

# Vera Pawlowsky-Glahn

## List of Publications by Year in descending order

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91  
papers

8,576  
citations

156536

32  
h-index

68831

81  
g-index

134  
all docs

134  
docs citations

134  
times ranked

8527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compositional baseline assessments to address soil pollution: An application in Langreo, Spain. <i>Science of the Total Environment</i> , 2022, 812, 152383.	3.9	9
2	A compositional approach to in-situ evaluation of polymetallic deposits. A case study at Sungun Cu-Mo deposit, NW Iran. <i>Journal of Geochemical Exploration</i> , 2022, 237, 106981.	1.5	2
3	Units Recovery Methods in Compositional Data Analysis. <i>Natural Resources Research</i> , 2021, 30, 3045-3058.	2.2	8
4	Distances to compositional equilibrium. <i>Journal of Geochemical Exploration</i> , 2021, 227, 106793.	1.5	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. <i>Chemical Geology</i> , 2021, 583, 120451.	1.4	11
6	Compositional Analysis of Exchange Rates. , 2021, , 489-507.		0
7	Compositional Data. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1-11.	0.1	0
8	Compositional Data in Geostatistics: A Log-Ratio Based Framework to Analyze Regionalized Compositions. <i>Mathematical Geosciences</i> , 2020, 52, 1067-1084.	1.4	12
9	Chronic kidney disease of unknown origin is associated with environmental urbanisation in Belfast, UK. <i>Environmental Geochemistry and Health</i> , 2020, 43, 2597-2614.	1.8	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). <i>Applied Geochemistry</i> , 2020, 116, 104574.	1.4	15
11	Investigating the influence of environmental factors on the incidence of renal disease with compositional data analysis using balances. <i>Applied Computing and Geosciences</i> , 2020, 6, 100024.	1.0	9
12	Some thoughts on counts in sequencing studies. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa094.	1.5	3
13	Compositional data: the sample space and its structure. <i>Test</i> , 2019, 28, 599-638.	0.7	69
14	Rejoinder on: Compositional data: the sample space and its structure. <i>Test</i> , 2019, 28, 658-663.	0.7	6
15	No-arbitrage matrices of exchange rates: Some characterizations. <i>International Journal of Economic Theory</i> , 2019, , .	0.4	5
16	Long-term impact of fecal transplantation in healthy volunteers. <i>BMC Microbiology</i> , 2019, 19, 312.	1.3	55
17	The impact of the compositional nature of data on coal reserve evaluation, a case study in Parvadeh IV coal deposit, Central Iran. <i>International Journal of Coal Geology</i> , 2018, 188, 94-111.	1.9	11
18	Advancements in hydrochemistry mapping: methods and application to groundwater arsenic and iron concentrations in Varanasi, Uttar Pradesh, India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 241-259.	1.9	23

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19	Advances in Principal Balances for Compositional Data. <i>Mathematical Geosciences</i> , 2018, 50, 273-298.	1.4	60
20	Exploration of geochemical data with compositional canonical biplots. <i>Journal of Geochemical Exploration</i> , 2018, 194, 120-133.	1.5	12
21	Balances: a New Perspective for Microbiome Analysis. <i>MSystems</i> , 2018, 3, .	1.7	188
22	Modelling Compositional Data. The Sample Space Approach. , 2018, , 81-103.		2
23	Linear Association in Compositional Data Analysis. <i>Austrian Journal of Statistics</i> , 2018, 47, 3-31.	0.2	44
24	Survey Data on Perceptions of Contraceptive Methods as Compositional Tables. <i>Revista Latinoamericana De Psicologia</i> , 2018, 50, .	0.2	1
25	Microbiome Datasets Are Compositional: And This Is Not Optional. <i>Frontiers in Microbiology</i> , 2017, 8, 2224.	1.5	1,794
26	It's all relative: analyzing microbiome data as compositions. <i>Annals of Epidemiology</i> , 2016, 26, 322-329.	0.9	216
27	Calorific value and compositional ultimate analysis with a case study of a Texas lignite. <i>International Journal of Coal Geology</i> , 2016, 162, 27-33.	1.9	11
28	Compositional data analysis as a robust tool to delineate hydrochemical facies within and between gas-bearing aquifers. <i>Water Resources Research</i> , 2016, 52, 5771-5793.	1.7	24
29	Understanding Low-Cost Airline Users' Expenditure Patterns and Volume. <i>Tourism Economics</i> , 2016, 22, 269-291.	2.6	18
30	Spatial analysis of compositional data: A historical review. <i>Journal of Geochemical Exploration</i> , 2016, 164, 28-32.	1.5	50
31	Changing the Reference Measure in the Simplex and its Weighting Effects. <i>Austrian Journal of Statistics</i> , 2016, 45, 25-44.	0.2	29
32	Representation of Species Composition. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016, , 167-180.	0.1	1
33	Independence in Contingency Tables Using Simplicial Geometry. <i>Communications in Statistics - Theory and Methods</i> , 2015, 44, 3978-3996.	0.6	23
34	Compositional Data Analysis (CoDA) as a tool to study the (paleo)ecology of coccolithophores from coastal-neritic settings off central Portugal. <i>Sedimentary Geology</i> , 2015, 319, 134-146.	1.0	5
35	Differential effects of genetic vs. environmental quality in <i>Drosophila melanogaster</i> suggest multiple forms of condition dependence. <i>Ecology Letters</i> , 2015, 18, 317-326.	3.0	38
36	Proportionality: A Valid Alternative to Correlation for Relative Data. <i>PLoS Computational Biology</i> , 2015, 11, e1004075.	1.5	232

