herrera, C. M.** and Hiraldo, F. 1976. Food-niche and trophic relationships among European owls. *Ornis Scandinavica* **7**: 29-41.
- c14. **Herrera, C. M.** 1977. Ecología alimenticia del Petirrojo (*Erithacus rubecula*) durante su invernada en encinares del sur de España. *Doñana Acta Vertebrata* **4**: 35-59.
- c15. **Herrera, C. M.** and Soriguer, R. C. 1977. Composición de las comunidades de passeriformes en dos biotopos de Sierra Morena occidental. *Doñana Acta Vertebrata* **4**: 127-138.
- c16. Amat, J. A. and **Herrera, C. M.** 1977. Alimentación de la Garza Imperial (*Ardea purpurea*) en las Marismas del Guadalquivir durante el período de nidificación. *Ardeola* **24**: 95-104.
- c17. **Herrera, C. M.** 1978. Datos sobre la dieta invernal del Colirrojo Tizón (*Phoenicurus ochruros*) en encinares de Andalucía occidental. *Doñana Acta Vertebrata* **5**: 61-71.
- c18. **Herrera, C. M.** 1978. Evolución estacional de las comunidades de passeriformes en dos encinares de Andalucía occidental. *Ardeola* **25**: 143-180.
- c19. **Herrera, C. M.** 1978. Niche-shift in the genus *Parus* in southern Spain. *Ibis* **120**: 236-240.
- c20. **Herrera, C. M.** 1978. On the breeding distribution pattern of European migrant birds: MacArthur's theme re-examined. *Auk* **95**: 496-509.
- c21. **Herrera, C. M.** 1978. Individual dietary differences associated with morphological variation in Robins *Erithacus rubecula*. *Ibis* **120**: 542-545.
- c22. **Herrera, C. M.** 1978. Ecological correlates of residence and non-residence in a Mediterranean passerine bird community. *Journal of Animal Ecology* **47**: 871-890.
- c23. **Herrera, C. M.** 1979. Ecological aspects of heterospecific flocks formation in a Mediterranean passerine bird community. *Oikos* **33**: 85-96.
- c24. **Herrera, C. M.**, and F. M. Jaksic. 1980. Feeding ecology of the Barn Owl in central Chile and southern Spain: a comparative study. *Auk* **97**: 760-767.
- c25. **Herrera, C. M.** 1981. Fruit variation and competition for dispersers in natural populations of *Smilax aspera*. *Oikos* **36**: 51-58.

- c26. **Herrera, C. M.** 1981. Fruit food of Robins wintering in southern Spanish Mediterranean scrubland. *Bird Study* **28**: 115-122.
- c27. **Herrera, C. M.** 1981. Are tropical fruits more rewarding to dispersers than temperate ones? *American Naturalist* **118**: 896-907.
- c28. **Herrera, C. M.** 1981. Combination rules among western European *Parus* species. *Ornis Scandinavica* **12**: 140-147.
- c29. **Herrera, C. M.** 1981. Organización temporal en las comunidades de aves. *Doñana Acta Vertebrata* **8**: 79-101.
- c30. **Herrera, C. M.** 1981. Datos sobre la dieta frugívora del Mirlo (*Turdus merula*) en dos localidades del sur de España. *Doñana Acta Vertebrata* **8**: 306-310.
- c31. **Herrera, C. M.**, and P. Jordano. 1981. *Prunus mahaleb* and birds: the high-efficiency seed dispersal system of a temperate fruiting tree. *Ecological Monographs* **51**: 203-218.
- c32. Jordano, P., and **C. M. Herrera**. 1981. The frugivorous diet of Blackcap populations *Sylvia atricapilla* wintering in southern Spain. *Ibis* **123**: 502-507.
- c33. **Herrera, C. M.** 1982. Defense of ripe fruits from pests: its significance in relation to plant-disperser interactions. *American Naturalist* **120**: 218-241.
- c34. **Herrera, C. M.** 1982. Some comments on Stiles' paper on bird-disseminated fruits. *American Naturalist* **120**: 819-822.
- c35. **Herrera, C. M.** 1982. Breeding systems and dispersal-related maternal reproductive effort of southern Spanish bird-dispersed plants. *Evolution* **36**: 1299-1314.
- c36. **Herrera, C. M.** 1982. Reply to Bawa. *Evolution* **36**: 1325-1326.
- c37. **Herrera, C. M.** 1982. Grasses, grazers, mutualism, and coevolution: a comment. *Oikos* **38**: 254-258.
- c38. **Herrera, C. M.** 1982. Seasonal variation in the quality of fruits and diffuse coevolution between plants and avian dispersers. *Ecology* **63**: 773-785.
- c39. Jaksic, F. M., R. L. Seib, and **C. M. Herrera**. 1982. Predation by the Barn Owl (*Tyto alba*) in Mediterranean habitats of Chile, Spain and California: a comparative approach. *American Midland Naturalist* **107**: 151-162.
- c40. **Herrera, C. M.**, and R. C. Soriguer. 1983. Intra- and inter-floral heterogeneity of nectar production in *Helleborus foetidus* L. (Ranunculaceae). *Botanical Journal of the Linnean Society* **86**: 253-260.
- c41. **Herrera, C. M.** 1984. Selective pressures on fruit seediness: differential predation of fly larvae on the fruits of *Berberis hispanica*. *Oikos* **42**: 166-170.
- c42. **Herrera, C. M.** 1984. Avian interference of insect frugivory: an exploration into the plant-bird-fruit pest evolutionary triad. *Oikos* **42**: 203-210.
- c43. **Herrera, C. M.** 1984. Coevolución de plantas y frugívoros: la invernada mediterránea de algunos passeriformes. *Alytes* **1**: 177-190.
- c44. **Herrera, C. M.** 1984. A study of avian frugivores, bird-dispersed plants, and their interaction in Mediterranean scrublands. *Ecological Monographs* **54**: 1-23.
- c45. **Herrera, C. M.** 1984. Adaptation to frugivory of Mediterranean avian seed dispersers. *Ecology* **65**: 609-617.
- c46. **Herrera, C. M.** 1984. Significance of ants in the diet of insectivorous birds in southern Spanish Mediterranean habitats. *Ardeola* **30**: 77-81.
- c47. **Herrera, C. M.** 1984. Seed dispersal and fitness determinants in wild rose: combined effects of hawthorn, birds, mice, and browsing ungulates. *Oecologia (Berlin)* **63**: 386-393.
- c48. **Herrera, C. M.** 1984. The annual cycle of *Osyris quadripartita*, a hemiparasitic dioecious shrub of Mediterranean scrublands. *Journal of Ecology* **72**: 1065-1078.

