# Yohay Carmel

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 66 papers | 2,506 citations | 279701 23 h-index | 223716 46 g-index |
| 68 all docs | 68 docs citations | 68 times ranked | 5140 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Identification of 100 fundamental ecological questions. Journal of Ecology, 2013, 101, 58-67. | 1.9 | 605 |
| 2 | Title is missing!. , 1999, 145, 243-254. | | 137 |
| 3 | Uses and Misuses of Multicriteria Decision Analysis (MCDA) in Environmental Decision Making. Risk Analysis, 2009, 29, 26-33. | 1.5 | 131 |
| 4 | Assessing fire risk using Monte Carlo simulations of fire spread. Forest Ecology and Management, 2009, 257, 370-377. | 1.4 | 130 |
| 5 | Sensitivity analysis for complex ecological models â€“ A new approach. Environmental Modelling and Software, 2011, 26, 124-134. | 1.9 | 109 |
| 6 | Monitoring post-wildfire vegetation response with remotely sensed time-series data in Spain, USA and Israel. International Journal of Wildland Fire, 2010, 19, 75. | 1.0 | 106 |
| 7 | Planning for robust reserve networks using uncertainty analysis. Ecological Modelling, 2006, 199, 115-124. | 1.2 | 95 |
| 8 | Trends in Ecological Research during the Last Three Decades â€“ A Systematic Review. PLoS ONE, 2013, 8, e59813. | 1.1 | 62 |
| 9 | Computerized classification of Mediterranean vegetation using panchromatic aerial photographs. Journal of Vegetation Science, 1998, 9, 445-454. | 1.1 | 59 |
| 10 | Recognizing animal personhood in compassionate conservation. Conservation Biology, 2020, 34, 1097-1106. | 2.4 | 58 |
| 11 | A global meta-analysis of grazing effects on plant richness. Agriculture, Ecosystems and Environment, 2020, 302, 107072. | 2.5 | 53 |
| 12 | Quantifying the value of user-level data cleaning for big data: A case study using mammal distribution models. Ecological Informatics, 2016, 34, 139-145. | 2.3 | 51 |
| 13 | Spatial analysis of air pollution and cancer incidence rates in Haifa Bay, Israel. Science of the Total Environment, 2010, 408, 4429-4439. | 3.9 | 50 |
| 14 | Can the intermediate disturbance hypothesis explain grazingâ€“diversity relations at a global scale?. Oikos, 2020, 129, 493-502. | 1.2 | 50 |
| 15 | Infoâ€Gap Robustâ€Satisficing Model of Foraging Behavior: Do Foragers Optimize or Satisfice?. American Naturalist, 2005, 166, 633-641. | 1.0 | 48 |
| 16 | Post-fire analysis of pre-fire mapping of fire-risk: A recent case study from Mt. Carmel (Israel). Forest Ecology and Management, 2011, 262, 1184-1188. | 1.4 | 43 |
| 17 | Habitat use by bats in a Mediterranean ecosystem in Israelâ€”Conservation implications. Biological Conservation, 1998, 84, 245-250. | 1.9 | 35 |
| 18 | SPATIOTEMPORAL PREDICTIVE MODELS OF MEDITERRANEAN VEGETATION DYNAMICS. , 2001, 11, 268-280. | | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Incorporating output variance in local sensitivity analysis for stochastic models. Ecological Modelling, 2008, 213, 463-467. | 1.2 | 28 |
| 20 | Using exclusion rate to unify niche and neutral perspectives on coexistence. Oikos, 2017, 126, 1451-1458. | 1.2 | 28 |
| 21 | Assessment of temporal changes in aboveground forest tree biomass using aerial photographs and allometric equations. Canadian Journal of Forest Research, 2006, 36, 2585-2594. | 0.8 | 27 |
| 22 | Quantifying the effect of grazing and shrub-clearing on small scale spatial pattern of vegetation. Landscape Ecology, 2008, 23, 327-339. | 1.9 | 27 |
| 23 | Comparing landscape scale vegetation dynamics following recent disturbance in climatically similar sites in California and the Mediterranean basin. Landscape Ecology, 2004, 19, 573-590. | 1.9 | 26 |