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37	Tools for compositional data with a total. <i>Statistical Modelling</i> , 2015, 15, 175-190.	0.5	50
38	Cokriging of compositional balances including a dimension reduction and retrieval of original units. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2015, 115, 59-72.	0.5	12
39	Bayes Hilbert Spaces. <i>Australian and New Zealand Journal of Statistics</i> , 2014, 56, 171-194.	0.4	72
40	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. <i>Journal of Hydrology</i> , 2014, 519, 988-998.	2.3	19
41	Bayes spaces: use of improper distributions and exponential families. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2013, 107, 475-486.	0.6	23
42	Compositional Data Analysis in Population Studies. <i>Annals of the American Association of Geographers</i> , 2012, 102, 1251-1266.	3.0	35
43	Kolmogorov-Smirnov test for spatially correlated data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 749-757.	1.9	35
44	Indicator Kriging without Order Relation Violations. <i>Mathematical Geosciences</i> , 2008, 40, 327-347.	1.4	36
45	Another Look at the Chemical Relationships in the Dissolved Phase of Complex River Systems. <i>Mathematical Geosciences</i> , 2008, 40, 475-488.	1.4	9
46	A Critical Approach to Probability Laws in Geochemistry. <i>Mathematical Geosciences</i> , 2008, 40, 489-502.	1.4	53
47	Balance-dendrogram. A new routine of CoDaPack. <i>Computers and Geosciences</i> , 2008, 34, 1682-1696.	2.0	22
48	Simplicial Indicator Kriging. <i>Journal of China University of Geosciences</i> , 2008, 19, 65-71.	0.4	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. <i>Communications in Statistics - Theory and Methods</i> , 2007, 36, 1787-1802.	0.6	21
52	Raimon Tolosa-Delgado: 2007 Andrei Borisovich Vistelius Research Award of the International Association for Mathematical Geology. <i>Mathematical Geosciences</i> , 2007, 39, 781-783.	0.9	0
53	Kriging Regionalized Positive Variables Revisited: Sample Space and Scale Considerations. <i>Mathematical Geosciences</i> , 2007, 39, 529-558.	0.9	14
54	Compositional data and their analysis: an introduction. <i>Geological Society Special Publication</i> , 2006, 264, 1-10.	0.8	196

