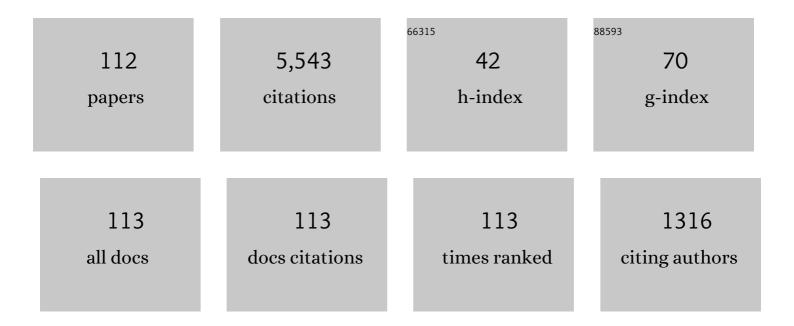
List of Publications by Year in descending order

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| #  | Article  | lF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Support vector machine: A tool for mapping mineral prospectivity. Computers and Geosciences, 2011, 37, 1967-1975.  | 2.0 | 300       |
| 2  | Fractal/multifractal modeling of geochemical data: A review. Journal of Geochemical Exploration, 2016, 164, 33-41.   | 1.5 | 231       |
| 3  | Identifying geochemical anomalies associated with Cu and Pb–Zn skarn mineralization using principal<br>component analysis and spectrum–area fractal modeling in the Gangdese Belt, Tibet (China). Journal<br>of Geochemical Exploration, 2011, 111, 13-22. | 1.5 | 219       |
| 4  | Deep learning and its application in geochemical mapping. Earth-Science Reviews, 2019, 192, 1-14.  | 4.0 | 214       |
| 5  | Application of singularity mapping technique to identify local anomalies using stream sediment<br>geochemical data, a case study from Gangdese, Tibet, western China. Journal of Geochemical<br>Exploration, 2009, 101, 225-235.                           | 1.5 | 204       |
| 6  | Recognition of geochemical anomalies using a deep autoencoder network. Computers and Geosciences, 2016, 86, 75-82.   | 2.0 | 171       |
| 7  | A comparison study of the C–A and S–A models with singularity analysis to identify geochemical anomalies in covered areas. Applied Geochemistry, 2013, 33, 165-172.  | 1.4 | 137       |
| 8  | Compositional data analysis in the study of integrated geochemical anomalies associated with mineralization. Applied Geochemistry, 2013, 28, 202-211.  | 1.4 | 137       |
| 9  | Application of fractal models to characterization of vertical distribution of geochemical element concentration. Journal of Geochemical Exploration, 2009, 102, 37-43.   | 1.5 | 127       |
| 10 | Machine Learning of Mineralization-Related Geochemical Anomalies: A Review of Potential Methods.<br>Natural Resources Research, 2017, 26, 457-464.   | 2.2 | 123       |
| 11 | Mapping mineral prospectivity through big data analytics and a deep learning algorithm. Ore Geology<br>Reviews, 2018, 102, 811-817.  | 1.1 | 115       |
| 12 | Spatial analysis and visualization of exploration geochemical data. Earth-Science Reviews, 2016, 158, 9-18.  | 4.0 | 108       |
| 13 | Decomposing of mixed pattern of arsenic using fractal model in Gangdese belt, Tibet, China. Applied<br>Geochemistry, 2011, 26, S271-S273.  | 1.4 | 100       |
| 14 | Big Data Analytics of Identifying Geochemical Anomalies Supported by Machine Learning Methods.<br>Natural Resources Research, 2018, 27, 5-13.  | 2.2 | 100       |
| 15 | Evaluation of uncertainty in mineral prospectivity mapping due to missing evidence: A case study with<br>skarn-type Fe deposits in Southwestern Fujian Province, China. Ore Geology Reviews, 2015, 71, 502-515.  | 1.1 | 98        |
| 16 | Geodata Science-Based Mineral Prospectivity Mapping: A Review. Natural Resources Research, 2020, 29,<br>3415-3424.   | 2.2 | 92        |
| 17 | Fractal/multifractal modelling of geochemical exploration data. Journal of Geochemical Exploration, 2012, 122, 1-3.  | 1.5 | 90        |
| 18 | Random-Drop Data Augmentation of Deep Convolutional Neural Network for Mineral Prospectivity<br>Mapping. Natural Resources Research, 2021, 30, 27-38.  | 2.2 | 90        |

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|----|--|-----|-----------|
