

Anne Chao

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

21,050
citations

46918

47
h-index

29081

104
g-index

123
all docs

123
docs citations

123
times ranked

22395
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Rarefaction and extrapolation with Hill numbers: a framework for sampling and estimation in species diversity studies. <i>Ecological Monographs</i> , 2014, 84, 45-67. | 2.4 | 2,397 |
| 2 | iNEXT: an R package for rarefaction and extrapolation of species diversity (Hill numbers). <i>Methods in Ecology and Evolution</i> , 2016, 7, 1451-1456. | 2.2 | 2,368 |
| 3 | Estimating the Population Size for Capture-Recapture Data with Unequal Catchability. <i>Biometrics</i> , 1987, 43, 783. | 0.8 | 1,841 |
| 4 | A new statistical approach for assessing similarity of species composition with incidence and abundance data. <i>Ecology Letters</i> , 2004, 8, 148-159. | 3.0 | 1,470 |
| 5 | Coverage-based rarefaction and extrapolation: standardizing samples by completeness rather than size. <i>Ecology</i> , 2012, 93, 2533-2547. | 1.5 | 1,353 |
| 6 | Estimating the Number of Classes via Sample Coverage. <i>Journal of the American Statistical Association</i> , 1992, 87, 210-217. | 1.8 | 1,040 |
| 7 | Nonparametric estimation of Shannon's index of diversity when there are unseen species in sample. <i>Environmental and Ecological Statistics</i> , 2003, 10, 429-443. | 1.9 | 601 |
| 8 | Unifying Species Diversity, Phylogenetic Diversity, Functional Diversity, and Related Similarity and Differentiation Measures Through Hill Numbers. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014, 45, 297-324. | 3.8 | 592 |
| 9 | Abundance-Based Similarity Indices and Their Estimation When There Are Unseen Species in Samples. <i>Biometrics</i> , 2006, 62, 361-371. | 0.8 | 474 |
| 10 | Estimating the Number of Species in a Stochastic Abundance Model. <i>Biometrics</i> , 2002, 58, 531-539. | 0.8 | 433 |
| 11 | Sufficient sampling for asymptotic minimum species richness estimators. <i>Ecology</i> , 2009, 90, 1125-1133. | 1.5 | 420 |
| 12 | Stopping rules and estimation for recapture debugging with unequal failure rates. <i>Biometrika</i> , 1993, 80, 193-201. | 1.3 | 398 |
| 13 | Estimating Population Size Via Sample Coverage for Closed Capture-Recapture Models. <i>Biometrics</i> , 1994, 50, 88. | 0.8 | 365 |
| 14 | Analysis and results of prolonged resuscitation in cardiac arrest patients rescued by extracorporeal membrane oxygenation. <i>Journal of the American College of Cardiology</i> , 2003, 41, 197-203. | 1.2 | 320 |
| 15 | Measuring and Estimating Species Richness, Species Diversity, and Biotic Similarity from Sampling Data. , 2013, , 195-211. | | 307 |
| 16 | Estimating Population Size for Sparse Data in Capture-Recapture Experiments. <i>Biometrics</i> , 1989, 45, 427. | 0.8 | 302 |
| 17 | Patterns and causes of species richness: a general simulation model for macroecology. <i>Ecology Letters</i> , 2009, 12, 873-886. | 3.0 | 286 |
| 18 | Phylogenetic diversity measures based on Hill numbers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3599-3609. | 1.8 | 279 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Proposing a resolution to debates on diversity partitioning. <i>Ecology</i> , 2012, 93, 2037-2051. | 1.5 | 275 |
| 20 | The applications of capture-recapture models to epidemiological data. <i>Statistics in Medicine</i> , 2001, 20, 3123-3157. | 0.8 | 264 |
| 21 | Resilience of tropical rain forests: tree community reassembly in secondary forests. <i>Ecology Letters</i> , 2009, 12, 385-394. | 3.0 | 255 |
| 22 | Estimating Population Size for Capture-Recapture Data When Capture Probabilities Vary by Time and Individual Animal. <i>Biometrics</i> , 1992, 48, 201. | 0.8 | 248 |
| 23 | An improved nonparametric lower bound of species richness via a modified good-turing frequency formula. <i>Biometrics</i> , 2014, 70, 671-682. | 0.8 | 220 |
| 24 | Partitioning diversity for conservation analyses. <i>Diversity and Distributions</i> , 2010, 16, 65-76. | 1.9 | 216 |
| 25 | A novel statistical method for classifying habitat generalists and specialists. <i>Ecology</i> , 2011, 92, 1332-1343. | 1.5 | 203 |
| 26 | Diversity and geographic distribution of ciliates (Protista: Ciliophora). <i>Biodiversity and Conservation</i> , 2008, 17, 345-363. | 1.2 | 187 |
| 27 | Quantifying temporal change in biodiversity: challenges and opportunities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20121931. | 1.2 | 178 |
| 28 | Estimating diversity and entropy profiles via discovery rates of new species. <i>Methods in Ecology and Evolution</i> , 2015, 6, 873-882. | 2.2 | 169 |
| 29 | A Two-Stage Probabilistic Approach to Multiple-Community Similarity Indices. <i>Biometrics</i> , 2008, 64, 1178-1186. | 0.8 | 168 |
| 30 | Estimating the Number of Classes via Sample Coverage. , 0, . | | 165 |
| 31 | An overview of closed capture-recapture models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2001, 6, 158-175. | 0.7 | 144 |
| 32 | Quantifying sample completeness and comparing diversities among assemblages. <i>Ecological Research</i> , 2020, 35, 292-314. | 0.7 | 141 |
| 33 | Distance-Based Functional Diversity Measures and Their Decomposition: A Framework Based on Hill Numbers. <i>PLoS ONE</i> , 2014, 9, e100014. | 1.1 | 132 |
| 34 | Pain relief by applying transcutaneous electrical nerve stimulation (TENS) on acupuncture points during the first stage of labor: A randomized double-blind placebo-controlled trial. <i>Pain</i> , 2007, 127, 214-220. | 2.0 | 129 |
| 35 | PREDICTING THE NUMBER OF NEW SPECIES IN FURTHER TAXONOMIC SAMPLING. <i>Ecology</i> , 2003, 84, 798-804. | 1.5 | 128 |
| 36 | Entropy and the species accumulation curve: a novel entropy estimator via discovery rates of new species. <i>Methods in Ecology and Evolution</i> , 2013, 4, 1091-1100. | 2.2 | 120 |

