Josep A MartÃn-FernÃ¡ndez

List of Publications by Year
in descending order

72 papers	4,301 citations	182225 30 h-index	134545 62 g-index
81 all docs	81 docs citations	81 times ranked	5399 citing authors

#	Article	IF	Citations
1	Using compositional data analysis to explore accumulation of sedentary behavior, physical activity and youth health. Journal of Sport and Health Science, 2022, 11, 234-243.	3.3	13
2	Measurement, selection, and visualization of association rules: A compositional data perspective. Quality and Reliability Engineering International, 2022, 38, 1327-1339.	1.4	2
3	Predicting Rare Earth Element Potential in Produced and Geothermal Waters of the United States via Emergent Self-Organizing Maps. Energies, 2022, 15, 4555.	1.6	9
4	Intervention effects on children's movement behaviour accumulation as a result of theÂTransform-Us! school- and home-based cluster randomised controlled trial. International Journal of Behavioral Nutrition and Physical Activity, 2022, 19, .	2.0	3
5	Units Recovery Methods in Compositional Data Analysis. Natural Resources Research, 2021, 30, 3045-3058.	2.2	8
6	"Compositional Data Analysis in Practice" by Michael Greenacre Universitat Pompeu Fabra (Barcelona,) Tj ETQq0 0 0 rgBT /Overlock	1.2	0
7	Analysing body composition as compositional data: An exploration of the relationship between body composition, body mass and bone strength. Statistical Methods in Medical Research, 2021, 30, 331-346.	0.7	11
8	Multivariate Classification of the Crude Oil Petroleum Systems in Southeast Texas, USA, Using Conventional and Compositional Data Analysis of Biomarkers. , 2021, , 303-327.		0
9	Log-contrast and Orthonormal Log-ratio Coordinates for Compositional Data with a Total. , 2021, , 509-524.		0
10	Factor Analysis of Compositional Data with a Total. , 2021, , 125-142.		0
11	Insights on the characteristics and sources of gas from an underground coal mine using compositional data analysis. International Journal of Coal Geology, 2021, 241, 103767.	1.9	14
12	Probabilistic Model of Transition between Categories of Glucose Profiles in Patients with Type 1 Diabetes Using a Compositional Data Analysis Approach. Sensors, 2021, 21, 3593.	2.1	3
13	Microbial community-level physiological profiles: Considering whole data set and integrating dynamics of colour development. Ecological Indicators, 2020, 117, 106628.	2.6	5
14	Diet choice in a generalist predator, the invasive lionfish (Pterois volitans/miles). Journal of Experimental Marine Biology and Ecology, 2020, 524, 151311.	0.7	12
15	Compositional Data Analysis in Time-Use Epidemiology: What, Why, How. International Journal of Environmental Research and Public Health, 2020, 17, 2220.	1.2	123
16	Comments on: Compositional data: the sample space and its structure. Test, 2019, 28, 653-657.	0.7	23
17	Compositional Data Analysis of Glucose Profiles of Type 1 Diabetes Patients. IFAC-PapersOnLine, 2019, 52, 1006-1011.	0.5	1
18	Advances in self-organizing maps for their application to compositional data. Stochastic Environmental Research and Risk Assessment, 2019, 33, 817-826.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Individual categorisation of glucose profiles using compositional data analysis. Statistical Methods in Medical Research, 2019, 28, 3550-3567.	0.7	7
20	The compositional isotemporal substitution model: A method for estimating changes in a health outcome for reallocation of time between sleep, physical activity and sedentary behaviour. Statistical Methods in Medical Research, 2019, 28, 846-857.	0.7	169
21	Merging the components of a finite mixture using posterior probabilities. Statistical Modelling, 2019, 19, 109-139.	0.5	0
22	Compositional Data Analysis of Coal Combustion Products with an Application to a Wyoming Power Plant. Mathematical Geosciences, 2018, 50, 639-657.	1.4	8
23	Human development index, children's health-related quality of life and movement behaviors: a compositional data analysis. Quality of Life Research, 2018, 27, 1473-1482.	1.5	43
24	Adiposity and the isotemporal substitution of physical activity, sedentary time and sleep among school-aged children: a compositional data analysis approach. BMC Public Health, 2018, 18, 311.	1.2	76
25	Exploratory analysis of multi-element geochemical patterns in soil from the Sarno River Basin (Campania region, southern Italy) through compositional data analysis (CODA). Journal of Geochemical Exploration, 2018, 195, 110-120.	1.5	22
26	The adiposity of children is associated with their lifestyle behaviours: a cluster analysis of school-aged children from 12 nations. Pediatric Obesity, 2018, 13, 111-119.	1.4	56
27	Compositional data analysis for physical activity, sedentary time and sleep research. Statistical Methods in Medical Research, 2018, 27, 3726-3738.	0.7	273
28	Advances in Principal Balances for Compositional Data. Mathematical Geosciences, 2018, 50, 273-298.	1.4	60
29	Health-Related Quality of Life and Lifestyle Behavior Clusters in School-Aged Children from 12 Countries. Journal of Pediatrics, 2017, 183, 178-183.e2.	0.9	92
30	Academic Performance and Lifestyle Behaviors in Australian School Children: A Cluster Analysis. Health Education and Behavior, 2017, 44, 918-927.	1.3	36
31	Statistical analysis of solid waste composition data: Arithmetic mean, standard deviation and correlation coefficients. Waste Management, 2017, 69, 13-23.	3.7	65
32	When relative and absolute information matter: Compositional predictor with a total in generalized linear models. Statistical Modelling, 2017, 17, 494-512.	0.5	24
33	The peril of proportions: robust niche indices for categorical data. Methods in Ecology and Evolution, 2017, 8, 223-231.	2.2	4
34	Compositional Data Methods in Customer Survey Analysis. Quality and Reliability Engineering International, 2016, 32, 2115-2125.	1.4	14
35	Recycling of plastic waste: Presence of phthalates in plastics from households and industry. Waste Management, 2016, 54, 44-52.	3.7	125
36	Signal interpretation in Hotelling's T^2 control chart for compositional data. IIE Transactions, 2016, 48, 661-672.	2.1	17

