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	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. Science of the Total Environment, 2022, 812, 152383.	8.0	9
2	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
3	Units Recovery Methods in Compositional Data Analysis. Natural Resources Research, 2021, 30, 3045-3058.	4.7	8
4	Distances to compositional equilibrium. Journal of Geochemical Exploration, 2021, 227, 106793.	3.2	1
5	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
6	Compositional Analysis of Exchange Rates. , 2021, , 489-507.		0
7	Compositional Data. Encyclopedia of Earth Sciences Series, 2021, , 1-11.	0.1	0
8	Compositional Data in Geostatistics: A Log-Ratio Based Framework to Analyze Regionalized Compositions. Mathematical Geosciences, 2020, 52, 1067-1084.	2.4	12
9	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
10	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
11	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
12	Some thoughts on counts in sequencing studies. NAR Genomics and Bioinformatics, 2020, 2, lqaa094.	3.2	3
13	Compositional data: the sample space and its structure. Test, 2019, 28, 599-638.	1.1	69
14	Rejoinder on: Compositional data: the sample space and its structure. Test, 2019, 28, 658-663.	1.1	6
15	Noâ€arbitrage matrices of exchange rates: Some characterizations. International Journal of Economic Theory, 2019, , .	0.6	5
16	Long-term impact of fecal transplantation in healthy volunteers. BMC Microbiology, 2019, 19, 312.	3.3	55
17	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
18	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

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19	Advances in Principal Balances for Compositional Data. Mathematical Geosciences, 2018, 50, 273-298.	2.4	60
20	Exploration of geochemical data with compositional canonical biplots. Journal of Geochemical Exploration, 2018, 194, 120-133.	3.2	12
21	Balances: a New Perspective for Microbiome Analysis. MSystems, 2018, 3, .	3.8	188
22	Modelling Compositional Data. The Sample Space Approach. , 2018, , 81-103.		2
23	Linear Association in Compositional Data Analysis. Austrian Journal of Statistics, 2018, 47, 3-31.	0.6	44
24	Survey Data on Perceptions of Contraceptive Methods as Compositional Tables. Revista Latinoamericana De Psicologia, 2018, 50, .	0.3	1
25	Microbiome Datasets Are Compositional: And This Is Not Optional. Frontiers in Microbiology, 2017, 8, 2224.	3.5	1,794
26	It's all relative: analyzing microbiome data as compositions. Annals of Epidemiology, 2016, 26, 322-329.	1.9	216
27	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
28	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
29	Understanding Low-Cost Airline Users' Expenditure Patterns and Volume. Tourism Economics, 2016, 22, 269-291.	4.1	18
30	Spatial analysis of compositional data: A historical review. Journal of Geochemical Exploration, 2016, 164, 28-32.	3.2	50
31	Changing the Reference Measure in the Simplex and its Weighting Effects. Austrian Journal of Statistics, 2016, 45, 25-44.	0.6	29
32	Representation of Species Composition. Springer Proceedings in Mathematics and Statistics, 2016, , 167-180.	0.2	1
33	Independence in Contingency Tables Using Simplicial Geometry. Communications in Statistics - Theory and Methods, 2015, 44, 3978-3996.	1.0	23
34	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
35	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
36	Proportionality: A Valid Alternative to Correlation for Relative Data. PLoS Computational Biology, 2015, 11, e1004075.	3.2	232

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37	Tools for compositional data with a total. Statistical Modelling, 2015, 15, 175-190.	1.1	50
38	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
39	Bayes Hilbert Spaces. Australian and New Zealand Journal of Statistics, 2014, 56, 171-194.	0.9	72
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	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
42	Compositional Data Analysis in Population Studies. Annals of the American Association of Geographers, 2012, 102, 1251-1266.	3.0	35
43	Kolmogorovâ€"Smirnov test for spatially correlated data. Stochastic Environmental Research and Risk Assessment, 2009, 23, 749-757.	4.0	35
44	Indicator Kriging without Order Relation Violations. Mathematical Geosciences, 2008, 40, 327-347.	2.4	36
45	Another Look at the Chemical Relationships inÂtheÂDissolved Phase of Complex River Systems. Mathematical Geosciences, 2008, 40, 475-488.	2.4	9
46	A Critical Approach to Probability Laws inÂGeochemistry. Mathematical Geosciences, 2008, 40, 489-502.	2.4	53
47	Balance-dendrogram. A new routine of CoDaPack. Computers and Geosciences, 2008, 34, 1682-1696.	4.2	22
48	Simplicial Indicator Kriging. Journal of China University of Geosciences, 2008, 19, 65-71.	0.5	9
49	A Critical Approach to Probability Laws in Geochemistry. , 2008, , 39-52.		3
50	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. , 2008, , 23-37.		0
51	The Skew-Normal Distribution on the Simplex. Communications in Statistics - Theory and Methods, 2007, 36, 1787-1802.	1.0	21
52	RaimonÂTolosana-Delgado: 2007ÂAndreiÂBorisovichÂVisteliusÂResearchÂAward ofÂtheÂInternational Association forÂMathematicalÂGeology. Mathematical Geosciences, 2007, 39, 781-783.	0.9	0
53	Kriging Regionalized Positive Variables Revisited: Sample Space and Scale Considerations. Mathematical Geosciences, 2007, 39, 529-558.	0.9	14
54	Compositional data and their analysis: an introduction. Geological Society Special Publication, 2006, 264, 1-10.	1.3	196

