Juan JosÃ© Egozcue

List of Publications by Year
in descending order

107 papers	7,355 citations	172457 29 h-index	69250 77 g-index
133 all docs	133 docs citations	133 times ranked	7441 citing authors

#	Article	IF	Citations
1	Microbiome Datasets Are Compositional: And This Is Not Optional. Frontiers in Microbiology, 2017, 8, 2224.	3.5	1,794
2	Isometric Logratio Transformations for Compositional Data Analysis. Mathematical Geosciences, 2003, 35, 279-300.	0.9	1,354
3	Groups of Parts and Their Balances in Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 795-828.	0.9	464
4	Geometric approach to statistical analysis on the simplex. Stochastic Environmental Research and Risk Assessment, 2001, 15, 384-398.	4.0	284
5	Compositional Data Analysis: Where Are We and Where Should We Be Heading?. Mathematical Geosciences, 2005, 37, 829-850.	0.9	282
6	Proportionality: A Valid Alternative to Correlation for Relative Data. PLoS Computational Biology, 2015, 11, e1004075.	3.2	232
7	It's all relative: analyzing microbiome data as compositions. Annals of Epidemiology, 2016, 26, 322-329.	1.9	216
8	Compositional data and their analysis: an introduction. Geological Society Special Publication, 2006, 264, 1-10.	1.3	196
9	Balances: a New Perspective for Microbiome Analysis. MSystems, 2018, 3, .	3.8	188
10	A nonparametric method for the measurement of size diversity with emphasis on data standardization. Limnology and Oceanography: Methods, 2008, 6, 75-86.	2.0	89
11	Title is missing!. Mathematical Geosciences, 2002, 34, 249-257.	0.9	83
12	BLU Estimators and Compositional Data. Mathematical Geosciences, 2002, 34, 259-274.	0.9	83
13	Coda-Q Distribution In the Iberian Peninsula. Geophysical Journal International, 1990, 100, 285-301.	2.4	76
14	Hilbert Space of Probability Density Functions Based on Aitchison Geometry. Acta Mathematica Sinica, English Series, 2006, 22, 1175-1182.	0.6	75
15	The Plant Ionome Revisited by the Nutrient Balance Concept. Frontiers in Plant Science, 2013, 4, 39.	3.6	74
16	Bayes Hilbert Spaces. Australian and New Zealand Journal of Statistics, 2014, 56, 171-194.	0.9	72
17	Compositional data: the sample space and its structure. Test, 2019, 28, 599-638.	1.1	69
18	Simplicial geometry for compositional data. Geological Society Special Publication, 2006, 264, 145-159.	1.3	60

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19	Advances in Principal Balances for Compositional Data. Mathematical Geosciences, 2018, 50, 273-298.	2.4	60
20	Reply to â€œOn the Harker Variation Diagrams; â€¦ â€•byÂJ.A.ÂCortÃ©s. Mathematical Geosciences, 2009, 41, 829-834.	2.4	57
21	Long-term impact of fecal transplantation in healthy volunteers. BMC Microbiology, 2019, 19, 312.	3.3	55
22	Tools for compositional data with a total. Statistical Modelling, 2015, 15, 175-190.	1.1	50
23	Spatial analysis of compositional data: A historical review. Journal of Geochemical Exploration, 2016, 164, 28-32.	3.2	50
24	Linear Association in Compositional Data Analysis. Austrian Journal of Statistics, 2018, 47, 3-31.	0.6	44
25	WHAT CAN BE CONCLUDED ABOUT SEISMIC HISTORY FROM BROKEN AND UNBROKEN SPELEOTHEMS?. Journal of Earthquake Engineering, 2004, 8, 431-455.	2.5	41
26	Predation and competition effects on the size diversity of aquatic communities. Aquatic Sciences, 2015, 77, 45-57.	1.5	41
27	Differential effects of genetic vs. environmental quality in Drosophila melanogaster suggest multiple forms of condition dependence. Ecology Letters, 2015, 18, 317-326.	6.4	38
28	Indicator Kriging without Order Relation Violations. Mathematical Geosciences, 2008, 40, 327-347.	2.4	36
29	Compositional Data Analysis in Population Studies. Annals of the American Association of Geographers, 2012, 102, 1251-1266.	3.0	35
30	Compositional analysis for an unbiased measure of soil aggregation. Geoderma, 2012, 179-180, 123-131.	5.1	31
31	Changing the Reference Measure in the Simplex and its Weighting Effects. Austrian Journal of Statistics, 2016, 45, 25-44.	0.6	29
32	Extremes from scarce data: The role of Bayesian and scaling techniques in reducing uncertainty. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 224-234.	1.7	28
33	A method to estimate intensity occurrence probabilities in low seismic activity regions. Earthquake Engineering and Structural Dynamics, 1991, 20, 43-60.	4.4	26
34	Compositional data analysis as a robust tool to delineate hydrochemical facies within and between gasâ€bearing aquifers. Water Resources Research, 2016, 52, 5771-5793.	4.2	24
35	Bayes spaces: use of improper distributions and exponential families. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2013, 107, 475-486.	1.2	23
36	Independence in Contingency Tables Using Simplicial Geometry. Communications in Statistics - Theory and Methods, 2015, 44, 3978-3996.	1.0	23