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|----|--|-----|-----------|
| 37 | Seasonal variation in suicides: diminished or vanished. <i>British Journal of Psychiatry</i> , 2000, 177, 366-369. | 1.7 | 111 |
| 38 | Phylogenetic beta diversity, similarity, and differentiation measures based on Hill numbers. <i>Ecological Monographs</i> , 2014, 84, 21-44. | 2.4 | 107 |
| 39 | A statistical approach to estimate soil ciliate diversity and distribution based on data from five continents. <i>Oikos</i> , 2006, 114, 479-493. | 1.2 | 93 |
| 40 | An attributeâ€diversity approach to functional diversity, functional beta diversity, and related (dis)similarity measures. <i>Ecological Monographs</i> , 2019, 89, e01343. | 2.4 | 80 |
| 41 | Estimating and comparing microbial diversity in the presence of sequencing errors. <i>PeerJ</i> , 2016, 4, e1634. | 0.9 | 73 |
| 42 | Bridging the variance and diversity decomposition approaches to beta diversity via similarity and differentiation measures. <i>Methods in Ecology and Evolution</i> , 2016, 7, 919-928. | 2.2 | 73 |
| 43 | Rarefaction and extrapolation of phylogenetic diversity. <i>Methods in Ecology and Evolution</i> , 2015, 6, 380-388. | 2.2 | 72 |
| 44 | Unveiling the speciesâ€rank abundance distribution by generalizing the Goodâ€Turing sample coverage theory. <i>Ecology</i> , 2015, 96, 1189-1201. | 1.5 | 70 |
| 45 | Primary determinants of communities in deadwood vary among taxa but are regionally consistent. <i>Oikos</i> , 2020, 129, 1579-1588. | 1.2 | 63 |
| 46 | Nonparametric prediction in species sampling. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2004, 9, 253-269. | 0.7 | 61 |
| 47 | Diversity from genes to ecosystems: A unifying framework to study variation across biological metrics and scales. <i>Evolutionary Applications</i> , 2018, 11, 1176-1193. | 1.5 | 60 |
| 48 | Native Fauna on Exotic Trees: Phylogenetic Conservatism and Geographic Contingency in Two Lineages of Phytophages on Two Lineages of Trees. <i>American Naturalist</i> , 2009, 173, 599-614. | 1.0 | 59 |
| 49 | Estimating retention benchmarks for salvage logging to protect biodiversity. <i>Nature Communications</i> , 2020, 11, 4762. | 5.8 | 54 |
| 50 | Quantifying evenness and linking it to diversity, beta diversity, and similarity. <i>Ecology</i> , 2019, 100, e02852. | 1.5 | 48 |
| 51 | Estimating the Richness of a Population When the Maximum Number of Classes Is Fixed: A Nonparametric Solution to an Archaeological Problem. <i>PLoS ONE</i> , 2012, 7, e34179. | 1.1 | 46 |
| 52 | Airborne LiDAR reveals context dependence in the effects of canopy architecture on arthropod diversity. <i>Forest Ecology and Management</i> , 2014, 312, 129-137. | 1.4 | 44 |
| 53 | Statistical Analysis of Paradigmatic Class Richness Supports Greater Paleoindian Projectile-Point Diversity in the Southeast. <i>American Antiquity</i> , 2016, 81, 174-192. | 0.6 | 44 |
| 54 | Modeling Animals' Behavioral Response by Markov Chain Models for Capture-Recapture Experiments. <i>Biometrics</i> , 2005, 61, 1010-1017. | 0.8 | 41 |

