

Outlier Detection for Compositional Data Using Robust

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Univariate statistical analysis of environmental (compositional) data: Problems and possibilities. Science of the Total Environment, 2009, 407, 6100-6108.	8.0	354
2	Robust factor analysis for compositional data. Computers and Geosciences, 2009, 35, 1854-1861.	4.2	116
3	Principal component analysis for compositional data with outliers. Environmetrics, 2009, 20, 621-632.	1.4	376
4	Correlation Analysis for Compositional Data. Mathematical Geosciences, 2009, 41, 905-919.	2.4	99
5	Using distance metrics to determine the appropriate domain of pedotransfer function predictions. Geoderma, 2009, 149, 421-425.	5.1	27
6	Compositional nutrient diagnosis of corn using the Mahalanobis distance as nutrient imbalance index. Canadian Journal of Soil Science, 2009, 89, 383-390.	1.2	24
7	Tracking Paleodrainage in Pleistocene Foreland Basins. Journal of Geology, 2009, 117, 445-454.	1.4	21
8	Sedimentary chemofacies characterization by means of multivariate analysis. Sedimentary Geology, 2010, 228, 218-228.	2.1	54
9	The multivariate coefficient of variation for comparing serum protein electrophoresis techniques in external quality assessment schemes. Accreditation and Quality Assurance, 2010, 15, 351-357.	0.8	4
10	Hunting for Geochemical Associations of Elements: Factor Analysis and Self-Organising Maps. Mathematical Geosciences, 2010, 42, 681-703.	2.4	42
11	Imputation of missing values for compositional data using classical and robust methods. Computational Statistics and Data Analysis, 2010, 54, 3095-3107.	1.2	216
12	Total least squares solution for compositional data using linear models. Journal of Applied Statistics, 2010, 37, 1137-1152.	1.3	12
13	The interpretation of geochemical survey data. Geochemistry: Exploration, Environment, Analysis, 2010, 10, 27-74.	0.9	206
16	Analysis and mapping of geochemical anomalies using logratio-transformed stream sediment data with censored values. Journal of Geochemical Exploration, 2011, 110, 167-185.	3.2	249
17	Application of SOM to analysis of Minnesota soil survey data. , 2011, , .		4
19	On the Interpretation of Orthonormal Coordinates for Compositional Data. Mathematical Geosciences, 2011, 43, 455-468.	2.4	76
20	Statistical properties of the total variation estimator for compositional data. Metrika, 2011, 74, 221-230.	0.8	9
21	Statistical Inference in Orthogonal Regression for Three-Part Compositional Data Using a Linear Model with Type-II Constraints. Communications in Statistics - Theory and Methods, 2012, 41, 2367-2385.	1.0	2

#	ARTICLE	IF	CITATIONS
22	Statistical analysis of wines using a robust compositional biplot. <i>Talanta</i> , 2012, 90, 46-50.	5.5	15
23	Uses and misuses of compositional data in sedimentology. <i>Sedimentary Geology</i> , 2012, 280, 60-79.	2.1	42
24	Key Lipid Oxidation Products Can Be Used to Predict Sensory Quality of Fish Oils with Different Levels of EPA and DHA. <i>Lipids</i> , 2012, 47, 1169-1179.	1.7	32
25	Discriminant analysis for compositional data and robust parameter estimation. <i>Computational Statistics</i> , 2012, 27, 585-604.	1.5	40
26	Compositional Data Analysis in Population Studies. <i>Annals of the American Association of Geographers</i> , 2012, 102, 1251-1266.	3.0	35
27	Interpretation of multivariate outliers for compositional data. <i>Computers and Geosciences</i> , 2012, 39, 77-85.	4.2	89
28	Model-based replacement of rounded zeros in compositional data: Classical and robust approaches. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2688-2704.	1.2	118
29	The concept of compositional data analysis in practice â€” Total major element concentrations in agricultural and grazing land soils of Europe. <i>Science of the Total Environment</i> , 2012, 426, 196-210.	8.0	211