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37	Advancements in hydrochemistry mapping: methods and application to groundwater arsenic and iron concentrations in Varanasi, Uttar Pradesh, India. Stochastic Environmental Research and Risk Assessment, 2018, 32, 241-259.	4.0	23
38	Wave-height hazard analysis in Eastern Coast of Spain - Bayesian approach using generalized Pareto distribution. Advances in Geosciences, 0, 2, 25-30.	12.0	23
39	Balance-dendrogram. A new routine of CoDaPack. Computers and Geosciences, 2008, 34, 1682-1696.	4.2	22
40	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. Journal of Hydrology, 2014, 519, 988-998.	5.4	19
41	A compositional analysis approach to phytoplankton composition inÂcoastal Mediterranean wetlands: Influence of salinity and nutrient availability. Estuarine, Coastal and Shelf Science, 2014, 136, 72-81.	2.1	18
42	Air Quality Index Revisited from a Compositional Point of View. Mathematical Geosciences, 2016, 48, 581-593.	2.4	18
43	The effect of scale in daily precipitation hazard assessment. Natural Hazards and Earth System Sciences, 2006, 6, 459-470.	3.6	17
44	Bayesian estimation of seismic hazard for two sites in Switzerland. Natural Hazards, 1997, 14, 165-178.	3.4	14
45	Weighting the domain of probability densities in functional data analysis. Stat, 2020, 9, e283.	0.4	13
46	Update: A nonâ€parametric method for the measurement of size diversity, with emphasis on data standardization. The measurement of the size evenness. Limnology and Oceanography: Methods, 2016, 14, 408-413.	2.0	12
47	Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133.	3.2	12
48	Compositional Data in Geostatistics: A Log-Ratio Based Framework to Analyze Regionalized Compositions. Mathematical Geosciences, 2020, 52, 1067-1084.	2.4	12
49	Cokriging of compositional balances including a dimension reduction and retrieval of original units. Journal of the South African Institute of Mining and Metallurgy, 2015, 115, 59-72.	0.5	12
50	Calorific value and compositional ultimate analysis with a case study of a Texas lignite. International Journal of Coal Geology, 2016, 162, 27-33.	5.0	11
51	The impact of the compositional nature of data on coal reserve evaluation, a case study in Parvadeh IV coal deposit, Central Iran. International Journal of Coal Geology, 2018, 188, 94-111.	5.0	11
52	Chronic kidney disease of unknown origin is associated with environmental urbanisation in Belfast, UK. Environmental Geochemistry and Health, 2020, 43, 2597-2614.	3.4	11
53	Assessment of seismic hazard for the Sannio-Matese area of Southern Italy ? A summary. Natural Hazards, 1989, 2, 217-228.	3.4	10
54	Assessing wavestorm hazard evolution in the NW Mediterranean with hindcast and buoy data. Climatic Change, 2012, 113, 713-731.	3.6	10

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55	Bounds for the moduli of zeros. Applied Mathematics Letters, 2004, 17, 993-996.	2.7	9
56	A generalization of the Gauss-Lucas theorem. Czechoslovak Mathematical Journal, 2008, 58, 481-486.	0.3	9
57	Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488.	2.4	9
58	Simplicial Indicator Kriging. Journal of China University of Geosciences, 2008, 19, 65-71.	0.5	9
59	Compositional data techniques for the analysis of the container traffic share in a multi-port region. European Transport Research Review, 2019, 11, .	4.8	9
60	Investigating the influence of environmental factors on the incidence of renal disease with compositional data analysis using balances. Applied Computing and Geosciences, 2020, 6, 100024.	2.2	9
61	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. Science of the Total Environment, 2022, 812, 152383.	8.0	9
62	Seismic hazard assessment in TERESA test areas based on a Bayesian technique. Natural Hazards, 1989, 2, 249-265.	3.4	8
63	Bayesian techniques for seismic hazard assessment using imprecise data. Natural Hazards, 1997, 14, 91-112.	3.4	8
64	Units Recovery Methods in Compositional Data Analysis. Natural Resources Research, 2021, 30, 3045-3058.	4.7	8
65	A new autoregressive moving average modeling of H/V spectral ratios to estimate the ground resonance frequency. Engineering Geology, 2021, 280, 105957.	6.3	8
66	Differential Models for Evolutionary Compositions. Mathematical Geosciences, 2014, 46, 381-410.	2.4	7
67	Wave height data assimilation using non-stationary kriging. Computers and Geosciences, 2011, 37, 363-370.	4.2	6
68	Rejoinder on: Compositional data: the sample space and its structure. Test, 2019, 28, 658-663.	1.1	6
69	Weighting of Parts in Compositional Data Analysis: Advances and Applications. Mathematical Geosciences, 2022, 54, 71-93.	2.4	6
70	PROBABILISTIC ANALYSIS OF AN A POSTERIORI ERROR ESTIMATOR FOR FINITE ELEMENTS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 841-854.	3.3	5
71	Climate change in a Point-Over-Threshold model: an example on ocean-wave-storm hazard in NE Spain. Advances in Geosciences, 2010, 26, 113-117.	12.0	5
72	The total bootstrap median: a robust and efficient estimator of location and scale for small samples. Journal of Applied Statistics, 2015, 42, 1306-1321.	1.3	5