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|----|--|-----|-----------|
| 55 | Extracorporeal membrane oxygenation resuscitation for traumatic brain injury after decompressive craniotomy. <i>Clinical Neurology and Neurosurgery</i> , 2008, 110, 295-297. | 0.6 | 40 |
| 56 | The effect of natural disturbances on forest biodiversity: an ecological synthesis. <i>Biological Reviews</i> , 2022, 97, 1930-1947. | 4.7 | 40 |
| 57 | A Sample Coverage Approach to Multiple-System Estimation with Application to Census Undercount. <i>Journal of the American Statistical Association</i> , 1998, 93, 283-293. | 1.8 | 37 |
| 58 | Phylogenetic Diversity Measures and Their Decomposition: A Framework Based on Hill Numbers. <i>Topics in Biodiversity and Conservation</i> , 2016, , 141-172. | 0.3 | 36 |
| 59 | Capture-Recapture When Time and Behavioral Response Affect Capture Probabilities. <i>Biometrics</i> , 2000, 56, 427-433. | 0.8 | 32 |
| 60 | Expected Shannon Entropy and Shannon Differentiation between Subpopulations for Neutral Genes under the Finite Island Model. <i>PLoS ONE</i> , 2015, 10, e0125471. | 1.1 | 32 |
| 61 | Rarefaction and Extrapolation: Making Fair Comparison of Abundance-Sensitive Phylogenetic Diversity among Multiple Assemblages. <i>Systematic Biology</i> , 2017, 66, syw073. | 2.7 | 32 |
| 62 | Application of Extracorporeal Membrane Oxygenation in Adult Burn Patients. <i>Artificial Organs</i> , 2001, 25, 622-626. | 1.0 | 31 |
| 63 | Seen once or more than once: applying Good's Turing theory to estimate species richness using only unique observations and a species list. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1221-1232. | 2.2 | 31 |
| 64 | Abdominal Compartment Syndrome Secondary to Ovarian Mucinous Cystadenoma. <i>Obstetrics and Gynecology</i> , 2004, 104, 1180-1182. | 1.2 | 30 |
| 65 | The Petersen-Lincoln Estimator and its Extension to Estimate the Size of a Shared Population. <i>Biometrical Journal</i> , 2008, 50, 957-970. | 0.6 | 30 |
| 66 | APPLICATION OF LAPLACE'S BOUNDARY-MODE APPROXIMATIONS TO ESTIMATE SPECIES AND SHARED SPECIES RICHNESS. <i>Australian and New Zealand Journal of Statistics</i> , 2006, 48, 117-128. | 0.4 | 29 |
| 67 | Global distribution of coral diversity: Biodiversity knowledge gradients related to spatial resolution. <i>Ecological Research</i> , 2020, 35, 315-326. | 0.7 | 29 |
| 68 | Measuring temporal change in alpha diversity: A framework integrating taxonomic, phylogenetic and functional diversity and the iNEXT standardization. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1926-1940. | 2.2 | 29 |
| 69 | Population size estimation based on estimating functions for closed capture-recapture models. <i>Journal of Statistical Planning and Inference</i> , 2001, 92, 213-232. | 0.4 | 27 |
| 70 | Nonparametric Lower Bounds for Species Richness and Shared Species Richness under Sampling without Replacement. <i>Biometrics</i> , 2012, 68, 912-921. | 0.8 | 26 |
| 71 | Rare species, functional groups, and evolutionary lineages drive successional trajectories in disturbed forests. <i>Ecology</i> , 2020, 101, e02949. | 1.5 | 26 |
| 72 | Statistical challenges of evaluating diversity patterns across environmental gradients in mega-diverse communities. <i>Journal of Vegetation Science</i> , 2016, 27, 437-438. | 1.1 | 25 |