30	Analyzing Compositional Data with R. , 2013, , .		302
32	Equality in cumulative voting: A systematic review with an improvement proposal. <i>Information and Software Technology</i> , 2013, 55, 267-287.	4.4	21
33	Compositional data analysis in the study of integrated geochemical anomalies associated with mineralization. <i>Applied Geochemistry</i> , 2013, 28, 202-211.	3.0	137
34	Zeroes, Missings, and Outliers. , 2013, , 209-253.		7
35	Multiple linear regression modeling for compositional data. <i>Neurocomputing</i> , 2013, 122, 490-500.	5.9	115
36	Identification of local multivariate outliers. <i>Statistical Papers</i> , 2014, 55, 29-47.	1.2	46
37	Mapping of Fe mineralization-associated geochemical signatures using logratio transformed stream sediment geochemical data in eastern Tianshan, China. <i>Journal of Geochemical Exploration</i> , 2014, 141, 6-14.	3.2	53
38	Variation diagrams to statistically model the behavior of geochemical variables: Theory and applications. <i>Journal of Hydrology</i> , 2014, 519, 988-998.	5.4	19
39	Role of an impermeable layer in controlling groundwater chemistry in a basaltic aquifer beneath an agricultural field, Jeju Island, South Korea. <i>Applied Geochemistry</i> , 2014, 45, 82-93.	3.0	17
43	Centered Log-Ratio (clr) Transformation and Robust Principal Component Analysis of Long-Term NDVI Data Reveal Vegetation Activity Linked to Climate Processes. <i>Climate</i> , 2015, 3, 135-149.	2.8	40

#	ARTICLE	IF	CITATIONS
44	A new approach for assessing the state of environment using isometric log-ratio transformation and outlier detection for computation of mean PCDD/F patterns in biota. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 4149.	2.7	3
45	A comparative study of trend surface analysis and spectrum-area multifractal model to identify geochemical anomalies. <i>Journal of Geochemical Exploration</i> , 2015, 155, 84-90.	3.2	52
46	Reprint of "Identification of weak anomalies: A multifractal perspective". <i>Journal of Geochemical Exploration</i> , 2015, 154, 200-212.	3.2	16
47	Coupled effects on Kenyan horticulture following the 2008/2009 post-election violence and the 2010 volcanic eruption of Eyjafjallajökull. <i>Natural Hazards</i> , 2015, 76, 1205-1218.	3.4	15
48	Can Mn-S redox cycling drive sedimentary dolomite formation? A hypothesis. <i>Chemical Geology</i> , 2015, 404, 27-40.	3.3	33
49	Exploring topsoil geochemistry from the CoDA (Compositional Data Analysis) perspective: The multi-element data archive of the Campania Region (Southern Italy). <i>Journal of Geochemical Exploration</i> , 2015, 159, 302-316.	3.2	52
50	Identification of weak anomalies: A multifractal perspective. <i>Journal of Geochemical Exploration</i> , 2015, 148, 12-24.	3.2	80
51	Automatic Data Quality Control of Observations in Wireless Sensor Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 716-720.	3.1	9
52	Spatial characteristics of geochemical patterns related to Fe mineralization in the southwestern Fujian province (China). <i>Journal of Geochemical Exploration</i> , 2015, 148, 259-269.	3.2	31
53	A co-median approach to detect compositional outliers. <i>Journal of Applied Statistics</i> , 2016, 43, 2348-2362.	1.3	4
54	A comparative study of two modes for mapping felsic intrusions using geoinformatics. <i>Applied Geochemistry</i> , 2016, 75, 277-283.	3.0	8
55	Spatial analysis and visualization of exploration geochemical data. <i>Earth-Science Reviews</i> , 2016, 158, 9-18.	9.1	108
57	Classical and robust orthogonal regression between parts of compositional data. <i>Statistics</i> , 2016, 50, 1261-1275.	0.6	7
58	Using robust staged R-mode factor analysis and logistic function to identify probable Cu-mineralization zones in Khushf 1:100,000 sheets, east of Iran. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	6
