# Juan JosÃ© Egozcue

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Weighting of Parts in Compositional Data Analysis: Advances and Applications. Mathematical Geosciences, 2022, 54, 71-93. | 2.4 | 6 |
| 2 | Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. Science of the Total Environment, 2022, 812, 152383. | 8.0 | 9 |
| 3 | 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 |
| 4 | Units Recovery Methods in Compositional Data Analysis. Natural Resources Research, 2021, 30, 3045-3058. | 4.7 | 8 |
| 5 | 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 |
| 6 | Distributions on the Simplex Revisited. , 2021, , 61-82. | | 2 |
| 7 | Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793. | 3.2 | 1 |
| 8 | Chronic Kidney Disease of Uncertain Aetiology and Its Relation with Waterborne Environmental Toxins: An Investigation via Compositional Balances. , 2021, , 285-302. | | 0 |
| 9 | Compositional Analysis of Exchange Rates. , 2021, , 489-507. | | 0 |
| 10 | Compositional Data. Encyclopedia of Earth Sciences Series, 2021, , 1-11. | 0.1 | 0 |
| 11 | Weighting the domain of probability densities in functional data analysis. Stat, 2020, 9, e283. | 0.4 | 13 |
| 12 | Compositional Data in Geostatistics: A Log-Ratio Based Framework to Analyze Regionalized Compositions. Mathematical Geosciences, 2020, 52, 1067-1084. | 2.4 | 12 |
| 13 | 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 |
| 14 | 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 |
| 15 | Some thoughts on counts in sequencing studies. NAR Genomics and Bioinformatics, 2020, 2, lqaa094. | 3.2 | 3 |
| 16 | Compositional data: the sample space and its structure. Test, 2019, 28, 599-638. | 1.1 | 69 |
| 17 | Rejoinder on: Compositional data: the sample space and its structure. Test, 2019, 28, 658-663. | 1.1 | 6 |
| 18 | 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 |

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| 19 | Noâ€arbitrage matrices of exchange rates: Some characterizations. International Journal of Economic Theory, 2019, , . | 0.6 | 5 |
| 20 | Long-term impact of fecal transplantation in healthy volunteers. BMC Microbiology, 2019, 19, 312. | 3.3 | 55 |
| 21 | 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 |
| 22 | 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 |
| 23 | Advances in Principal Balances for Compositional Data. Mathematical Geosciences, 2018, 50, 273-298. | 2.4 | 60 |
| 24 | Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133. | 3.2 | 12 |
| 25 | Balances: a New Perspective for Microbiome Analysis. MSystems, 2018, 3, . | 3.8 | 188 |
| 26 | Modelling Compositional Data. The Sample Space Approach. , 2018, , 81-103. | | 2 |
| 27 | Linear Association in Compositional Data Analysis. Austrian Journal of Statistics, 2018, 47, 3-31. | 0.6 | 44 |
| 28 | Survey Data on Perceptions of Contraceptive Methods as Compositional Tables. Revista Latinoamericana De Psicologia, 2018, 50, . | 0.3 | 1 |
| 29 | Microbiome Datasets Are Compositional: And This Is Not Optional. Frontiers in Microbiology, 2017, 8, 2224. | 3.5 | 1,794 |
| 30 | Error estimation for linear and nonlinear problems. , 2017, , 183-194. | | 1 |
| 31 | Analysis of the average efficiency of an error estimator. , 2017, , 113-126. | | 2 |
| 32 | It's all relative: analyzing microbiome data as compositions. Annals of Epidemiology, 2016, 26, 322-329. | 1.9 | 216 |
| 33 | 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 |
| 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 | Space-Time Compositional Models: An Introduction to Simplicial Partial Differential Operators. Springer Proceedings in Mathematics and Statistics, 2016, , 117-125. | 0.2 | 0 |
| 36 | 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 |

