

Anne Chao

List of Publications by Year in descending order

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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	Benthic ostracod diversity and biogeography in an urbanized seascape. <i>Marine Micropaleontology</i> , 2022, 174, 102067.	0.5	4
2	Forgotten books: The application of unseen species models to the survival of culture. <i>Science</i> , 2022, 375, 765-769.	6.0	12
3	The effect of natural disturbances on forest biodiversity: an ecological synthesis. <i>Biological Reviews</i> , 2022, 97, 1930-1947.	4.7	40
4	Measuring temporal change in alpha diversity: A framework integrating taxonomic, phylogenetic and functional diversity and the <sc>iNEXT.3D</sc> standardization. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1926-1940.	2.2	29
5	Ecosystem turnover in an urbanized subtropical seascape driven by climate and pollution. <i>Anthropocene</i> , 2021, 36, 100304.	1.6	10
6	Remembering Chen Wenâ€chen. <i>Significance</i> , 2021, 18, 38-38.	0.3	0
7	Chen Wenâ€chen's academic contributions. <i>Significance</i> , 2021, 18, 39-39.	0.3	0
8	Rare species, functional groups, and evolutionary lineages drive successional trajectories in disturbed forests. <i>Ecology</i> , 2020, 101, e02949.	1.5	26
9	Estimating retention benchmarks for salvage logging to protect biodiversity. <i>Nature Communications</i> , 2020, 11, 4762.	5.8	54
10	Global distribution of coral diversity: Biodiversity knowledge gradients related to spatial resolution. <i>Ecological Research</i> , 2020, 35, 315-326.	0.7	29
11	Primary determinants of communities in deadwood vary among taxa but are regionally consistent. <i>Oikos</i> , 2020, 129, 1579-1588.	1.2	63
12	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
13	Quantifying sample completeness and comparing diversities among assemblages. <i>Ecological Research</i> , 2020, 35, 292-314.	0.7	141
14	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
15	Quantifying evenness and linking it to diversity, beta diversity, and similarity. <i>Ecology</i> , 2019, 100, e02852.	1.5	48
16	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
17	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
18	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

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19	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
20	Rarefaction and Extrapolation: Making Fair Comparison of Abundance-Sensitive Phylogenetic Diversity among Multiple Assemblages. <i>Systematic Biology</i> , 2017, 66, syw073.	2.7	32
21	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
22	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
23	Opposing mechanisms affect taxonomic convergence between tree assemblages during tropical forest succession. <i>Ecology Letters</i> , 2017, 20, 1448-1458.	3.0	24
24	Deciphering the enigma of undetected species, phylogenetic, and functional diversity based on Good's "Turing theory. <i>Ecology</i> , 2017, 98, 2914-2929.	1.5	17
25	Estimating and comparing microbial diversity in the presence of sequencing errors. <i>PeerJ</i> , 2016, 4, e1634.	0.9	73
26	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
27	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
28	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
29	iNEXT: an R package for rarefaction and extrapolation of species diversity (H numbers). <i>Methods in Ecology and Evolution</i> , 2016, 7, 1451-1456.	2.2	2,368
30	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
31	A retrospective study of endotracheal intubation skill acquired by medical students in the operating theater. <i>Journal of the Formosan Medical Association</i> , 2016, 115, 293.	0.8	0
32	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
33	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
34	Highlighting Indication of extracorporeal membrane oxygenation in endocrine emergencies. <i>Scientific Reports</i> , 2015, 5, 13361.	1.6	21
35	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
36	THE USE OF CAPTURE-RECAPTURE METHODOLOGY IN EPIDEMIOLOGICAL SURVEILLANCE AND ECOLOGICAL SURVEYS. , 2015, , 425-467.		0