59	Analysis of complex regional databases and their support in the identification of background/baseline compositional facies in groundwater investigation: developments and application examples. <i>Journal of Geochemical Exploration</i> , 2016, 164, 3-17.	3.2	13
60	Recognition of geochemical anomalies using a deep autoencoder network. <i>Computers and Geosciences</i> , 2016, 86, 75-82.	4.2	171
61	Exploratory tools for outlier detection in compositional data with structural zeros. <i>Journal of Applied Statistics</i> , 2017, 44, 734-752.	1.3	13
62	Exploratory data analysis for interval compositional data. <i>Advances in Data Analysis and Classification</i> , 2017, 11, 223-241.	1.4	5

#	ARTICLE	IF	CITATIONS
63	Mapping soil particle-size fractions: A comparison of compositional kriging and log-ratio kriging. Journal of Hydrology, 2017, 546, 526-541.	5.4	29
64	Potter's Wheel in the Iron Age in Central Europe: Process or Product Innovation?. Journal of Archaeological Method and Theory, 2017, 24, 1256-1299.	3.0	20
65	Enhancement and Mapping of Weak Multivariate Stream Sediment Geochemical Anomalies in Ahar Area, NW Iran. Natural Resources Research, 2017, 26, 443-455.	4.7	42
66	Comparing compositional multivariate outliers with autoencoder networks in anomaly detection at Hamich exploration area, east of Iran. Journal of Geochemical Exploration, 2017, 180, 15-23.	3.2	29
67	Identifying the source of natural gamma-rays in shallow-marine siliciclastic strata and their significance for shale evaluation: A case study of the CO2 storage aquifer at the Nagaoka site, Japan. Journal of Natural Gas Science and Engineering, 2017, 46, 782-792.	4.4	7
68	A new method for correlation analysis of compositional (environmental) data – a worked example. Science of the Total Environment, 2017, 607-608, 965-971.	8.0	99
69	An Affine Equivariant Multivariate Normal Score Transform for Compositional Data. Mathematical Geosciences, 2017, 49, 231-251.	2.4	29
70	Numerical Reconstruction of the Covariance Matrix of a Spherically Truncated Multinormal Distribution. Journal of Probability and Statistics, 2017, 2017, 1-24.	0.7	1
71	Compositional data analysis in epidemiology. Statistical Methods in Medical Research, 2018, 27, 1878-1891.	1.5	15
72	Identifying potential Au-Pb-Ag mineralization in SE Shuangkoushan, North Qaidam, Western China: Combined log-ratio approach and singularity mapping. Journal of Geochemical Exploration, 2018, 189, 109-121.	3.2	13
73	Soil geochemical follow-up in the Cilento World Heritage Park (Campania, Italy) through exploratory compositional data analysis and C-A fractal model. Journal of Geochemical Exploration, 2018, 189, 85-99.	3.2	34
74	Measuring the change under compositional data analysis (CoDA): Insight on the dynamics of geochemical systems. Journal of Geochemical Exploration, 2018, 189, 100-108.	3.2	21
75	Exploring uni-element geochemical data under a compositional perspective. Applied Geochemistry, 2018, 91, 174-184.	3.0	23
76	Evaluation of elemental mineralization rank using fractal and multivariate techniques and improving the performance by log-ratio transformation. Journal of Geochemical Exploration, 2018, 189, 11-24.	3.2	19
77	A robust Parafac model for compositional data. Journal of Applied Statistics, 2018, 45, 1347-1369.	1.3	9
78	Building a pedotransfer function for soil bulk density on regional dataset and testing its validity over a larger area. Geoderma, 2018, 312, 52-63.	5.1	48
79	Outlier detection using weighted holoentropy with hyperbolic tangent function. International Journal of Data Analysis Techniques and Strategies, 2018, 10, 182.	0.2	0