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55	The effect of scale in daily precipitation hazard assessment. <i>Natural Hazards and Earth System Sciences</i> , 2006, 6, 459-470.	1.5	17
56	Statistical evaluation of compositional changes in volcanic gas chemistry: a case study. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 21, 25-33.	1.9	6
57	Hilbert Space of Probability Density Functions Based on Aitchison Geometry. <i>Acta Mathematica Sinica, English Series</i> , 2006, 22, 1175-1182.	0.2	75
58	Simplicial geometry for compositional data. <i>Geological Society Special Publication</i> , 2006, 264, 145-159.	0.8	60
59	Frequency distributions and natural laws in geochemistry. <i>Geological Society Special Publication</i> , 2006, 264, 175-189.	0.8	24
60	Discriminating geodynamical regimes of tin ore formation using trace element composition of cassiterite: the Sikhotealin case (Far Eastern Russia). <i>Geological Society Special Publication</i> , 2006, 264, 43-57.	0.8	5
61	The additive logistic skew-normal distribution on the simplex. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 205-214.	1.9	17
62	Foreword: Advances in Compositional Data. <i>Mathematical Geosciences</i> , 2005, 37, 671-672.	0.9	5
63	Some Basic Concepts of Compositional Geometry. <i>Mathematical Geosciences</i> , 2005, 37, 673-680.	0.9	30
64	Latent Compositional Factors in The Llobregat River Basin (Spain) Hydrogeochemistry. <i>Mathematical Geosciences</i> , 2005, 37, 681-702.	0.9	27
65	New Perspectives on Water Chemistry and Compositional Data Analysis. <i>Mathematical Geosciences</i> , 2005, 37, 703-727.	0.9	95
66	Subcompositional Patterns in Cenozoic Volcanic Rocks of Hungary. <i>Mathematical Geosciences</i> , 2005, 37, 729-752.	0.9	10
67	Groups of Parts and Their Balances in Compositional Data Analysis. <i>Mathematical Geosciences</i> , 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. <i>Water Research</i> , 2005, 39, 1404-1414.	5.3	80
69	Geostatistical Analysis of Compositional Data. , 2004, , .		87
70	Isometric Logratio Transformations for Compositional Data Analysis. <i>Mathematical Geosciences</i> , 2003, 35, 279-300.	0.9	1,354
71	Modelling Compositional Change: The Example of Chemical Weathering of Granitoid Rocks. <i>Mathematical Geosciences</i> , 2003, 35, 231-251.	0.9	100
72	Dealing with Zeros and Missing Values in Compositional Data Sets Using Nonparametric Imputation. <i>Mathematical Geosciences</i> , 2003, 35, 253-278.	0.9	426

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73	Composition and Discrimination of Sandstones: A Statistical Evaluation of Different Analytical Methods. <i>Journal of Sedimentary Research</i> , 2003, 73, 47-57.	0.8	113
74	Visualization and modeling of sub-populations of compositional data: statistical methods illustrated by means of geochemical data from fumarolic fluids. <i>International Journal of Earth Sciences</i> , 2002, 91, 357-368.	0.9	28
75	Some comments on compositional data analysis in archaeometry, in particular the fallacies in Tangri and Wright's dismissal of logratio analysis. <i>Archaeometry</i> , 2002, 44, 295-304.	0.6	49
76	Title is missing!. <i>Mathematical Geosciences</i> , 2002, 34, 249-257.	0.9	83
77	BLU Estimators and Compositional Data. <i>Mathematical Geosciences</i> , 2002, 34, 259-274.	0.9	83
78	Geometric approach to statistical analysis on the simplex. <i>Stochastic Environmental Research and Risk Assessment</i> , 2001, 15, 384-398.	1.9	284
79	Reply to Letter to the Editor by S. Rehder and U. Zier. <i>Mathematical Geosciences</i> , 2001, 33, 849-860.	0.9	5
80	Criteria to Compare Estimation Methods of Regionalized Compositions. <i>Mathematical Geosciences</i> , 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. <i>Meteorological Applications</i> , 2000, 7, 75-82.	0.9	4
83	Logratio Analysis and Compositional Distance. <i>Mathematical Geosciences</i> , 2000, 32, 271-275.	0.9	364
84	Zero Replacement in Compositional Data Sets. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2000, , 155-160.	0.1	40
85	Title is missing!. <i>Mathematical Geosciences</i> , 1999, 31, 581-585.	0.9	10
86	A Critical Approach to Non-Parametric Classification of Compositional Data. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 1998, , 49-56.	0.1	21
87	Volumetric calculations in an oil field: The basis method. <i>Computers and Geosciences</i> , 1993, 19, 1517-1527.	2.0	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. <i>Advances in Geosciences</i> , 0, 2, 117-121.	12.0	5
90	Wave-height hazard analysis in Eastern Coast of Spain - Bayesian approach using generalized Pareto distribution. <i>Advances in Geosciences</i> , 0, 2, 25-30.	12.0	23

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