

Aleksandr P Sergeev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1381312/publications.pdf>

Version: 2024-02-01

68
papers

324
citations

1040056

9
h-index

888059

17
g-index

68
all docs

68
docs citations

68
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining spatial autocorrelation with machine learning increases prediction accuracy of soil heavy metals. <i>Catena</i> , 2019, 174, 425-435.	5.0	69
2	High variation topsoil pollution forecasting in the Russian Subarctic: Using artificial neural networks combined with residual kriging. <i>Applied Geochemistry</i> , 2018, 88, 188-197.	3.0	49
3	A two-step combined algorithm based on NARX neural network and the subsequent prediction of the residues improves prediction accuracy of the greenhouse gases concentrations. <i>Neural Computing and Applications</i> , 2021, 33, 1547-1557.	5.6	22
4	Method for reconstructing the initial baseline relationship between potentially harmful element and conservative element concentrations in urban puddle sediment. <i>Geoderma</i> , 2018, 326, 1-8.	5.1	16
5	Experimental investigation of the onset of instability in a radial Hele-Shaw cell. <i>Physical Review E</i> , 2009, 80, 066306.	2.1	14
6	Case of soil surface chromium anomaly of a northern urban territory - preliminary results. <i>Atmospheric Pollution Research</i> , 2010, 1, 44-49.	3.8	14
7	Legibility of Textbooks: A Literature Review. <i>Procedia, Social and Behavioral Sciences</i> , 2015, 174, 1300-1308.	0.5	14
8	Review and possible development direction of the methods for modeling of soil pollutants spatial distribution. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	10
9	Diagnostics of snow-cover contamination with soluble and insoluble metal impurities. <i>Russian Journal of Nondestructive Testing</i> , 2006, 42, 630-636.	0.9	9
10	¹³⁷ Cs in puddle sediments as timescale tracer in urban environment. <i>Journal of Environmental Radioactivity</i> , 2015, 142, 9-13.	1.7	9
11	Training algorithms for artificial neural network in predicting of the content of chemical elements in the upper soil layer. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	9
12	The Effect of Splitting of Raw Data into Training and Test Subsets on the Accuracy of Predicting Spatial Distribution by a Multilayer Perceptron. <i>Mathematical Geosciences</i> , 2020, 52, 111-121.	2.4	8
13	Three-day forecasting of greenhouse gas CH ₄ in the atmosphere of the Arctic Belyy Island using discrete wavelet transform and artificial neural networks. <i>Neural Computing and Applications</i> , 2021, 33, 10311-10322.	5.6	8
14	SNOW POLLUTION REGRESSION MODEL FOR KARABASH CITY OF RUSSIA. , 2014, , .		7
15	Modeling of surface dust concentrations using neural networks and kriging. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	6
16	Time series forecasting of methane concentrations in the surface layer of atmospheric air in Arctic region. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
17	The extraction of the training subset for the spatial distribution modelling of the heavy metals in topsoil. <i>Catena</i> , 2021, 207, 105699.	5.0	6
18	Particulate matter size distribution in air surface layer of Middle Ural and Arctic territories. <i>Atmospheric Pollution Research</i> , 2019, 10, 1220-1226.	3.8	5

#	ARTICLE	IF	CITATIONS
19	Qualimetric Researches of Educational Resources: Standardizing of Light Conditions in the Light Booth. Procedia, Social and Behavioral Sciences, 2015, 174, 1285-1291.	0.5	4
20	A hybrid method for assessment of soil pollutants spatial distribution. AIP Conference Proceedings, 2017, , .	0.4	3
21	Comparison of artificial neural network, random forest and random perceptron forest for forecasting the spatial impurity distribution. AIP Conference Proceedings, 2018, , .	0.4	3
22	On the hybrid models of soil contaminants concentrations predicting in subarctic region. AIP Conference Proceedings, 2018, , .	0.4	3
23	Training algorithms for artificial neural networks for time series forecasting of greenhouse gas concentrations. AIP Conference Proceedings, 2019, , .	0.4	3
24	Prediction the dynamic of changes in the concentrations of main greenhouse gases by an artificial neural network type NARX. AIP Conference Proceedings, 2020, , .	0.4	3
25	Invariance of specific mass increment in the case of non-equilibrium growth. Chinese Physics B, 2015, 24, 090502.	1.4	2
26	High variation subarctic topsoil pollutant concentration prediction using neural network residual kriging. AIP Conference Proceedings, 2017, , .	0.4	2
27	Recognition of chromium distribution features in different urban soils by multilayer perceptron. AIP Conference Proceedings, 2018, , .	0.4	2
28	Multilayer perceptron, generalized regression neural network, and hybrid model in predicting the spatial distribution of impurity in the topsoil of urbanized area. AIP Conference Proceedings, 2018, , .	0.4	2
29	Artificial neural networks selection for soil chemical elements distribution prediction. AIP Conference Proceedings, 2018, , .	0.4	2
30	Forecasting of some greenhouse gases content trend in the air of the Russian Arctic region. Atmospheric Pollution Research, 2021, 12, 68-75.	3.8	2
31	A GENERALIZED MANAGEMENT PROGRAM OF ENVIRONMENTAL MONITORING STUDIES DURING GEOLOGICAL PROSPECTING. , 2016, , .		2
32	The forecast of the methane concentration changes for the different time periods on the Arctic island Bely. AIP Conference Proceedings, 2020, , .	0.4	2
33	On the use of non-Gaussian models for prediction of extreme pollution levels in environmental studies. AIP Conference Proceedings, 2015, , .	0.4	1
34	Modeling of surface dust concentration in snow cover at industrial area using neural networks and kriging. AIP Conference Proceedings, 2017, , .	0.4	1
35	Statistical analysis of the spatial distribution of impurities in the snow cover in the vicinity of copper mine in the Middle Ural of Russia. AIP Conference Proceedings, 2018, , .	0.4	1
36	Forecasting of spatial variable by the models based on artificial neural networks on an example of heavy metal content in topsoil. AIP Conference Proceedings, 2018, , .	0.4	1