80	Multivariate modeling of glacial-marine lithostratigraphy combining scanning XRF, multisensory core properties, and CT imagery: IODP Site U1419. , 2018, 14, 1935-1960.		11

#	ARTICLE	IF	CITATIONS
81	Analyzing Compositional Data Using R. Springer Series in Statistics, 2018, , 17-34.	0.9	2
82	First Steps for a Statistical Analysis. Springer Series in Statistics, 2018, , 85-106.	0.9	0
83	Applied Compositional Data Analysis. Springer Series in Statistics, 2018, , .	0.9	150
84	Critical Analysis of Machine Learning Based Approaches for Fraud Detection in Financial Transactions. , 2018, , .		17
85	Innovative monitoring tools for the complex spatial dynamics of river chemistry: case study for the Alpine region. Environmental Earth Sciences, 2018, 77, 1.	2.7	7
86	A Survey on Multidimensional Scaling. ACM Computing Surveys, 2019, 51, 1-25.	23.0	116
87	Status, sources and contamination levels of organochlorine pesticide residues in urban and agricultural areas: a preliminary review in centralâ€”southern Italian soils. Environmental Science and Pollution Research, 2018, 25, 26361-26382.	5.3	40
88	Source patterns of Zn, Pb, Cr and Ni potentially toxic elements (PTEs) through a compositional discrimination analysis: A case study on the Campanian topsoil data. Geoderma, 2018, 331, 87-99.	5.1	44
89	Soil contamination compositional index: A new approach to quantify contamination demonstrated by assessing compositional source patterns of potentially toxic elements in the Campania Region (Italy). Applied Geochemistry, 2018, 96, 264-276.	3.0	23
90	The fish farm of origin is assigned by the element profile of Atlantic salmon (<i>Salmo salar</i> L.) scales in a simulated escape event. Fisheries Research, 2018, 206, 1-13.	1.7	5
91	Discussion of â€œThe power of monitoring: how to make the most of a contaminated multivariate sampleâ€”by Andrea Cerioli, Marco Riani, Anthony C. Atkinson and Aldo Corbellini. Statistical Methods and Applications, 2018, 27, 631-639.	1.2	0
92	Compositional analysis of dietary patterns. Statistical Methods in Medical Research, 2019, 28, 2834-2847.	1.5	12
93	Geogenic versus anthropogenic behaviour and geochemical footprint of Al, Na, K and P in the Campania region (Southern Italy) soils through compositional data analysis and enrichment factor. Geoderma, 2019, 335, 12-26.	5.1	33
94	Rejoinder on: Compositional data: the sample space and its structure. Test, 2019, 28, 658-663.	1.1	6
95	Applications of chemostratigraphy in a characterization of shale gas Sedimentary Microfacies and predictions of sweet spots â€”taking the Cambrian black shales in Western Hubei as an example. Marine and Petroleum Geology, 2019, 109, 547-560.	3.3	22
97	Comparison of Methods for Determining the Thresholds of Geochemical Anomalies and the Prospecting Directionâ€”A Case of Gold Deposits in the Gouli Exploration Area, Qinghai Province. Minerals (Basel, Switzerland), 2019, 9, 368.	2.0	9
98	A systematic approach for the comparison of PM10, PM2.5, and PM1 mass concentrations of characteristic environmental sites. Environmental Monitoring and Assessment, 2019, 191, 738.	2.7	4
99	Stream sediment geochemical data analysis for district-scale mineral exploration targeting: Measuring the performance of the spatial U-statistic and C-A fractal modeling. Ore Geology Reviews, 2019, 113, 103115.	2.7	35

#	ARTICLE	IF	CITATIONS
100	Identification of multivariate geochemical anomalies using spatial autocorrelation analysis and robust statistics. <i>Ore Geology Reviews</i> , 2019, 111, 102985.	2.7	23
101	Statistical methods for the geochemical characterisation of surface waters: The case study of the Tiber River basin (Central Italy). <i>Computers and Geosciences</i> , 2019, 131, 80-88.	4.2	17