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37	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
38	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
39	Unveiling the species rank abundance distribution by generalizing the Good-Turing sample coverage theory. <i>Ecology</i> , 2015, 96, 1189-1201.	1.5	70
40	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
41	Rarefaction and extrapolation of phylogenetic diversity. <i>Methods in Ecology and Evolution</i> , 2015, 6, 380-388.	2.2	72
42	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
43	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
44	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
45	Performance of central venous catheterization by medical students: a retrospective study of students' logbooks. <i>BMC Medical Education</i> , 2014, 14, 168.	1.0	7
46	Anesthesia for the first successful HeartMate II left ventricular assist device implantation in Taiwan. <i>Journal of the Formosan Medical Association</i> , 2014, 113, 879-880.	0.8	1
47	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
48	Phylogenetic beta diversity, similarity, and differentiation measures based on Hill numbers. <i>Ecological Monographs</i> , 2014, 84, 21-44.	2.4	107
49	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
50	Distance-Based Functional Diversity Measures and Their Decomposition: A Framework Based on Hill Numbers. <i>PLoS ONE</i> , 2014, 9, e100014.	1.1	132
51	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
52	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
53	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
54	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

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55	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
56	Quantifying temporal change in biodiversity: challenges and opportunities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20121931.	1.2	178
57	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
58	Measuring and Estimating Species Richness, Species Diversity, and Biotic Similarity from Sampling Data. , 2013, , 195-211.		307
59	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
60	Proposing a resolution to debates on diversity partitioning. <i>Ecology</i> , 2012, 93, 2037-2051.	1.5	275
61	Coverage-based rarefaction and extrapolation: standardizing samples by completeness rather than size. <i>Ecology</i> , 2012, 93, 2533-2547.	1.5	1,353
62	Nonparametric Lower Bounds for Species Richness and Shared Species Richness under Sampling without Replacement. <i>Biometrics</i> , 2012, 68, 912-921.	0.8	26
63	A novel statistical method for classifying habitat generalists and specialists. <i>Ecology</i> , 2011, 92, 1332-1343.	1.5	203
64	Partitioning diversity for conservation analyses. <i>Diversity and Distributions</i> , 2010, 16, 65-76.	1.9	216
65	Right ventricular exclusion for hepatocellular carcinoma metastatic to the heart. <i>Journal of Cardiothoracic Surgery</i> , 2010, 5, 95.	0.4	5
66	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
67	Residual Urine Output and Postoperative Mortality in Maintenance Hemodialysis Patients. <i>American Journal of Critical Care</i> , 2009, 18, 446-455.	0.8	6
68	Resilience of tropical rain forests: tree community reassembly in secondary forests. <i>Ecology Letters</i> , 2009, 12, 385-394.	3.0	255
69	Patterns and causes of species richness: a general simulation model for macroecology. <i>Ecology Letters</i> , 2009, 12, 873-886.	3.0	286
70	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
71	Sufficient sampling for asymptotic minimum species richness estimators. <i>Ecology</i> , 2009, 90, 1125-1133.	1.5	420
72	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

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73	Diversity and geographic distribution of ciliates (Protista: Ciliophora). <i>Biodiversity and Conservation</i> , 2008, 17, 345-363.	1.2	187
74	The Petersen's Lincoln Estimator and its Extension to Estimate the Size of a Shared Population. <i>Biometrical Journal</i> , 2008, 50, 957-970.	0.6	30
75	A Two-Stage Probabilistic Approach to Multiple-Community Similarity Indices. <i>Biometrics</i> , 2008, 64, 1178-1186.	0.8	168
76	Extracorporeal membrane oxygenation resuscitation for traumatic brain injury after decompressive craniotomy. <i>Clinical Neurology and Neurosurgery</i> , 2008, 110, 295-297.	0.6	40
77	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
78	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
79	Analgesic Use in Intubated Patients during Acute Resuscitation. <i>Journal of Trauma</i> , 2006, 60, 579-582.	2.3	21
80	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
81	Abundance-Based Similarity Indices and Their Estimation When There Are Unseen Species in Samples. <i>Biometrics</i> , 2006, 62, 361-371.	0.8	474
82	Epidemiology: The Applications of Capture-Recapture Models to Epidemiological Data. , 2005, , 31-65.		1
83	Modeling Animals' Behavioral Response by Markov Chain Models for Capture-Recapture Experiments. <i>Biometrics</i> , 2005, 61, 1010-1017.	0.8	41
84	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
85	Nonparametric prediction in species sampling. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2004, 9, 253-269.	0.7	61
86	Abdominal Compartment Syndrome Secondary to Ovarian Mucinous Cystadenoma. <i>Obstetrics and Gynecology</i> , 2004, 104, 1180-1182.	1.2	30
87	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
88	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
89	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
90	PREDICTING THE NUMBER OF NEW SPECIES IN FURTHER TAXONOMIC SAMPLING. <i>Ecology</i> , 2003, 84, 798-804.	1.5	128