#	ARTICLE	IF	CITATIONS
37	Psychophysical model of the signal detection theory with nine events. Basic provisions. AIP Conference Proceedings, 2018, , .	0.4	1
38	Partition Procedure of the Initial Data for the Models Based on Artificial Neural Networks. , 2019, , .		1
39	Statistical characteristics calculation of the natural dust size distribution in the air surface layer of Bely Island. AIP Conference Proceedings, 2019, , .	0.4	1
40	Improved algorithm for splitting raw data into training and test subsamples for MLP-based models. AIP Conference Proceedings, 2022, , .	0.4	1
41	Separating a weak periodic component from a nonstationary time series. Technical Physics Letters, 2003, 29, 732-735.	0.7	0
42	High School Paper Textbooks Usability: Leading and Satisfaction. Procedia, Social and Behavioral Sciences, 2013, 106, 1278-1291.	0.5	0
43	Topsoil pollution forecasting using artificial neural networks on the example of the abnormally distributed heavy metal at Russian subarctic. AIP Conference Proceedings, 2017, , .	0.4	0
44	Paediatric ischemic stroke: The relationship between the probability of disability in the outcome and thrombophilic genesâ€™ polymorphisms. Journal of the Neurological Sciences, 2017, 381, 111.	0.6	0
45	Analysis of time series of greenhouse gas concentrations in the Russian Arctic using the artificial neural networks. AIP Conference Proceedings, 2018, , .	0.4	0
46	Heavy Metal Contamination Assessment in Near Surface Soils: A Case Study from Subarctic Region of Russia. IOP Conference Series: Earth and Environmental Science, 2018, 167, 012023.	0.3	0
47	Comparison of different models for the chromium distribution forecasting in topsoil in subarctic Novy Urengoy city. AIP Conference Proceedings, 2018, , .	0.4	0
48	Method of selecting spatially distributed information for constructing training set of artificial neural networks. AIP Conference Proceedings, 2019, , .	0.4	0
49	Ternary information in psychophysical research. Receiving and primary processing. AIP Conference Proceedings, 2019, , .	0.4	0
50	About data separation for the artificial neural network training to predict the spatial distribution of the chemical element in the soil. AIP Conference Proceedings, 2019, , .	0.4	0
51	Sleep assessment in infants and toddlers after arterial ischemic stroke. Journal of the Neurological Sciences, 2019, 405, 40.	0.6	0
52	Descriptive statistics of air particulate matter size distribution in industrial city. AIP Conference Proceedings, 2019, , .	0.4	0
53	Using autoregressive neural network with external input for calculation of expected carbon dioxide surface concentration for different time intervals. AIP Conference Proceedings, 2019, , .	0.4	0
54	Demyelinating diseases in childhood: Associations with monophasic course. Journal of the Neurological Sciences, 2019, 405, 231-232.	0.6	0

#	ARTICLE	IF	CITATIONS
55	The relationships between carrying thrombophilic genes™ polymorphisms and forecast of pediatric arterial ischemic strokes: the result of investigation using logistic regression. Journal of the Neurological Sciences, 2019, 405, 1.	0.6	0
56	The influence of combinations of genetic polymorphisms on the probability of disability after arterial ischemic stroke in childhood. Journal of the Neurological Sciences, 2019, 405, 1-2.	0.6	0
57	Relationships between temperament and cognitive development of premature children 14 months-old. Journal of the Neurological Sciences, 2019, 405, 35-36.	0.6	0
58	Generalization of the classical signal detection theory for the less equal more task. Mathematical Methods in the Applied Sciences, 2020, 43, 7834-7840.	2.3	0
59	ARTIFICIAL NEURAL NETWORK AND KRIGING INTERPOLATION FOR THE CHEMICAL ELEMENTS CONTENTS IN THE SURFACE LAYER OF SOIL ON A BACKGROUND AREA. , 2011, , .		0
60	ANOMALIES OF CHROMIUM SURFACE DISTRIBUTION IN URBAN SOILS FROM SUBARCTIC REGION OF RUSSIA. , 2011, , .		0
61	Conjoint approach of the "residual" prediction and the nonlinear autoregressive neural network increases the forecast precision of the base model. AIP Conference Proceedings, 2020, , .	0.4	0
62	Studying recognition dynamics of monochrome symbolic images by a rapid serial visual presentation method. AIP Conference Proceedings, 2020, , .	0.4	0
63	The pattern of some greenhouse gases content in the air of Belyy Island in the Russian Arctic region. AIP Conference Proceedings, 2022, , .	0.4	0
64	Comparing the types of artificial neural networks to predict the carbon dioxide concentration changes. AIP Conference Proceedings, 2022, , .	0.4	0
65	Short-term forecast the dynamics of changes in the surface concentration of methane using a non-linear autoregressive neural network with external input and vector autoregression model. AIP Conference Proceedings, 2022, , .	0.4	0
66	Counter-prediction method of the spatial series on the example of the dust content in the snow cover. Geoinformatika, 2022, , 32-39.	0.3	0
67	Anamnestic, clinical and laboratory features of the acute period of ischemic stroke in young patients. Nevrologiya, Neiropsikhiatriya, Psikhosomatika, 2022, 14, 12-18.	1.2	0
68	Application of the permutation method to the assessment of predictive ability of the models of spatial distribution of copper and iron concentrations in the topsoil. Geoinformatika, 2022, , 42-53.	0.3	0