102	Integration of auto-encoder network with density-based spatial clustering for geochemical anomaly detection for mineral exploration. <i>Computers and Geosciences</i> , 2019, 130, 43-56.	4.2	39
103	Robust multivariate analysis of compositional data of treated wastewaters. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	1
104	Urban residency and leukocyte profiles in a traditionally migratory songbird. <i>Animal Migration</i> , 2019, 6, 49-59.	1.0	5
105	Maximum Entropy and Random Forest Modeling of Mineral Potential: Analysis of Gold Prospectivity in the Hezuoâ€œMeiwu District, West Qinling Orogen, China. <i>Natural Resources Research</i> , 2019, 28, 645-664.	4.7	35
106	Geo-statistical and multivariate analyses of potentially toxic elements' distribution in the soil of Hainan Island (China): A comparison between the topsoil and subsoil at a regional scale. <i>Journal of Geochemical Exploration</i> , 2019, 197, 48-59.	3.2	24
107	Geostatistics for Compositional Data: An Overview. <i>Mathematical Geosciences</i> , 2019, 51, 485-526.	2.4	52
108	Applied statistical functions and multivariate analysis of geochemical compositional data to evaluate mineralization in Glojeh polymetallic deposit, NW Iran. <i>Frontiers of Earth Science</i> , 2019, 13, 229-246.	2.1	3
109	An Incorrect Data Detection Method for Big Data Cleaning of Machinery Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 2326-2336.	7.9	84
110	Evaluation of robust outlier detection methods for zero-inflated complex data. <i>Journal of Applied Statistics</i> , 2020, 47, 1144-1167.	1.3	24
111	Preprocessing alternatives for compositional data related to water, sanitation and hygiene. <i>Science of the Total Environment</i> , 2020, 743, 140519.	8.0	10
112	Sea spray correction in $\delta^{13}\text{C}$ carbonate, $\delta^{18}\text{O}$ carbonate, $\delta^{18}\text{O}$ phosphate, and $\delta^{34}\text{S}$ collagen values of coastal humans - A methodological approach. <i>Science of the Total Environment</i> , 2020, 744, 140907.	8.0	7
113	Compositional Data Analysis in Chemometrics. , 2020, , 641-662.		0
114	A new reliability evaluation method of injection/falloff testing interpretation in coal reservoir based on FAHP and cloud model. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-17.	2.3	4
115	Conventional and nonconventional exploration techniquesâ€œprinciples. , 2020, , 87-149.		0
116	Multivariate Outlier Detection in Applied Data Analysis: Global, Local, Compositional and Cellwise Outliers. <i>Mathematical Geosciences</i> , 2020, 52, 1049-1066.	2.4	12
117	Comparison of additive and isometric log-ratio transformations combined with machine learning and regression kriging models for mapping soil particle size fractions. <i>Geoderma</i> , 2020, 365, 114214.	5.1	13

#	ARTICLE	IF	CITATIONS
118	Recognizing multivariate geochemical anomalies for mineral exploration by combining deep learning and one-class support vector machine. Computers and Geosciences, 2020, 140, 104484.	4.2	63
119	Outlier detection and robust variable selection via the penalized weighted LAD-LASSO method. Journal of Applied Statistics, 2021, 48, 234-246.	1.3	12
120	A classification framework for multivariate compositional data with Dirichlet feature embedding. Knowledge-Based Systems, 2021, 212, 106614.	7.1	4
121	Sample Truncation Strategies for Outlier Removal in Geochemical Data: The MCD Robust Distance Approach Versus t-SNE Ensemble Clustering. Mathematical Geosciences, 2021, 53, 105-130.	2.4	11
123	Occurrence, behaviour and environmental risk assessment of trace metals in stream sediments from southwestern Burkina Faso, West Africa. Environmental Monitoring and Assessment, 2021, 193, 133.	2.7	0
124	Identifying porphyry-Cu geochemical footprints using local neighborhood statistics in Baft area, Iran. Frontiers of Earth Science, 2021, 15, 106-120.	2.1	5