| 24 | Woody vegetation patch types affect herbaceous species richness and composition in a Mediterranean ecosystem. Community Ecology, 2012, 13, 72-81. | 0.5 | 26 |
| 25 | Automated segmentation of vegetation structure units in a Mediterranean landscape. International Journal of Remote Sensing, 2012, 33, 346-364. | 1.3 | 25 |
| 26 | High-resolution species-distribution model based on systematic sampling and indirect observations. Biodiversity and Conservation, 2017, 26, 421-437. | 1.2 | 25 |
| 27 | Comparing Environmental and Biological Surrogates for Biodiversity at a Local Scale. Israel Journal of Ecology and Evolution, 2006, 52, 11-27. | 0.2 | 24 |
| 28 | Environmental heterogeneity affects the location of modelled communities along the nicheâ€“neutrality continuum. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133249. | 1.2 | 23 |
| 29 | Assessment of an â€œEnergy Towerâ€•potential in Australia using a mathematical model and GIS. Solar Energy, 2005, 78, 799-808. | 2.9 | 22 |
| 30 | The Evolution of the Cultural Mediterranean Landscape in Israel as Affected by Fire, Grazing, and Human Activities. , 2004, , 337-409. | | 22 |
| 31 | Can agro-ecosystems efficiently complement protected area networks?. Biological Conservation, 2014, 169, 158-166. | 1.9 | 21 |
| 32 | Presenceâ€•only versus presenceâ€“absence data in species composition determinant analyses. Diversity and Distributions, 2011, 17, 474-479. | 1.9 | 19 |
| 33 | Performance of a spatio-temporal error model for raster datasets under complex error patterns. International Journal of Remote Sensing, 2004, 25, 5283-5296. | 1.3 | 16 |
| 34 | Differential effects of goat browsing on herbaceous plant community in a two-phase mosaic. Plant Ecology, 2011, 212, 1643-1653. | 0.7 | 16 |
| 35 | Landscape patterns of development under two alternative scenarios: Implications for conservation. Land Use Policy, 2016, 54, 221-234. | 2.5 | 15 |
| 36 | Mapping spatio-temporal variables: The impact of the time-averaging window width on the spatial accuracy. Atmospheric Environment, 2005, 39, 3611-3619. | 1.9 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Growth, resource storage, and adaptation to drought in California and eastern Mediterranean oak seedlings. Canadian Journal of Forest Research, 2008, 38, 331-342. | 0.8 | 14 |
| 38 | The effects of disturbance based management on the dynamics of Mediterranean vegetation: A hierarchical and spatially explicit modeling approach. Ecological Modelling, 2009, 220, 2525-2535. | 1.2 | 14 |
| 39 | Using ecological modelling in marine spatial planning to enhance ecosystem-based management. Marine Policy, 2018, 95, 14-23. | 1.5 | 14 |
| 40 | Empirical Method for Topographic Correction in Aerial Photographs. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 211-214. | 1.4 | 13 |
| 41 | Controlling Data Uncertainty via Aggregation in Remotely Sensed Data. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 39-41. | 1.4 | 12 |
| 42 | Characterizing wild ass pathways using a non-invasive approach: applying least-cost path modelling to guide field surveys and a model selection analysis. Landscape Ecology, 2013, 28, 1465-1478. | 1.9 | 12 |
| 43 | Bird and mammal species composition in distinct geographic regions and their relationships with environmental factors across multiple spatial scales. Ecology and Evolution, 2014, 4, 1963-1971. | 0.8 | 12 |