| 19 | A comparative study of fuzzy weights of evidence and random forests for mapping mineral<br>prospectivity for skarn-type Fe deposits in the southwestern Fujian metallogenic belt, China. Science<br>China Earth Sciences, 2016, 59, 556-572. | 2.3 | 87        |
| 20 | Identification of weak anomalies: A multifractal perspective. Journal of Geochemical Exploration, 2015, 148, 12-24.  | 1.5 | 80        |
| 21 | GIS-based rare events logistic regression for mineral prospectivity mapping. Computers and Geosciences, 2018, 111, 18-25.  | 2.0 | 79        |
| 22 | Mapping mineral prospectivity for Cu polymetallic mineralization in southwest Fujian Province, China.<br>Ore Geology Reviews, 2016, 75, 16-28.   | 1.1 | 75        |
| 23 | Identification of geochemical anomalies associated with mineralization in the Fanshan district, Fujian,<br>China. Journal of Geochemical Exploration, 2014, 139, 170-176.  | 1.5 | 67        |
| 24 | ldentifying geochemical anomalies associated with Au–Cu mineralization using multifractal and<br>artificial neural network models in the Ningqiang district, Shaanxi, China. Journal of Geochemical<br>Exploration, 2016, 164, 54-64.        | 1.5 | 67        |
| 25 | The processing methods of geochemical exploration data: past, present, and future. Applied<br>Geochemistry, 2021, 132, 105072.   | 1.4 | 67        |
| 26 | Fractal characterization of the spatial distribution of geological point processes. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 394-402.  | 1.4 | 64        |
| 27 | Recognition of geochemical anomalies using a deep variational autoencoder network. Applied<br>Geochemistry, 2020, 122, 104710.   | 1.4 | 63        |
| 28 | Recognizing multivariate geochemical anomalies for mineral exploration by combining deep learning and one-class support vector machine. Computers and Geosciences, 2020, 140, 104484.  | 2.0 | 63        |
| 29 | Mapping Mineral Prospectivity via Semi-supervised Random Forest. Natural Resources Research, 2020, 29, 189-202.  | 2.2 | 62        |
| 30 | Effects of Random Negative Training Samples on Mineral Prospectivity Mapping. Natural Resources<br>Research, 2020, 29, 3443-3455.  | 2.2 | 62        |
| 31 | Application of a hybrid method combining multilevel fuzzy comprehensive evaluation with asymmetric fuzzy relation analysis to mapping prospectivity. Ore Geology Reviews, 2009, 35, 101-108.   | 1.1 | 56        |
| 32 | Mapping complexity of spatial distribution of faults using fractal and multifractal models: vectoring towards exploration targets. Computers and Geosciences, 2011, 37, 1958-1966.   | 2.0 | 55        |
| 33 | Detection of the multivariate geochemical anomalies associated with mineralization using a deep convolutional neural network and a pixel-pair feature method. Applied Geochemistry, 2021, 130, 104994.                                       | 1.4 | 54        |
| 34 | Uncertainties in GIS-Based Mineral Prospectivity Mapping: Key Types, Potential Impacts and Possible<br>Solutions. Natural Resources Research, 2021, 30, 3059-3079.   | 2.2 | 53        |
| 35 | Exploring the effects of cell size in geochemical mapping. Journal of Geochemical Exploration, 2012, 112, 357-367.   | 1.5 | 52        |
| 36 | A comparative study of trend surface analysis and spectrum–area multifractal model to identify geochemical anomalies. Journal of Geochemical Exploration, 2015, 155, 84-90.  | 1.5 | 52        |

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|----|---|-----|-----------|
| 37 | Geodata science and geochemical mapping. Journal of Geochemical Exploration, 2020, 209, 106431.   | 1.5 | 48        |