125	Analysis of lithogeochemical data using log-ratio transformations and C-A fractal to separate geochemical anomalies in Tak-Talar, Iran. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
126	Mapping Surficial Soil Particle Size Fractions in Alpine Permafrost Regions of the Qinghai-Tibet Plateau. Remote Sensing, 2021, 13, 1392.	4.0	5
128	Analysing Pairwise Logratios Revisited. Mathematical Geosciences, 2021, 53, 1643-1666.	2.4	15
129	Urine NMR-based TB metabolic fingerprinting for the diagnosis of TB in children. Scientific Reports, 2021, 11, 12006.	3.3	9
130	Taking Kinetic Evaluations of Degradation Data to the Next Level with Nonlinear Mixed-Effects Models. Environments - MDPI, 2021, 8, 71.	3.3	1
131	A Truly Multivariate Normal Score Transform Based on Lagrangian Flow. Quantitative Geology and Geostatistics, 2017, , 107-118.	0.1	8
132	Robustness for Compositional Data. , 2013, , 117-131.		6
133	Robust Methods for Compositional Data. , 2010, , 79-88.		1
134	Discovery and validation of an NMR-based metabolomic profile in urine as TB biomarker. Scientific Reports, 2020, 10, 22317.	3.3	24
135	Robust principal component analysis for compositional tables. Journal of Applied Statistics, 2021, 48, 214-233.	1.3	5
136	Bayesian Surface Warping Approach for Rectifying Geological Boundaries Using Displacement Likelihood and Evidence from Geochemical Assays. ACM Transactions on Spatial Algorithms and Systems, 2022, 8, 1-23.	1.4	8
137	Presumption in the Public Administration Sector. Acta Physica Polonica A, 2016, 129, 1011-1017.	0.5	9

#	ARTICLE	IF	CITATIONS
138	Diagnosis of the nutrient compositional space of fruit crops. Revista Brasileira De Fruticultura, 2011, 33, 321-334.	0.5	54
139	Multivariate analysis of log-ratio transformed data and its priority in mining science, porphyry and polymetallic vein deposits case studies. Bulletin of the Mineral Research and Exploration, 0, , 1-2.	0.5	1
140	Outlier Detection for Multivariate Multiple Regression in Y-direction. Journal of Applied Sciences, 2014, 14, 2507-2515.	0.3	1
141	Supervised Linear Classification Performance Based on Marginal Probability for Two Groups. British Journal of Mathematics & Computer Science, 2015, 5, 606-612.	0.3	0
142	A Solution To Rational Decision Making Via Compositional Data Analysis: A Case Study Using Students Cellular Phone Tendencies. Alphanumeric Journal, 2015, 3, .	0.7	3
144	Trachy-phonolite lava pebbles used in the ancient settlement of Oplontis (Torre Annunziata, Naples): petrochemical data supporting the origin from an old effusive activity of the Somma-Vesuvius volcano. Annals of Geophysics, 2018, 61, .	1.0	0
145	Big Data for Fraud Detection. Computational Social Sciences, 2019, , 177-192.	0.4	1
146	Investigating the spatial distribution of antimony geochemical anomalies located in the Yunnan-Guizhou-Guangxi region, China. Chemie Der Erde, 2021, 81, 125829.	2.0	2
147	Andic Soil Properties and Tephra Layers Hamper C Turnover in Icelandic Peatlands. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006433.	3.0	4
150	Assessing Indices Tracking Changes in River Geochemistry and Implications for Monitoring. Natural Resources Research, 2022, 31, 1061-1079.	4.7	7
151	Insights Into Magma Storage Beneath a Frequently Erupting Arc Volcano (Villarrica, Chile) From Unsupervised Machine Learning Analysis of Mineral Compositions. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	11
152	Compositional Data Analysis in E-Tourism Research. , 2022, , 1-25.		1
155	Application of Chemical Sequence Stratigraphy to the Prediction of Shale Gas Sweet Spots in the Wufeng and Lower Longmaxi Formations within the Upper Yangtze Region. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overdocked 10If 50 257		