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|----|---|-----|-----------|
| 73 | Opposing mechanisms affect taxonomic convergence between tree assemblages during tropical forest succession. <i>Ecology Letters</i> , 2017, 20, 1448-1458. | 3.0 | 24 |
| 74 | Salvage logging changes the taxonomic, phylogenetic and functional successional trajectories of forest bird communities. <i>Journal of Applied Ecology</i> , 2020, 57, 1103-1112. | 1.9 | 23 |
| 75 | Estimating Population Size for Continuous-Time Capture-Recapture Models Via Sample Coverage. <i>Biometrical Journal</i> , 1993, 35, 29-45. | 0.6 | 22 |
| 76 | Correlation between early sublingual small vessel density and late blood lactate level in critically ill surgical patients. <i>Journal of Surgical Research</i> , 2013, 180, 317-321. | 0.8 | 22 |
| 77 | Analgesic Use in Intubated Patients during Acute Resuscitation. <i>Journal of Trauma</i> , 2006, 60, 579-582. | 2.3 | 21 |
| 78 | Highlighting Indication of extracorporeal membrane oxygenation in endocrine emergencies. <i>Scientific Reports</i> , 2015, 5, 13361. | 1.6 | 21 |
| 79 | Laser speckle contrast imaging for assessing microcirculatory changes in multiple splanchnic organs and the gracilis muscle during hemorrhagic shock and fluid resuscitation. <i>Microvascular Research</i> , 2015, 101, 55-61. | 1.1 | 19 |
| 80 | An estimating function approach to the inference of catch-effort models. <i>Environmental and Ecological Statistics</i> , 1999, 6, 313-334. | 1.9 | 18 |
| 81 | Network Signatures of IgG Immune Repertoires in Hepatitis B Associated Chronic Infection and Vaccination Responses. <i>Scientific Reports</i> , 2016, 6, 26556. | 1.6 | 18 |
| 82 | Acute pancreatitis secondary to primary hyperparathyroidism in a postpartum patient: A case report and literature review. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2014, 53, 252-255. | 0.5 | 17 |
| 83 | Deciphering the enigma of undetected species, phylogenetic, and functional diversity based on Good's T_2 theory. <i>Ecology</i> , 2017, 98, 2914-2929. | 1.5 | 17 |
| 84 | A nonparametric lower bound for the number of species shared by multiple communities. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2009, 14, 452-468. | 0.7 | 16 |
| 85 | Environment-induced changes in selective constraints on social learning during the peopling of the Americas. <i>Scientific Reports</i> , 2017, 7, 44431. | 1.6 | 16 |
| 86 | Ecological restoration increases conservation of taxonomic and functional beta diversity of woody plants in a tropical fragmented landscape. <i>Forest Ecology and Management</i> , 2019, 451, 117538. | 1.4 | 15 |
| 87 | Population size estimation using local sample coverage for open populations. <i>Journal of Statistical Planning and Inference</i> , 2003, 113, 699-714. | 0.4 | 13 |
| 88 | Comparing two classes of alpha diversities and their corresponding beta and (dis)similarity measures, with an application to the Formosan sika deer <i>Cervus nippon taiouanus</i> reintroduction programme. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1286-1297. | 2.2 | 13 |
| 89 | Forgotten books: The application of unseen species models to the survival of culture. <i>Science</i> , 2022, 375, 765-769. | 6.0 | 12 |
| 90 | Proportional mixture of two rarefaction/extrapolation curves to forecast biodiversity changes under landscape transformation. <i>Ecology Letters</i> , 2019, 22, 1913-1922. | 3.0 | 11 |