| 38 | The mineralization age of the Makeng Fe deposit, South China: implications from U–Pb and Sm–Nd<br>geochronology. International Journal of Earth Sciences, 2015, 104, 663-682.             | 0.9 | 47        |
| 39 | Identification of geochemical anomalies through combined sequential Gaussian simulation and grid-based local singularity analysis. Computers and Geosciences, 2018, 118, 52-64.           | 2.0 | 47        |
| 40 | Robust Feature Extraction for Geochemical Anomaly Recognition Using a Stacked Convolutional Denoising Autoencoder. Mathematical Geosciences, 2022, 54, 623-644.                           | 1.4 | 47        |
| 41 | Sr–Nd–Pb isotope systematics of magnetite: Implications for the genesis of Makeng Fe deposit,<br>southern China. Ore Geology Reviews, 2014, 57, 53-60.                                    | 1.1 | 45        |
| 42 | Detection of geochemical anomalies related to mineralization using the GANomaly network. Applied Geochemistry, 2021, 131, 105043.   | 1.4 | 44        |
| 43 | A nonlinear controlling function of geological features on magmatic–hydrothermal mineralization.<br>Scientific Reports, 2016, 6, 27127.   | 1.6 | 42        |
| 44 | Effects of misclassification costs on mapping mineral prospectivity. Ore Geology Reviews, 2017, 82, 1-9.  | 1.1 | 42        |
| 45 | Selection of an elemental association related to mineralization using spatial analysis. Journal of Geochemical Exploration, 2018, 184, 150-157.   | 1.5 | 42        |
| 46 | Mapping Geochemical Anomalies Through Integrating Random Forest and Metric Learning Methods.<br>Natural Resources Research, 2019, 28, 1285-1298.  | 2.2 | 42        |
| 47 | ArcFractal: An ArcGIS Add-In for Processing Geoscience Data Using Fractal/Multifractal Models.<br>Natural Resources Research, 2020, 29, 3-12.   | 2.2 | 42        |
| 48 | Mapping geochemical anomalies related to Fe–polymetallic mineralization using the maximum margin metric learning method. Ore Geology Reviews, 2019, 107, 258-265.                         | 1.1 | 39        |
| 49 | A positive and unlabeled learning algorithm for mineral prospectivity mapping. Computers and Geosciences, 2021, 147, 104667.  | 2.0 | 39        |
| 50 | Mapping of district-scale potential targets using fractal models. Journal of Geochemical Exploration, 2012, 122, 34-46.   | 1.5 | 38        |
| 51 | A Monte Carlo-based framework for risk-return analysis in mineral prospectivity mapping. Geoscience<br>Frontiers, 2020, 11, 2297-2308.  | 4.3 | 37        |
| 52 | A Comparison of Modified Fuzzy Weights of Evidence, Fuzzy Weights of Evidence, and Logistic<br>Regression for Mapping Mineral Prospectivity. Mathematical Geosciences, 2014, 46, 869-885. | 1.4 | 36        |
| 53 | Recognition of multivariate geochemical anomalies associated with mineralization using an improved generative adversarial network. Ore Geology Reviews, 2021, 136, 104264.                | 1.1 | 35        |
| 54 | Application of Fractal Models to Distinguish betweenÂDifferent Mineral Phases. Mathematical<br>Geosciences, 2009, 41, 71-80.  | 1.4 | 34        |

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|----|---|-----|-----------|
| 55 | Identification of weak geochemical anomalies using robust neighborhood statistics coupled with GIS in covered areas. Journal of Geochemical Exploration, 2014, 136, 93-101.                                 | 1.5 | 34        |