156	Biogeochemical prospecting for gold at the Yellowknife City Gold Project, Northwest Territories, Canada: Part 1 - Species optimization. Applied Geochemistry, 2022, 145, 105423.	3.0	3
157	Additive Logistic Skew-Normal Distribution. Encyclopedia of Earth Sciences Series, 2022, , 1-6.	0.1	0
158	Compositional Data Analysis in E-Tourism Research. , 2022, , 893-917.		0
159	A new version of the Langelier-Ludwig square diagram under a compositional perspective. Journal of Geochemical Exploration, 2022, 242, 107084.	3.2	1
160	Regional Drivers of Stream Chemical Behavior: Leveraging Lithology, Land Use, and Climate Gradients Across the Colorado River, Texas USA. Water Resources Research, 2022, 58, .	4.2	4

#	ARTICLE	IF	CITATIONS
161	Multivariate Cross-Validation and Measures of Accuracy and Precision. Mathematical Geosciences, 2023, 55, 693-711.	2.4	1
162	Biogeochemical prospecting for gold at the Yellowknife City Gold Project, Northwest Territories, Canada: Part 2—Robust statistical analysis. Applied Geochemistry, 2023, 149, 105559.	3.0	3
163	The Provenance Study of the Raw Materials of the Ancient Terracotta Found near the Crimean Bridge: Natural-Science Approach. Crystallography Reports, 2022, 67, 1279-1291.	0.6	1
164	Metallogenic-Factor Variational Autoencoder for Geochemical Anomaly Detection by Ad-Hoc and Post-Hoc Interpretability Algorithms. Natural Resources Research, 2023, 32, 835-853.	4.7	10
165	Mapping soil organic carbon fractions for Australia, their stocks, and uncertainty. Biogeosciences, 2023, 20, 1559-1586.	3.3	2
166	Geochemical mapping by stream sediments of the NW portion of Quadril�tero Ferr�fero, Brazil: Application of the exploratory data analysis (EDA) and a proposal for generation of new gold targets in Pitangui gold district. Journal of Geochemical Exploration, 2023, 250, 107232.	3.2	1
167	A Late Holocene climate reconstruction from the high-altitude Lake G��lc��k sedimentary records, Isparta (SW Anatolia). Quaternary Research, 0, , 1-14.	1.7	0
168	Visualizing high dimensional structures in geochemical datasets using a combined compositional data analysis and Databionic swarm approach. International Journal of Coal Geology, 2023, 275, 104303.	5.0	2
169	Additive Logistic Skew-Normal Distribution. Encyclopedia of Earth Sciences Series, 2023, , 10-15.	0.1	0
170	Additive Logistic Normal Distribution. Encyclopedia of Earth Sciences Series, 2023, , 4-9.	0.1	0
171	Principal component analysis on twenty years (2000��2020) of geochemical and geophysical observations at Campi Flegrei active caldera. Scientific Reports, 2023, 13, .	3.3	0
172	Resilience and high compositional variability reflect the complex response of river waters to global drivers: The Eastern Siberian River Chemistry database. Science of the Total Environment, 2024, 908, 168120.	8.0	0
173	Elemental composition and metal pollution in Egyptian Red Sea mangrove sediments: Characterization and origin. Marine Pollution Bulletin, 2024, 198, 115830.	5.0	0
174	Distribution, Pre-analysis of Missing Values and Data Quality. Statistics and Computing, 2023, , 55-87.	0.2	0
175	Research on ore prospecting prediction based on maximum entropy model. Arabian Journal of Geosciences, 2024, 17, .	1.3	0
176	Statistical Perspective on the Petrological Utility of Polyphase Groundmass Compositions Inferred via Defocused Beam Electron Probe Microanalysis. Geostandards and Geoanalytical Research, 0, , .	3.1	0
177	Robust CoDA balances and the role of the variance in complex riverine geochemical systems. Journal of Geochemical Exploration, 2024, 259, 107438.	3.2	0
178	A New Discovery of Cu Mineralization in the North Qaidam, Tibet via Log-Ratio, Robust Factor Analysis, and Spectrum��Area Modeling. Applied Sciences (Switzerland), 2024, 14, 2597.	2.5	0