Vera Pawlowsky-Glahn

List of Publications by Year
in descending order

91 papers	8,576 citations	136950 32 h-index	60623 81 g-index
134 all docs	134 docs citations	134 times ranked	7735 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	Dealing with Zeros and Missing Values in Compositional Data Sets Using Nonparametric Imputation. Mathematical Geosciences, 2003, 35, 253-278.	0.9	426
5	Logratio Analysis and Compositional Distance. Mathematical Geosciences, 2000, 32, 271-275.	0.9	364
6	Geometric approach to statistical analysis on the simplex. Stochastic Environmental Research and Risk Assessment, 2001, 15, 384-398.	4.0	284
7	Proportionality: A Valid Alternative to Correlation for Relative Data. PLoS Computational Biology, 2015, 11, e1004075.	3.2	232
8	It's all relative: analyzing microbiome data as compositions. Annals of Epidemiology, 2016, 26, 322-329.	1.9	216
9	Compositional data and their analysis: an introduction. Geological Society Special Publication, 2006, 264, 1-10.	1.3	196
10	Balances: a New Perspective for Microbiome Analysis. MSystems, 2018, 3, .	3.8	188
11	Composition and Discrimination of Sandstones: A Statistical Evaluation of Different Analytical Methods. Journal of Sedimentary Research, 2003, 73, 47-57.	1.6	113
12	Modelling Compositional Change: The Example of Chemical Weathering of Granitoid Rocks. Mathematical Geosciences, 2003, 35, 231-251.	0.9	100
13	New Perspectives on Water Chemistry and Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 703-727.	0.9	95
14	Geostatistical Analysis of Compositional Data. , 2004, , .		87
15	Title is missing!. Mathematical Geosciences, 2002, 34, 249-257.	0.9	83
16	BLU Estimators and Compositional Data. Mathematical Geosciences, 2002, 34, 259-274.	0.9	83
17	Relative vs. absolute statistical analysis of compositions: A comparative study of surface waters of a Mediterranean river. Water Research, 2005, 39, 1404-1414.	11.3	80
18	Hilbert Space of Probability Density Functions Based on Aitchison Geometry. Acta Mathematica Sinica, English Series, 2006, 22, 1175-1182.	0.6	75

#	Article	IF	Citations
19	Bayes Hilbert Spaces. Australian and New Zealand Journal of Statistics, 2014, 56, 171-194.	0.9	72
20	Compositional data: the sample space and its structure. Test, 2019, 28, 599-638.	1.1	69
21	Simplicial geometry for compositional data. Geological Society Special Publication, 2006, 264, 145-159.	1.3	60
22	Advances in Principal Balances for Compositional Data. Mathematical Geosciences, 2018, 50, 273-298.	2.4	60
23	Long-term impact of fecal transplantation in healthy volunteers. BMC Microbiology, 2019, 19, 312.	3.3	55
24	A Critical Approach to Probability Laws in Geochemistry. Mathematical Geosciences, 2008, 40, 489-502.	2.4	53
25	Tools for compositional data with a total. Statistical Modelling, 2015, 15, 175-190.	1.1	50
26	Spatial analysis of compositional data: A historical review. Journal of Geochemical Exploration, 2016, 164, 28-32.	3.2	50
27	Some comments on compositional data analysis in archaeometry, in particular the fallacies in Tangri and Wright's dismissal of logratio analysis. Archaeometry, 2002, 44, 295-304.	1.3	49
28	Linear Association in Compositional Data Analysis. Austrian Journal of Statistics, 2018, 47, 3-31.	0.6	44
29	Zero Replacement in Compositional Data Sets. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 155-160.	0.2	40
30	Differential effects of genetic vs. environmental quality in <i>Drosophila melanogaster</i> suggest multiple forms of condition dependence. Ecology Letters, 2015, 18, 317-326.	6.4	38
31	Indicator Kriging without Order Relation Violations. Mathematical Geosciences, 2008, 40, 327-347.	2.4	36
32	Kolmogorov–Smirnov test for spatially correlated data. Stochastic Environmental Research and Risk Assessment, 2009, 23, 749-757.	4.0	35
33	Compositional Data Analysis in Population Studies. Annals of the American Association of Geographers, 2012, 102, 1251-1266.	3.0	35
34	Some Basic Concepts of Compositional Geometry. Mathematical Geosciences, 2005, 37, 673-680.	0.9	30
35	Changing the Reference Measure in the Simplex and its Weighting Effects. Austrian Journal of Statistics, 2016, 45, 25-44.	0.6	29
36	Visualization and modeling of sub-populations of compositional data: statistical methods illustrated by means of geochemical data from fumarolic fluids. International Journal of Earth Sciences, 2002, 91, 357-368.	1.8	28