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73	Noâ€arbitrage matrices of exchange rates: Some characterizations. International Journal of Economic Theory, 2019, , .	0.6	5
74	Scale effect in hazard assessment - application to daily rainfall. Advances in Geosciences, 0, 2, 117-121.	12.0	5
75	Seismic hazard computations for regions with low earthquake activity â€" A case study for the Belgium, The Netherlands and NW Germany area. Natural Hazards, 1989, 2, 229-236.	3.4	4
76	Bayesian Approach to the Treatment of Uncertainty in Seismic Data. Journal of the Royal Statistical Society: Series D (the Statistician), 1993, 42, 513.	0.2	4
77	Copying computer-generated-holographic interconnects by the use of partially coherent light. Applied Optics, 1994, 33, 1431.	2.1	4
78	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 431.	2.5	4
79	Classifying wave forecasts with model-based Geostatistics and the Aitchison distribution. Stochastic Environmental Research and Risk Assessment, 2011, 25, 1091-1100.	4.0	4
80	Bayesian trend analysis of extreme wind using observed and hindcast series off the Catalan coast, NW Mediterranean Sea. Natural Hazards and Earth System Sciences, 2014, 14, 2387-2397.	3.6	4
81	Bayesian estimation of the orthogonal decomposition of a contingency table. Austrian Journal of Statistics, 2016, 45, 45-56.	0.6	4
82	Bayesian trend analysis for daily rainfall series of Barcelona. Advances in Geosciences, 0, 26, 71-76.	12.0	4
83	Estimation of seismic hazard parameters in TERESA test areas. Natural Hazards, 1989, 2, 289-306.	3.4	3
84	Normalized Maximum-Likelihood Estimators of the Directional Wave Spectrum. Journal of Atmospheric and Oceanic Technology, 1995, 12, 668-673.	1.3	3
85	Vulnerability models for environmental risk assessment. Application to a nuclear power plant containment building. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2287-2301.	4.0	3
86	Some thoughts on counts in sequencing studies. NAR Genomics and Bioinformatics, 2020, 2, lqaa094.	3.2	3
87	Comparison of two methods for seismic hazard assessment in a low-seismicity area. Natural Hazards, 1992, 6, 39-49.	3.4	2
88	On the Ky Fan inequality and some of its applications. Computers and Mathematics With Applications, 2008, 56, 2279-2284.	2.7	2
89	Distributions on the Simplex Revisited. , 2021, , 61-82.		2
90	Modelling Compositional Data. The Sample Space Approach. , 2018, , 81-103.		2

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91	Analysis of the average efficiency of an error estimator. , 2017, , 113-126.		2
92	A compositional approach to in-situ evaluation of polymetallic deposits. A case study at Sungun Cuâ’Mo deposit, NW Iran. Journal of Geochemical Exploration, 2022, 237, 106981.	3.2	2
93	Safety Control of Prestressing in Nuclear Plants. Journal of Structural Engineering, 1995, 121, 1722-1725.	3.4	1
94	Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793.	3.2	1
95	Error estimation for linear and nonlinear problems. , 2017, , 183-194.		1
96	Representation of Species Composition. Springer Proceedings in Mathematics and Statistics, 2016, , 167-180.	0.2	1
97	Survey Data on Perceptions of Contraceptive Methods as Compositional Tables. Revista Latinoamericana De Psicologia, 2018, 50, .	0.3	1
98	Effect of Boussinesq Equations on Wave Spectra Propagation. , 1989, , 350.		0
99	Evaluation of seismic hazard at Roermond, The Netherlands: A comparison of results after the 13 April 1992 earthquake. Natural Hazards, 1996, 13, 297.	3.4	0
100	Reflection coefficients counterpart of Cardan-Viete formulas. IEEE Transactions on Signal Processing, 2001, 49, 1745-1747.	5.3	0
101	11008. American Mathematical Monthly, 2003, 110, 340.	0.3	0
102	Space-Time Compositional Models: An Introduction to Simplicial Partial Differential Operators. Springer Proceedings in Mathematics and Statistics, 2016, , 117-125.	0.2	0
103	Chronic Kidney Disease of Uncertain Aetiology and Its Relation with Waterborne Environmental Toxins: An Investigation via Compositional Balances. , 2021, , 285-302.		0
104	Compositional Analysis of Exchange Rates. , 2021, , 489-507.		0
105	Modeling Extremal Dependence Using Copulas. Application to Rainfall Data. Lecture Notes in Earth System Sciences, 2014, , 53-56.	0.6	0
106	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37.		0
107	Compositional Data. Encyclopedia of Earth Sciences Series, 2021, , 1-11.	0.1	0