- c49. **Herrera, C. M.**, J. Herrera, and X. Espadaler. 1984 Nectar thievery by ants from southern Spanish insect-pollinated flowers. *Insectes Sociaux* **31**: 142-154.
- c50. **Herrera, C. M.** 1985. Determinants of plant-animal coevolution: the case of mutualistic dispersal of seeds by vertebrates. *Oikos* **44**: 132-141.
- c51. **Herrera, C. M.** 1985. Predispersal reproductive biology of female *Osyris quadripartita* (Santalaceae), a hemiparasitic dioecious shrub of Mediterranean scrublands. *Botanical Journal of the Linnean Society* **90**: 113-127.
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- c53. **Herrera, C. M.** 1985. Tipos morfológicos y funcionales en plantas leñosas del matorral mediterráneo del sur de España. *Studia Oecologica* **5**: 7-34.
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- c56. **Herrera, C. M.** 1987. Distribución, ecología y conservación de *Atropa baetica* Willk. (Solanaceae) en la Sierra de Cazorla. *Anales del Jardín Botánico de Madrid* **43**: 387-398.
- c57. **Herrera, C. M.** 1987. Components of pollinator "quality": comparative analysis of a diverse insect assemblage. *Oikos* **50**: 79-90.
- c58. **Herrera, C. M.** 1987. Componentes del flujo génico en *Lavandula latifolia* Medicus: polinización y dispersión de semillas. *Anales del Jardín Botánico de Madrid* **44**: 49-61.
- c59. **Herrera, C. M.** 1987. Vertebrate-dispersed plants of the Iberian Peninsula: a study of fruit characteristics. *Ecological Monographs* **57**: 305-331.
- c60. **Herrera, C. M.** 1988. The fruiting ecology of *Osyris quadripartita*: individual variation and evolutionary potential. *Ecology* **69**: 233-249.
- c61. **Herrera, C. M.** 1988. Habitat-shaping, host-plant use by a hemiparasitic shrub, and the importance of gut fellows. *Oikos* **51**: 383-386.
- c62. **Herrera, C. M.** 1988. Variation in mutualisms: the spatio-temporal mosaic of an insect pollinator assemblage. *Biological Journal of the Linnean Society* **35**: 95-125.
- c63. **Herrera, C. M.** 1988. Biología y ecología de *Viola cazorlensis*. I. Variabilidad en caracteres florales. *Anales del Jardín Botánico de Madrid* **45**: 233-246.
- c64. **Herrera, C. M.** 1988. Plant size, spacing patterns, and host plant selection in *Osyris quadripartita*, a hemiparasitic dioecious shrub. *Journal of Ecology* **76**: 995-1006.
- c65. **Herrera, C. M.** 1988. Variaciones anuales en las poblaciones de pájaros frugívoros y su relación con la abundancia de frutos. *Ardeola* **35**: 135-142.
- c66. **Herrera, C. M.** 1989. Vertebrate frugivores and their interaction with invertebrate fruit predators: supporting evidence from a Costa Rican dry forest. *Oikos* **54**: 185-188.
- c67. **Herrera, C. M.** 1989. Seed dispersal by animals: a role in angiosperm diversification? *American Naturalist* **133**: 309-322.
- c68. **Herrera, C. M.** 1989. Temperate frugivory and seed dispersal. *Trends in Ecology and Evolution* **4**: 90-91. (Book review)
- c69. **Herrera, C. M.** 1989. Frugivory and seed dispersal by carnivorous mammals, and associated fruit characteristics, in undisturbed Mediterranean habitats. *Oikos* **55**: 250-262.
- c70. **Herrera, C. M.** 1989. Pollinator abundance, morphology, and flower visitation rate: analysis of the "quantity" component in a plant-pollinator system. *Oecologia (Berlin)* **80**: 241-248.
- c71. **Herrera, C. M.** 1990. Biología y ecología de *Viola cazorlensis*. II. Uso de sustratos, reproducción y consumo por los herbívoros. *Anales del Jardín Botánico de Madrid* **47**: 125-128.

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- c77. **Herrera, C. M.** 1991. Dissecting factors responsible for individual variation in plant fecundity. *Ecology* **72**: 1439-1448.
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- c79. **Herrera, C. M.** 1992. Individual flowering time and maternal fecundity in a summer-flowering Mediterranean shrub: making the right prediction for the wrong reason. *Acta Oecologica* **13**: 13-24.
- c80. **Herrera, C. M.** 1992. Historical effects and sorting processes as explanations of contemporary ecological patterns: character syndromes in Mediterranean woody plants. *American Naturalist* **140**: 421-446.
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