| 56 | Discovering geochemical patterns by factor-based cluster analysis. Journal of Geochemical Exploration, 2017, 181, 106-115.  | 1.5 | 34        |
| 57 | A Geologically Constrained Variational Autoencoder for Mineral Prospectivity Mapping. Natural<br>Resources Research, 2022, 31, 1121-1133.   | 2.2 | 34        |
| 58 | Evaluation of the uncertainty in estimation of metal resources of skarn tin in Southern China. Ore<br>Geology Reviews, 2009, 35, 415-422.   | 1.1 | 33        |
| 59 | A MATLAB-based program for processing geochemical data using fractal/multifractal modeling. Earth<br>Science Informatics, 2015, 8, 937-947.   | 1.6 | 33        |
| 60 | An extended local gap statistic for identifying geochemical anomalies. Journal of Geochemical Exploration, 2016, 164, 86-93.  | 1.5 | 33        |
| 61 | Geological Features and Formation Processes of the <scp>M</scp> akeng <scp>F</scp> e Deposit,<br><scp>C</scp> hina. Resource Geology, 2015, 65, 266-284.  | 0.3 | 31        |
| 62 | Spatial characteristics of geochemical patterns related to Fe mineralization in the southwestern<br>Fujian province (China). Journal of Geochemical Exploration, 2015, 148, 259-269.                        | 1.5 | 31        |
| 63 | Spatial analysis of Fe deposits in Fujian Province, China: Implications for mineral exploration. Journal of Earth Science (Wuhan, China), 2015, 26, 813-820.  | 1.1 | 30        |
| 64 | Recognizing geochemical anomalies via stochastic simulation-based local singularity analysis. Journal of Geochemical Exploration, 2019, 198, 29-40.   | 1.5 | 30        |
| 65 | Visualization and interpretation of geochemical exploration data using GIS and machine learning methods. Applied Geochemistry, 2021, 134, 105111.   | 1.4 | 30        |
| 66 | Application of the tectono-geochemistry method to mineral prospectivity mapping: a case study of the<br>Gaosong tin-polymetallic deposit, Gejiu district, SW China. Ore Geology Reviews, 2015, 71, 719-734. | 1.1 | 29        |
| 67 | Identifying gravity anomalies caused by granitic intrusions in Nanling mineral district, China: a multifractal perspective. Geophysical Prospecting, 2015, 63, 256-270.                                     | 1.0 | 27        |
| 68 | Mapping prospectivity for regolith-hosted REE deposits via convolutional neural network with generative adversarial network augmented data. Ore Geology Reviews, 2022, 142, 104693.                         | 1.1 | 26        |
| 69 | Quantifying the spatial characteristics of geochemical patterns via GIS-based geographically weighted statistics. Journal of Geochemical Exploration, 2015, 157, 110-119.                                   | 1.5 | 25        |
| 70 | Mineral Prospectivity Mapping via Gated Recurrent Unit Model. Natural Resources Research, 2022, 31, 2065-2079.  | 2.2 | 24        |
| 71 | Exploring uni-element geochemical data under a compositional perspective. Applied Geochemistry, 2018, 91, 174-184.  | 1.4 | 23        |
| 72 | Knowledge discovery of geochemical patterns from a data-driven perspective. Journal of Geochemical Exploration, 2021, 231, 106872.  | 1.5 | 23        |

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| 73 | A Physically Constrained Variational Autoencoder for Geochemical Pattern Recognition.<br>Mathematical Geosciences, 2022, 54, 783-806.   | 1.4 | 23        |
| 74 | Fusion of Geochemical and Remote-Sensing Data for Lithological Mapping Using Random Forest Metric<br>Learning. Mathematical Geosciences, 2021, 53, 1125-1145.   | 1.4 | 22        |