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|-----|--|-----|-----------|
| 91 | Evaluation of tracheal intubation: A retrospective study of skill acquisition by medical students in the operating theater. <i>Journal of the Formosan Medical Association</i> , 2015, 114, 855-859. | 0.8 | 10 |
| 92 | Ecosystem turnover in an urbanized subtropical seascape driven by climate and pollution. <i>Anthropocene</i> , 2021, 36, 100304. | 1.6 | 10 |
| 93 | Estimating population size from capture-recapture studies. <i>Stochastic Models</i> , 1996, 12, 17-35. | 0.3 | 8 |
| 94 | Estimating the population size with a behavioral response in capture-recapture experiment. <i>Environmental and Ecological Statistics</i> , 2000, 7, 405-414. | 1.9 | 8 |
| 95 | Performance of central venous catheterization by medical students: a retrospective study of students's logbooks. <i>BMC Medical Education</i> , 2014, 14, 168. | 1.0 | 7 |
| 96 | A Sample Coverage Approach to Multiple-System Estimation with Application to Census Undercount. , 0, . | | 7 |
| 97 | Residual Urine Output and Postoperative Mortality in Maintenance Hemodialysis Patients. <i>American Journal of Critical Care</i> , 2009, 18, 446-455. | 0.8 | 6 |
| 98 | Femoral neuropathy: a rare complication of retroperitoneal hematoma caused by cesarean section. <i>Archives of Gynecology and Obstetrics</i> , 2013, 287, 609-611. | 0.8 | 6 |
| 99 | Seroprevalence of influenza A H1N1 and seroconversion of mothers and infants induced by a single dose of monovalent vaccine. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2013, 52, 356-359. | 0.5 | 6 |
| 100 | The admission systemic inflammatory response syndrome predicts outcome in patients undergoing emergency surgery. <i>Asian Journal of Surgery</i> , 2013, 36, 99-103. | 0.2 | 6 |
| 101 | An atypical and fatal case of pyometra accompanied by the superficial spread of squamous cell carcinoma of the endometrium and the fallopian tubes. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2013, 52, 440-442. | 0.5 | 6 |
| 102 | ASYMPTOTIC PROPERTIES OF AN OPTIMAL ESTIMATING FUNCTION APPROACH TO THE ANALYSIS OF MARK RECAPTURE DATA. <i>Communications in Statistics - Theory and Methods</i> , 2002, 31, 575-595. | 0.6 | 5 |
| 103 | Right ventricular exclusion for hepatocellular carcinoma metastatic to the heart. <i>Journal of Cardiothoracic Surgery</i> , 2010, 5, 95. | 0.4 | 5 |
| 104 | The applications of capture-recapture models to epidemiological data. , 2001, 20, 3123. | | 4 |
| 105 | Benthic ostracod diversity and biogeography in an urbanized seascape. <i>Marine Micropaleontology</i> , 2022, 174, 102067. | 0.5 | 4 |
| 106 | Successful childbirth after extracorporeal membrane oxygenation in previous pregnancy: two case reports. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2016, 198, 168-169. | 0.5 | 3 |
| 107 | The Application of Capture-Recapture Methods in Reliability Studies. , 2003, , 493-510. | | 1 |
| 108 | Epidemiology: The Applications of Capture-Recapture Models to Epidemiological Data. , 2005, , 31-65. | | 1 |

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|-----|--|-----|-----------|
| 109 | Anesthesia for the first successful HeartMate II left ventricular assist device implantation in Taiwan. Journal of the Formosan Medical Association, 2014, 113, 879-880. | 0.8 | 1 |
| 110 | THE USE OF CAPTURE-RECAPTURE METHODOLOGY IN EPIDEMIOLOGICAL SURVEILLANCE. , 2003, , 711-739. | | 0 |
| 111 | THE USE OF CAPTUREâ€“RECAPTURE METHODOLOGY IN EPIDEMIOLOGICAL SURVEILLANCE AND ECOLOGICAL SURVEYS. , 2015, , 425-467. | | 0 |
| 112 | A retrospective study of endotracheal intubation skill acquired by medical students in the operating theater. Journal of the Formosan Medical Association, 2016, 115, 293. | 0.8 | 0 |
| 113 | Remembering Chen Wenâ€“chen. Significance, 2021, 18, 38-38. | 0.3 | 0 |
| 114 | Chen Wenâ€“chen's academic contributions. Significance, 2021, 18, 39-39. | 0.3 | 0 |