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55	The effect of scale in daily precipitation hazard assessment. Natural Hazards and Earth System Sciences, 2006, 6, 459-470.	3.6	17
56	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
57	Hilbert Space of Probability Density Functions Based on Aitchison Geometry. Acta Mathematica Sinica, English Series, 2006, 22, 1175-1182.	0.6	75
58	Simplicial geometry for compositional data. Geological Society Special Publication, 2006, 264, 145-159.	1.3	60
59	Frequency distributions and natural laws in geochemistry. Geological Society Special Publication, 2006, 264, 175-189.	1.3	24
60	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
61	The additive logistic skew-normal distribution on the simplex. Stochastic Environmental Research and Risk Assessment, 2005, 19, 205-214.	4.0	17
62	Foreword: Advances in Compositional Data. Mathematical Geosciences, 2005, 37, 671-672.	0.9	5
63	Some Basic Concepts of Compositional Geometry. Mathematical Geosciences, 2005, 37, 673-680.	0.9	30
64	Latent Compositional Factors in The Llobregat River Basin (Spain) Hydrogeochemistry. Mathematical Geosciences, 2005, 37, 681-702.	0.9	27
65	New Perspectives on Water Chemistry and Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 703-727.	0.9	95
66	Subcompositional Patterns in Cenozoic Volcanic Rocks of Hungary. Mathematical Geosciences, 2005, 37, 729-752.	0.9	10
67	Groups of Parts and Their Balances in Compositional Data Analysis. Mathematical Geosciences, 2005, 37, 795-828.	0.9	464
68	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
69	Geostatistical Analysis of Compositional Data. , 2004, , .		87
70	Isometric Logratio Transformations for Compositional Data Analysis. Mathematical Geosciences, 2003, 35, 279-300.	0.9	1,354
71	Modelling Compositional Change: The Example of Chemical Weathering of Granitoid Rocks. Mathematical Geosciences, 2003, 35, 231-251.	0.9	100
72	Dealing with Zeros and Missing Values in Compositional Data Sets Using Nonparametric Imputation. Mathematical Geosciences, 2003, 35, 253-278.	0.9	426

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73	Composition and Discrimination of Sandstones: A Statistical Evaluation of Different Analytical Methods. Journal of Sedimentary Research, 2003, 73, 47-57.	1.6	113
74	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
75	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
76	Title is missing!. Mathematical Geosciences, 2002, 34, 249-257.	0.9	83
77	BLU Estimators and Compositional Data. Mathematical Geosciences, 2002, 34, 259-274.	0.9	83
78	Geometric approach to statistical analysis on the simplex. Stochastic Environmental Research and Risk Assessment, 2001, 15, 384-398.	4.0	284
79	Reply to Letter to the Editor by S. Rehder and U. Zier. Mathematical Geosciences, 2001, 33, 849-860.	0.9	5
80	Criteria to Compare Estimation Methods of Regionalized Compositions. Mathematical Geosciences, 2001, 33, 889-909.	0.9	15
81	Basic Concepts and Procedures. , 2001, , 3-68.		0
82	A statistical method to downscale temperature forecasts. A case study in Catalonia. Meteorological Applications, 2000, 7, 75-82.	2.1	4
83	Logratio Analysis and Compositional Distance. Mathematical Geosciences, 2000, 32, 271-275.	0.9	364
84	Zero Replacement in Compositional Data Sets. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 155-160.	0.2	40
85	Title is missing!. Mathematical Geosciences, 1999, 31, 581-585.	0.9	10
86	A Critical Approach to Non-Parametric Classification of Compositional Data. Studies in Classification, Data Analysis, and Knowledge Organization, 1998, , 49-56.	0.2	21
87	Volumetric calculations in an oil field: The basis method. Computers and Geosciences, 1993, 19, 1517-1527.	4.2	7
88	Combining Isotopic and Compositional Data: A Discrimination of Regions Prone to Nitrate Pollution. , 0, , 302-317.		2
89	Scale effect in hazard assessment - application to daily rainfall. Advances in Geosciences, 0, 2, 117-121.	12.0	5
90	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

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91	The international association for mathematical geosciences. , 0, , 29-41.		0