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| 37 | 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 |
| 38 | Air Quality Index Revisited from a Compositional Point of View. Mathematical Geosciences, 2016, 48, 581-593. | 2.4 | 18 |
| 39 | Spatial analysis of compositional data: A historical review. Journal of Geochemical Exploration, 2016, 164, 28-32. | 3.2 | 50 |
| 40 | Changing the Reference Measure in the Simplex and its Weighting Effects. Austrian Journal of Statistics, 2016, 45, 25-44. | 0.6 | 29 |
| 41 | Bayesian estimation of the orthogonal decomposition of a contingency table. Austrian Journal of Statistics, 2016, 45, 45-56. | 0.6 | 4 |
| 42 | Representation of Species Composition. Springer Proceedings in Mathematics and Statistics, 2016, , 167-180. | 0.2 | 1 |
| 43 | Independence in Contingency Tables Using Simplicial Geometry. Communications in Statistics - Theory and Methods, 2015, 44, 3978-3996. | 1.0 | 23 |
| 44 | Predation and competition effects on the size diversity of aquatic communities. Aquatic Sciences, 2015, 77, 45-57. | 1.5 | 41 |
| 45 | 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 |
| 46 | 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 |
| 47 | Proportionality: A Valid Alternative to Correlation for Relative Data. PLoS Computational Biology, 2015, 11, e1004075. | 3.2 | 232 |
| 48 | Tools for compositional data with a total. Statistical Modelling, 2015, 15, 175-190. | 1.1 | 50 |
| 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 | 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 |
| 51 | Bayes Hilbert Spaces. Australian and New Zealand Journal of Statistics, 2014, 56, 171-194. | 0.9 | 72 |
| 52 | 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 |
| 53 | Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. Journal of Hydrology, 2014, 519, 988-998. | 5.4 | 19 |
| 54 | Differential Models for Evolutionary Compositions. Mathematical Geosciences, 2014, 46, 381-410. | 2.4 | 7 |

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| 55 | Modeling Extremal Dependence Using Copulas. Application to Rainfall Data. Lecture Notes in Earth System Sciences, 2014, , 53-56. | 0.6 | 0 |
| 56 | 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 |
| 57 | The Plant Ionome Revisited by the Nutrient Balance Concept. Frontiers in Plant Science, 2013, 4, 39. | 3.6 | 74 |
| 58 | Compositional analysis for an unbiased measure of soil aggregation. Geoderma, 2012, 179-180, 123-131. | 5.1 | 31 |
| 59 | Compositional Data Analysis in Population Studies. Annals of the American Association of Geographers, 2012, 102, 1251-1266. | 3.0 | 35 |
| 60 | Assessing wavestorm hazard evolution in the NW Mediterranean with hindcast and buoy data. Climatic Change, 2012, 113, 713-731. | 3.6 | 10 |
| 61 | Wave height data assimilation using non-stationary kriging. Computers and Geosciences, 2011, 37, 363-370. | 4.2 | 6 |
| 62 | Classifying wave forecasts with model-based Geostatistics and the Aitchison distribution. Stochastic Environmental Research and Risk Assessment, 2011, 25, 1091-1100. | 4.0 | 4 |
| 63 | 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 |
| 64 | Reply to â€œOn the Harker Variation Diagrams; â€¦â€•byÂJ.A.ÂCortÃ©s. Mathematical Geosciences, 2009, 41, 829-834. | 2.4 | 57 |
| 65 | On the Ky Fan inequality and some of its applications. Computers and Mathematics With Applications, 2008, 56, 2279-2284. | 2.7 | 2 |
| 66 | A generalization of the Gauss-Lucas theorem. Czechoslovak Mathematical Journal, 2008, 58, 481-486. | 0.3 | 9 |
| 67 | Indicator Kriging without Order Relation Violations. Mathematical Geosciences, 2008, 40, 327-347. | 2.4 | 36 |
| 68 | Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488. | 2.4 | 9 |
| 69 | 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 |
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| 71 | Simplicial Indicator Kriging. Journal of China University of Geosciences, 2008, 19, 65-71. | 0.5 | 9 |
| 72 | 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 |