#	Article	IF	Citations
37	The Mathematics of Compositional Analysis. Austrian Journal of Statistics, 2016, 45, 57-71.	0.2	64
38	3D-modeling of Mercury's solar wind sputtered surface-exosphere environment. Planetary and Space Science, 2015, 115, 90-101.	0.9	36
39	Vegetation patterns in the Southern Apennines (Italy) during MIS 13: Deciphering pollen variability along a NW-SE transect. Review of Palaeobotany and Palynology, 2015, 218, 167-183.	0.8	16
40	Bayesian-multiplicative treatment of count zeros in compositional data sets. Statistical Modelling, 2015, 15, 134-158.	0.5	175
41	zCompositions â€" R package for multivariate imputation of left-censored data under a compositional approach. Chemometrics and Intelligent Laboratory Systems, 2015, 143, 85-96.	1.8	608
42	Size Fraction Effects on Planktonic Foraminifera Assemblages: A Compositional Contribution to the Golden Sieve Rush. Mathematical Geosciences, 2015, 47, 455-470.	1.4	3
43	Some Comments on Compositional Analysis in Management and Production Engineering. Management and Production Engineering Review, 2015, 6, 63-72.	1.4	2
44	Outâ€ofâ€Control Signals in Threeâ€Part Compositional T^2 Control Chart. Quality and Reliability Engineering International, 2014, 30, 337-346.	1.4	25
45	A bootstrap estimation scheme for chemical compositional data with nondetects. Journal of Chemometrics, 2014, 28, 585-599.	0.7	14
46	Methods to investigate the geochemistry of groundwaters with values for nitrogen compounds below the detection limit. Journal of Geochemical Exploration, 2014, 141, 78-88.	1.5	20
47	Compositional methods for estimating elemental concentrations below the limit of detection in practice using R. Journal of Geochemical Exploration, 2014, 141, 71-77.	1.5	42
48	Using simulated maps to interpret the geochemistry, formation and quality of the Blue Gem coal bed, Kentucky, USA. International Journal of Coal Geology, 2013, 112, 26-35.	1.9	14
49	Values below detection limit in compositional chemical data. Analytica Chimica Acta, 2013, 764, 32-43.	2.6	75
50	Modelling of weather parameters to predict russet on â€˜Golden Deliciousâ€™ apple. Journal of Horticultural Science and Biotechnology, 2013, 88, 624-630.	0.9	8
51	Topographic predictors of susceptibility to alluvial fan flooding, Southern Apennines. Earth Surface Processes and Landforms, 2012, 37, 803-817.	1.2	36
52	Dealing with Distances and Transformations for Fuzzy C-Means Clustering of Compositional Data. Journal of Classification, 2012, 29, 144-169.	1.2	58
53	Model-based replacement of rounded zeros in compositional data: Classical and robust approaches. Computational Statistics and Data Analysis, 2012, 56, 2688-2704.	0.7	118
54	Gaussian kernels for density estimation with compositional data. Computers and Geosciences, 2011, 37, 702-711.	2.0	13