#	Article	IF	Citations
37	Latent Compositional Factors in The Llobregat River Basin (Spain) Hydrogeochemistry. Mathematical Geosciences, 2005, 37, 681-702.	0.9	27
38	Frequency distributions and natural laws in geochemistry. Geological Society Special Publication, 2006, 264, 175-189.	1.3	24
39	Compositional data analysis as a robust tool to delineate hydrochemical facies within and between gas€bearing aquifers. Water Resources Research, 2016, 52, 5771-5793.	4.2	24
40	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
41	Independence in Contingency Tables Using Simplicial Geometry. Communications in Statistics - Theory and Methods, 2015, 44, 3978-3996.	1.0	23
42	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
43	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
44	Balance-dendrogram. A new routine of CoDaPack. Computers and Geosciences, 2008, 34, 1682-1696.	4.2	22
45	The Skew-Normal Distribution on the Simplex. Communications in Statistics - Theory and Methods, 2007, 36, 1787-1802.	1.0	21
46	A Critical Approach to Non-Parametric Classification of Compositional Data. Studies in Classification, Data Analysis, and Knowledge Organization, 1998, , 49-56.	0.2	21
47	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. Journal of Hydrology, 2014, 519, 988-998.	5.4	19
48	Understanding Low-Cost Airline Users' Expenditure Patterns and Volume. Tourism Economics, 2016, 22, 269-291.	4.1	18
49	The additive logistic skew-normal distribution on the simplex. Stochastic Environmental Research and Risk Assessment, 2005, 19, 205-214.	4.0	17
50	The effect of scale in daily precipitation hazard assessment. Natural Hazards and Earth System Sciences, 2006, 6, 459-470.	3.6	17
51	Criteria to Compare Estimation Methods of Regionalized Compositions. Mathematical Geosciences, 2001, 33, 889-909.	0.9	15
52	A compositional approach to the reconstruction of geochemical processes involved in the evolution of Holocene marine flooded coastal karst basins (Mljet Island, Croatia). Applied Geochemistry, 2020, 116, 104574.	3.0	15
53	Kriging Regionalized Positive Variables Revisited: Sample Space and Scale Considerations. Mathematical Geosciences, 2007, 39, 529-558.	0.9	14
54	Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133.	3.2	12

#	ARTICLE	IF	CITATIONS
55	Compositional Data in Geostatistics: A Log-Ratio Based Framework to Analyze Regionalized Compositions. Mathematical Geosciences, 2020, 52, 1067-1084.	2.4	12
56	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
57	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
58	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
59	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
60	New sediment provenance approach based on orthonormal log ratio transformation of geochemical and heavy mineral data: Sources of eolian sands from the southeastern Adriatic archipelago. Chemical Geology, 2021, 583, 120451.	3.3	11
61	Title is missing!. Mathematical Geosciences, 1999, 31, 581-585.	0.9	10
62	Subcompositional Patterns in Cenozoic Volcanic Rocks of Hungary. Mathematical Geosciences, 2005, 37, 729-752.	0.9	10
63	Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488.	2.4	9
64	Simplicial Indicator Kriging. Journal of China University of Geosciences, 2008, 19, 65-71.	0.5	9
65	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
66	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. Science of the Total Environment, 2022, 812, 152383.	8.0	9
67	Units Recovery Methods in Compositional Data Analysis. Natural Resources Research, 2021, 30, 3045-3058.	4.7	8
68	Volumetric calculations in an oil field: The basis method. Computers and Geosciences, 1993, 19, 1517-1527.	4.2	7
69	Statistical evaluation of compositional changes in volcanic gas chemistry: a case study. Stochastic Environmental Research and Risk Assessment, 2006, 21, 25-33.	4.0	6
70	Rejoinder on: Compositional data: the sample space and its structure. Test, 2019, 28, 658-663.	1.1	6
71	Reply to Letter to the Editor by S. Rehder and U. Zier. Mathematical Geosciences, 2001, 33, 849-860.	0.9	5
72	Foreword: Advances in Compositional Data. Mathematical Geosciences, 2005, 37, 671-672.	0.9	5

#	Article	IF	Citations
73	Discriminating geodynamical regimes of tin ore formation using trace element composition of cassiterite: the Sikhoteâ€™Alin case (Far Eastern Russia). Geological Society Special Publication, 2006, 264, 43-57.	1.3	5
74	Compositional Data Analysis (CoDA) as a tool to study the (paleo)ecology of coccolithophores from coastal-neritic settings off central Portugal. Sedimentary Geology, 2015, 319, 134-146.	2.1	5
75	Noâ€arbitrage matrices of exchange rates: Some characterizations. International Journal of Economic Theory, 2019, , .	0.6	5
76	Scale effect in hazard assessment - application to daily rainfall. Advances in Geosciences, 0, 2, 117-121.	12.0	5
77	A statistical method to downscale temperature forecasts. A case study in Catalonia. Meteorological Applications, 2000, 7, 75-82.	2.1	4
78	A Critical Approach to Probability Laws in Geochemistry. , 2008, , 39-52.		3
79	Some thoughts on counts in sequencing studies. NAR Genomics and Bioinformatics, 2020, 2, lqaa094.	3.2	3
80	Combining Isotopic and Compositional Data: A Discrimination of Regions Prone to Nitrate Pollution. , 0, , 302-317.		2
81	Modelling Compositional Data. The Sample Space Approach. , 2018, , 81-103.		2
82	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
83	Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793.	3.2	1
84	Representation of Species Composition. Springer Proceedings in Mathematics and Statistics, 2016, , 167-180.	0.2	1
85	Survey Data on Perceptions of Contraceptive Methods as Compositional Tables. Revista Latinoamericana De Psicologia, 2018, 50, .	0.3	1
86	RaimonÂTolosana-Delgado: 2007ÂAndreiÂBorisovichÂVisteliusÂResearchÂAward ofÂtheÂInternational Association forÂMathematicalÂGeology. Mathematical Geosciences, 2007, 39, 781-783.	0.9	0
87	Compositional Analysis of Exchange Rates. , 2021, , 489-507.		0
88	Basic Concepts and Procedures. , 2001, , 3-68.		0
89	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37.		0
90	Compositional Data. Encyclopedia of Earth Sciences Series, 2021, , 1-11.	0.1	0

#	Article	IF	Citations
91	The international association for mathematical geosciences. , 0, , 29-41.		0