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| 73 | Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37. | | 0 |
| 74 | Compositional data and their analysis: an introduction. Geological Society Special Publication, 2006, 264, 1-10. | 1.3 | 196 |
| 75 | The effect of scale in daily precipitation hazard assessment. Natural Hazards and Earth System Sciences, 2006, 6, 459-470. | 3.6 | 17 |
| 76 | Hilbert Space of Probability Density Functions Based on Aitchison Geometry. Acta Mathematica Sinica, English Series, 2006, 22, 1175-1182. | 0.6 | 75 |
| 77 | Simplicial geometry for compositional data. Geological Society Special Publication, 2006, 264, 145-159. | 1.3 | 60 |
| 78 | Groups of Parts and Their Balances in Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 795-828. | 0.9 | 464 |
| 79 | Compositional Data Analysis: Where Are We and Where Should We Be Heading?. Mathematical Geosciences, 2005, 37, 829-850. | 0.9 | 282 |
| 80 | Title is missing!. Journal of Earthquake Engineering, 2004, 8, 431. | 2.5 | 4 |
| 81 | Bounds for the moduli of zeros. Applied Mathematics Letters, 2004, 17, 993-996. | 2.7 | 9 |
| 82 | WHAT CAN BE CONCLUDED ABOUT SEISMIC HISTORY FROM BROKEN AND UNBROKEN SPELEOTHEMS?. Journal of Earthquake Engineering, 2004, 8, 431-455. | 2.5 | 41 |
| 83 | Isometric Logratio Transformations for Compositional Data Analysis. Mathematical Geosciences, 2003, 35, 279-300. | 0.9 | 1,354 |
| 84 | 11008. American Mathematical Monthly, 2003, 110, 340. | 0.3 | 0 |
| 85 | Title is missing!. Mathematical Geosciences, 2002, 34, 249-257. | 0.9 | 83 |
| 86 | BLU Estimators and Compositional Data. Mathematical Geosciences, 2002, 34, 259-274. | 0.9 | 83 |
| 87 | Reflection coefficients counterpart of Cardan-Viete formulas. IEEE Transactions on Signal Processing, 2001, 49, 1745-1747. | 5.3 | 0 |
| 88 | Geometric approach to statistical analysis on the simplex. Stochastic Environmental Research and Risk Assessment, 2001, 15, 384-398. | 4.0 | 284 |
| 89 | 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 |
| 90 | Bayesian techniques for seismic hazard assessment using imprecise data. Natural Hazards, 1997, 14, 91-112. | 3.4 | 8 |

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| 91 | Bayesian estimation of seismic hazard for two sites in Switzerland. Natural Hazards, 1997, 14, 165-178. | 3.4 | 14 |
| 92 | 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 |
| 93 | Normalized Maximum-Likelihood Estimators of the Directional Wave Spectrum. Journal of Atmospheric and Oceanic Technology, 1995, 12, 668-673. | 1.3 | 3 |
| 94 | Safety Control of Prestressing in Nuclear Plants. Journal of Structural Engineering, 1995, 121, 1722-1725. | 3.4 | 1 |
| 95 | Copying computer-generated-holographic interconnects by the use of partially coherent light. Applied Optics, 1994, 33, 1431. | 2.1 | 4 |
| 96 | 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 |
| 97 | Comparison of two methods for seismic hazard assessment in a low-seismicity area. Natural Hazards, 1992, 6, 39-49. | 3.4 | 2 |
| 98 | A method to estimate intensity occurrence probabilities in low seismic activity regions. Earthquake Engineering and Structural Dynamics, 1991, 20, 43-60. | 4.4 | 26 |
| 99 | Coda-Q Distribution In the Iberian Peninsula. Geophysical Journal International, 1990, 100, 285-301. | 2.4 | 76 |
| 100 | Effect of Boussinesq Equations on Wave Spectra Propagation. , 1989, , 350. | | 0 |
| 101 | Assessment of seismic hazard for the Sannio-Matese area of Southern Italy ? A summary. Natural Hazards, 1989, 2, 217-228. | 3.4 | 10 |
| 102 | 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 |
| 103 | Seismic hazard assessment in TERESA test areas based on a Bayesian technique. Natural Hazards, 1989, 2, 249-265. | 3.4 | 8 |
| 104 | Estimation of seismic hazard parameters in TERESA test areas. Natural Hazards, 1989, 2, 289-306. | 3.4 | 3 |
| 105 | Scale effect in hazard assessment - application to daily rainfall. Advances in Geosciences, 0, 2, 117-121. | 12.0 | 5 |
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| 107 | Bayesian trend analysis for daily rainfall series of Barcelona. Advances in Geosciences, 0, 26, 71-76. | 12.0 | 4 |