#	Article	IF	Citations
55	Self-consistent modelling of Mercury's exosphere by sputtering, micro-meteorite impact and photon-stimulated desorption. Planetary and Space Science, 2010, 58, 1599-1616.	0.9	90
56	Sedimentary chemofacies characterization by means of multivariate analysis. Sedimentary Geology, 2010, 228, 218-228.	1.0	54
57	Analysis of new diffusion tensor imaging anisotropy measures in the three-phase plot. Journal of Magnetic Resonance Imaging, 2010, 31, 1435-1444.	1.9	20
58	MAPPING INDIVIDUAL VARIATION IN MALE MATING PREFERENCE SPACE: MULTIPLE CHOICE IN A COLOR POLYMORPHIC CICHLID FISH. Evolution; International Journal of Organic Evolution, 2009, 63, 2372-2388.	1.1	36
59	A modified EM alr-algorithm for replacing rounded zeros in compositional data sets. Computers and Geosciences, 2008, 34, 902-917.	2.0	96
60	A Parametric Approach for Dealing with Compositional Rounded Zeros. Mathematical Geosciences, 2007, 39, 625-645.	0.9	70
61	The lunar exosphere: The sputtering contribution. Icarus, 2007, 191, 486-496.	1.1	141
62	The chemical variability at the surface of Mars: Implication for sediment formation and rock weathering. Icarus, 2006, 183, 10-29.	1.1	10
63	Major-oxide compositional discrimination in Cenozoic volcanites of Hungary. Geological Society Special Publication, 2006, 264, 11-23.	0.8	6
64	Detailed guide to CoDaPack: a freeware compositional software. Geological Society Special Publication, 2006, 264, 101-118.	0.8	17
65	Rounded zeros: some practical aspects for compositional data. Geological Society Special Publication, 2006, 264, 191-201.	0.8	20
66	Subcompositional Patterns in Cenozoic Volcanic Rocks of Hungary. Mathematical Geosciences, 2005, 37, 729-752.	0.9	10
67	Dealing with Compositional Data: The Freeware CoDaPack. Mathematical Geosciences, 2005, 37, 773-793.	0.9	88
68	Dealing with Zeros and Missing Values in Compositional Data Sets Using Nonparametric Imputation. Mathematical Geosciences, 2003, 35, 253-278.	0.9	426
69	Reply to Letter to the Editor by S. Rehder and U. Zier. Mathematical Geosciences, 2001, 33, 849-860.	0.9	5
70	Criteria to Compare Estimation Methods of Regionalized Compositions. Mathematical Geosciences, 2001, 33, 889-909.	0.9	15
71	Logratio Analysis and Compositional Distance. Mathematical Geosciences, 2000, 32, 271-275.	0.9	364
72	Zero Replacement in Compositional Data Sets. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 155-160.	0.1	40