| 75 | A geologically-constrained deep learning algorithm for recognizing geochemical anomalies.<br>Computers and Geosciences, 2022, 162, 105100.  | 2.0 | 22        |
| 76 | Identification of geochemical anomalies via local RX anomaly detector. Journal of Geochemical Exploration, 2018, 189, 64-71.  | 1.5 | 21        |
| 77 | Mineral prospectivity mapping using a joint singularity-based weighting method and long short-term memory network. Computers and Geosciences, 2022, 158, 104974.  | 2.0 | 21        |
| 78 | Assessing geochemical anomalies using geographically weighted lasso. Applied Geochemistry, 2020, 119, 104668.   | 1.4 | 20        |
| 79 | Weathering reactions and isometric log-ratio coordinates: Do they speak to each other?. Applied Geochemistry, 2016, 75, 189-199.  | 1.4 | 19        |
| 80 | Regional Exploration Targeting Model for Gangdese Porphyry Copper Deposits. Resource Geology, 2011, 61, 296-303.  | 0.3 | 16        |
| 81 | Reprint of "ldentification of weak anomalies: A multifractal perspectiveâ€: Journal of Geochemical<br>Exploration, 2015, 154, 200-212.  | 1.5 | 16        |
| 82 | Mapping spatial distribution characteristics of lineaments extracted from remote sensing image using fractal and multifractal models. Journal of Earth Science (Wuhan, China), 2017, 28, 507-515.                                       | 1.1 | 16        |
| 83 | Mapping Himalayan leucogranites using a hybrid method of metric learning and support vector machine. Computers and Geosciences, 2020, 138, 104455.  | 2.0 | 16        |
| 84 | Application of improved bi-dimensional empirical mode decomposition (BEMD) based on Perona–Malik<br>to identify copper anomaly association in the southwestern Fujian (China). Journal of Geochemical<br>Exploration, 2016, 164, 65-74. | 1.5 | 14        |
| 85 | A fractal measure of spatial association between landslides and conditioning factors. Journal of<br>Earth Science (Wuhan, China), 2017, 28, 588-594.  | 1.1 | 14        |
| 86 | Mineral Exploration Using Subtle or Negative Geochemical Anomalies. Journal of Earth Science<br>(Wuhan, China), 2021, 32, 439-454.  | 1.1 | 14        |
| 87 | ITRAX: A potential tool to explore the physical and chemical properties of mineralized rocks in mineral resource exploration. Journal of Geochemical Exploration, 2013, 132, 149-155.   | 1.5 | 13        |
| 88 | Fractal analysis of geochemical landscapes using scaling noise model. Journal of Geochemical Exploration, 2016, 161, 62-71.   | 1.5 | 13        |
| 89 | The relationships between magnetic susceptibility and elemental variations for mineralized rocks.<br>Journal of Geochemical Exploration, 2014, 146, 17-26.  | 1.5 | 12        |
| 90 | Identification and mapping of lithogeochemical signatures using staged factor analysis and<br>fractal/multifractal models. Geochemistry: Exploration, Environment, Analysis, 2017, 17, 239-251.   | 0.5 | 12        |

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| 91  | Spatial modelling of hydrothermal mineralization-related geochemical patterns using INLA+SPDE and local singularity analysis. Computers and Geosciences, 2021, 154, 104822.  | 2.0 | 12        |
| 92  | Analysis of Temporal and Spatial Characteristics of Urban Expansion in Xiaonan District from 1990 to 2020 Using Time Series Landsat Imagery. Remote Sensing, 2021, 13, 4299.   | 1.8 | 12        |
| 93  | Visual Interpretable Deep Learning Algorithm for Geochemical Anomaly Recognition. Natural Resources Research, 2022, 31, 2211-2223.   | 2.2 | 12        |