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91	THE USE OF CAPTURE-RECAPTURE METHODOLOGY IN EPIDEMIOLOGICAL SURVEILLANCE. , 2003, , 711-739.		0
92	The Application of Capture-Recapture Methods in Reliability Studies. , 2003, , 493-510.		1
93	ASYMPTOTIC PROPERTIES OF AN OPTIMAL ESTIMATING FUNCTION APPROACH TO THE ANALYSIS OF MARK RECAPTURE DATA. Communications in Statistics - Theory and Methods, 2002, 31, 575-595.	0.6	5
94	Estimating the Number of Species in a Stochastic Abundance Model. Biometrics, 2002, 58, 531-539.	0.8	433
95	Population size estimation based on estimating functions for closed capture-recapture models. Journal of Statistical Planning and Inference, 2001, 92, 213-232.	0.4	27
96	Application of Extracorporeal Membrane Oxygenation in Adult Burn Patients. Artificial Organs, 2001, 25, 622-626.	1.0	31
97	The applications of capture-recapture models to epidemiological data. Statistics in Medicine, 2001, 20, 3123-3157.	0.8	264
98	An overview of closed capture-recapture models. Journal of Agricultural, Biological, and Environmental Statistics, 2001, 6, 158-175.	0.7	144
99	The applications of capture-recapture models to epidemiological data. , 2001, 20, 3123.		4
100	Seasonal variation in suicides: diminished or vanished. British Journal of Psychiatry, 2000, 177, 366-369.	1.7	111
101	Capture-Recapture When Time and Behavioral Response Affect Capture Probabilities. Biometrics, 2000, 56, 427-433.	0.8	32
102	Estimating the population size with a behavioral response in capture-recapture experiment. Environmental and Ecological Statistics, 2000, 7, 405-414.	1.9	8
103	An estimating function approach to the inference of catch-effort models. Environmental and Ecological Statistics, 1999, 6, 313-334.	1.9	18
104	A Sample Coverage Approach to Multiple-System Estimation with Application to Census Undercount. Journal of the American Statistical Association, 1998, 93, 283-293.	1.8	37
105	Estimating population size from capture-recapture studies. Stochastic Models, 1996, 12, 17-35.	0.3	8
106	Estimating Population Size Via Sample Coverage for Closed Capture-Recapture Models. Biometrics, 1994, 50, 88.	0.8	365
107	Estimating Population Size for Continuous-Time Capture-Recapture Models Via Sample Coverage. Biometrical Journal, 1993, 35, 29-45.	0.6	22
108	Stopping rules and estimation for recapture debugging with unequal failure rates. Biometrika, 1993, 80, 193-201.	1.3	398

#	ARTICLE	IF	CITATIONS
109	Estimating the Number of Classes via Sample Coverage. Journal of the American Statistical Association, 1992, 87, 210-217.	1.8	1,040
110	Estimating Population Size for Capture-Recapture Data When Capture Probabilities Vary by Time and Individual Animal. Biometrics, 1992, 48, 201.	0.8	248
111	Estimating Population Size for Sparse Data in Capture-Recapture Experiments. Biometrics, 1989, 45, 427.	0.8	302
112	Estimating the Population Size for Capture-Recapture Data with Unequal Catchability. Biometrics, 1987, 43, 783.	0.8	1,841
113	Estimating the Number of Classes via Sample Coverage. , 0, .		165
114	A Sample Coverage Approach to Multiple-System Estimation with Application to Census Undercount. , 0, .		7