| 44 | Experimental evidence of multiple ecosystem services and disservices provided by ecological intensification in Mediterranean agroâ€ecosystems. Journal of Applied Ecology, 2020, 57, 2041-2053. | 1.9 | 12 |
| 45 | Operationalizing evolutionary transitions in individuality. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192805. | 1.2 | 12 |
| 46 | Multiscale Analyses of Mammal Species Composition â€“ Environment Relationship in the Contiguous USA. PLoS ONE, 2011, 6, e25440. | 1.1 | 12 |
| 47 | Analyzing Spatially Distributed Binary Data Using Independent-Block Estimating Equations. Biometrics, 2007, 63, 892-900. | 0.8 | 11 |
| 48 | Intraguild Predation Dynamics in a Lake Ecosystem Based on a Coupled Hydrodynamic-Ecological Model: The Example of Lake Kinneret (Israel). Biology, 2017, 6, 22. | 1.3 | 11 |
| 49 | Characterizing Location and Classification Error Patterns in Time-Series Thematic Maps. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 11-14. | 1.4 | 10 |
| 50 | Cost-effectiveness of uncultivated field-margins and semi-natural patches in Mediterranean areas: A multi-taxa, landscape scale approach. Biological Conservation, 2019, 240, 108262. | 1.9 | 10 |
| 51 | Fire season modifies the perennial plant community composition through a differential effect on obligate seeders in eastern Mediterranean woodlands. Applied Vegetation Science, 2019, 22, 115-126. | 0.9 | 9 |
| 52 | High resilience of the mycorrhizal community to prescribed seasonal burnings in eastern Mediterranean woodlands. Mycorrhiza, 2021, 31, 203-216. | 1.3 | 8 |
| 53 | Distribution of threatened-unprotected vertebrates as a basis for conservation planning. Israel Journal of Ecology and Evolution, 2009, 55, 117-132. | 0.2 | 7 |
| 54 | A multiscale analysis of herbaceous species richness in a Mediterranean ecosystem. Journal of Plant Ecology, 2013, 6, 113-121. | 1.2 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Incorporating principles of reconciliation ecology to achieve ecosystem-based marine spatial planning. Ecological Engineering, 2018, 120, 595-600. | 1.6 | 7 |
| 56 | Contributions of marine infrastructures to marine planning and protected area networking. Aquatic Conservation: Marine and Freshwater Ecosystems, 2018, 28, 830-839. | 0.9 | 7 |
| 57 | Economic and not ecological variables shape the sparingâ€“sharing tradeâ€off in a mixed cropping landscape. Journal of Applied Ecology, 2022, 59, 779-790. | 1.9 | 7 |
| 58 | To mix or not to mix the sources of relocated plants? The case of the endangered Iris lortetii. Journal for Nature Conservation, 2018, 45, 41-47. | 0.8 | 6 |
| 59 | Assessing climatic benefits from forestation potential in semi-arid lands. Environmental Research Letters, 2021, 16, 104039. | 2.2 | 6 |
| 60 | Irrigation as an important factor in species distribution models. Basic and Applied Ecology, 2013, 14, 651-658. | 1.2 | 5 |
| 61 | Conservation planning under uncertainty in urban development and vegetation dynamics. PLoS ONE, 2018, 13, e0195429. | 1.1 | 4 |
| 62 | Seasonal fires shape the germinable soil seed bank community in eastern Mediterranean woodlands. Journal of Plant Ecology, 2022, 15, 13-25. | 1.2 | 3 |
| 63 | Evaluation of five clustering algorithms for biodiversity surrogates. Ecological Indicators, 2011, 11, 896-901. | 2.6 | 2 |
| 64 | The elusive nature of fluorescent organic matter in Lake Kinneret, Israel. Hydrobiologia, 2016, 763, 53-68. | 1.0 | 2 |
| 65 | Aggregation as a Means of Increasing Thematic Map Accuracy. , 2004, , 29-38. | | 0 |
| 66 | Expanded view of ecosystem stability: A grazed grassland case study. PLoS ONE, 2017, 12, e0178235. | 1.1 | 0 |