| 94  | A fractal measure of mass transfer in fluid–rock interaction. Ore Geology Reviews, 2018, 95, 569-574.  | 1.1 | 11        |
| 95  | Mapping of Himalaya Leucogranites Based on ASTER and Sentinel-2A Datasets Using a Hybrid Method of<br>Metric Learning and Random Forest. IEEE Journal of Selected Topics in Applied Earth Observations and<br>Remote Sensing, 2020, 13, 1925-1936. | 2.3 | 11        |
| 96  | Lithological Mapping Based on Fully Convolutional Network and Multi-Source Geological Data.<br>Remote Sensing, 2021, 13, 4860.   | 1.8 | 11        |
| 97  | Quantifying the Distribution Characteristics of Geochemical Elements and Identifying Their<br>Associations in Southwestern Fujian Province, China. Minerals (Basel, Switzerland), 2020, 10, 183.   | 0.8 | 10        |
| 98  | Model averaging for identification of geochemical anomalies linked to mineralization. Ore Geology<br>Reviews, 2022, 146, 104955.   | 1.1 | 10        |
| 99  | A comparative study of two modes for mapping felsic intrusions using geoinformatics. Applied<br>Geochemistry, 2016, 75, 277-283.   | 1.4 | 8         |
| 100 | Lithological Mapping Using a Convolutional Neural Network based on Stream Sediment Geochemical<br>Survey Data. Natural Resources Research, 2022, 31, 2397-2412.  | 2.2 | 8         |
| 101 | Geoinformatics in Applied Geochemistry. Journal of Geochemical Exploration, 2016, 164, 1-2.  | 1.5 | 6         |
| 102 | Introduction to the thematic issue: analysis of exploration geochemical data for mapping of anomalies. Geochemistry: Exploration, Environment, Analysis, 2017, 17, 183-185.  | 0.5 | 6         |
| 103 | Controls on and prospectivity mapping of volcanic-type uranium mineralization in the Pucheng district, NW Fujian, China. Ore Geology Reviews, 2019, 112, 103028.   | 1.1 | 5         |
| 104 | GIS, Geostatistics, and Machine Learning in Medical Geology. , 2021, , 215-234.  |     | 5         |
| 105 | In situ monitoring of elemental losses and gains during weathering using the spatial element patterns obtained by portable XRF. Journal of Geochemical Exploration, 2021, 229, 106842.   | 1.5 | 5         |
| 106 | Modeling singular mineralization processes due to fluid pressure fluctuations. Chemical Geology, 2020, 535, 119458.  | 1.4 | 4         |
| 107 | Google Earth-aided visualization and interpretation of geochemical survey data. Geochemistry:<br>Exploration, Environment, Analysis, 2022, 22, geochem2021-079.  | 0.5 | 4         |
| 108 | A fractal model of granitic intrusion and variability based on cellular automata. Computers and<br>Geosciences, 2019, 129, 40-48.  | 2.0 | 3         |

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|-----|---|-----|-----------|
| 109 | Preface to the Special Issue on Digital Geosciences and Quantitative Exploration of Mineral<br>Resources. Journal of Earth Science (Wuhan, China), 2021, 32, 267-268.   | 1.1 | 3         |
| 110 | Investigating fluid-rock interaction at the hand-specimen scale via ITRAX. Journal of Geochemical Exploration, 2019, 204, 57-65.  | 1.5 | 2         |
| 111 | Construction Land Information Extraction and Expansion Analysis of Xiaogan City Using One-Class<br>Support Vector Machine. IEEE Journal of Selected Topics in Applied Earth Observations and Remote<br>Sensing, 2022, 15, 3519-3532.    | 2.3 | 1         |
| 112 | Response to comment by Helmut Schaeben on "A Comparison of Modified Fuzzy Weights of Evidence,<br>Fuzzy Weights of Evidence, and Logistic Regression for Mapping Mineral Prospectivity― Mathematical<br>Geosciences, 2014, 46, 895-900. | 1.4 | 0         |