Elena Moltchanova

List of Publications by Year
in descending order

88 papers	2,400 citations	257450 24 h-index	223800 46 g-index
90 all docs	90 docs citations	90 times ranked	4137 citing authors

#	Article	IF	Citations
1	Mapping global cropland and field size. Global Change Biology, 2015, 21, 1980-1992.	9.5	404
2	Comparing the Similarity of Responses Received from Studies in Amazonâ€™s Mechanical Turk to Studies Conducted Online and with Direct Recruitment. PLoS ONE, 2015, 10, e0121595.	2.5	228
3	Uncertainty in soil data can outweigh climate impact signals in global crop yield simulations. Nature Communications, 2016, 7, 11872.	12.8	179
4	Estimating the global distribution of field size using crowdsourcing. Global Change Biology, 2019, 25, 174-186.	9.5	108
5	Development of a global hybrid forest mask through the synergy of remote sensing, crowdsourcing and FAO statistics. Remote Sensing of Environment, 2015, 162, 208-220.	11.0	97
6	GWAS on longitudinal growth traits reveals different genetic factors influencing infant, child, and adult BMI. Science Advances, 2019, 5, eaaw3095.	10.3	86
7	Spatial distribution of arable and abandoned land across former Soviet Union countries. Scientific Data, 2018, 5, 180056.	5.3	81
8	Evaluating statistical model performance in water quality prediction. Journal of Environmental Management, 2018, 206, 910-919.	7.8	78
9	Effect of measurement error on exponentially weighted moving average control charts under ranked set sampling schemes. Journal of Statistical Computation and Simulation, 2015, 85, 1224-1246.	1.2	53
10	Improved Estimates of Biomass Expansion Factors for Russian Forests. Forests, 2018, 9, 312.	2.1	46
11	Influence of soil bulk density and matric potential on microbial dynamics, inorganic N transformations, N2O and N2 fluxes following urea deposition. Soil Biology and Biochemistry, 2013, 65, 1-11.	8.8	41
12	Spatial analysis of suicide mortality in QuÃ©bec: Spatial clustering and area factor correlates. Psychiatry Research, 2014, 220, 20-30.	3.3	40
13	Calcium:Magnesium Ratio in Local Groundwater and Incidence of Acute Myocardial Infarction among Males in Rural Finland. Environmental Health Perspectives, 2006, 114, 730-734.	6.0	39
14	Blunted hypothalamicâ€pituitaryâ€adrenal axis and insulin response to psychosocial stress in young adults born preterm at very low birth weight. Clinical Endocrinology, 2014, 80, 101-106.	2.4	38
15	Russian forest sequesters substantially more carbon than previously reported. Scientific Reports, 2021, 11, 12825.	3.3	38
16	Phormidium autumnale Growth and Anatoxin-a Production under Iron and Copper Stress. Toxins, 2013, 5, 2504-2521.	3.4	36
17	Comparison of Data Fusion Methods Using Crowdsourced Data in Creating a Hybrid Forest Cover Map. Remote Sensing, 2016, 8, 261.	4.0	35
18	Partial ranked set sampling design. Environmetrics, 2013, 24, 201-207.	1.4	31

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19	Stop! That is close enough. How body postures influence human-robot proximity. , 2016, , .		31
20	New Synthetic EWMA and Synthetic CUSUM Control Charts for Monitoring the Process Mean. Quality and Reliability Engineering International, 2016, 32, 269-290.	2.3	30
21	Soil cadmium mobilisation by dissolved organic matter from soil amendments. Chemosphere, 2021, 271, 129536.	8.2	30
22	Improved Fast Initial Response Features for Exponentially Weighted Moving Average and Cumulative Sum Control Charts. Quality and Reliability Engineering International, 2014, 30, 697-710.	2.3	28
23	Paired double-ranked set sampling. Communications in Statistics - Theory and Methods, 2016, 45, 2873-2889.	1.0	28
24	Modeling climate change and biophysical impacts of crop production in the Austrian Marchfeld Region. Climatic Change, 2012, 111, 641-664.	3.6	27
25	Improved Exponentially Weighted Moving Average Control Charts for Monitoring Process Mean and Dispersion. Quality and Reliability Engineering International, 2015, 31, 217-237.	2.3	27
26	Mixed ranked set sampling design. Journal of Applied Statistics, 2014, 41, 2141-2156.	1.3	26
27	The association between salt intake and adult systolic blood pressure is modified by birth weight. American Journal of Clinical Nutrition, 2011, 93, 422-426.	4.7	25
28	A New Maximum Exponentially Weighted Moving Average Control Chart for Monitoring Process Mean and Dispersion. Quality and Reliability Engineering International, 2015, 31, 1587-1610.	2.3	25
29	Varied L Ranked Set Sampling Scheme. Journal of Statistical Theory and Practice, 2015, 9, 741-767.	0.5	24
30	Systematic overestimation of Salicaceae seed survival using radicle emergence in response to drying and storage: implications for ex situ seed banking. Acta Physiologiae Plantarum, 2013, 35, 3015-3025.	2.1	23
31	The Interplay of Habitat and Seed Type on Scatterhoarding Behavior in a Fragmented Afromontane Forest Landscape. Biotropica, 2014, 46, 264-267.	1.6	22
32	Estimating global economic well-being with unlit settlements. Nature Communications, 2022, 13, 2459.	12.8	22
33	Hybrid ranked set sampling scheme. Journal of Statistical Computation and Simulation, 2016, 86, 1-28.	1.2	18
34	New Exponentially Weighted Moving Average Control Charts for Monitoring Process Dispersion. Quality and Reliability Engineering International, 2014, 30, 1311-1332.	2.3	17
35	An Improved Maximum Exponentially Weighted Moving Average Control Chart for Monitoring Process Mean and Variability. Quality and Reliability Engineering International, 2015, 31, 265-290.	2.3	17
36	Valuing Weather Observation Systems For Forest Fire Management. IEEE Systems Journal, 2008, 2, 349-357.	4.6	16

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37	New Synthetic Control Charts for Monitoring Process Mean and Process Dispersion. Quality and Reliability Engineering International, 2015, 31, 1305-1325.	2.3	16
38	Birth-weight and resting metabolic rate in adulthood â€" sex-specific differences. Annals of Medicine, 2012, 44, 296-303.	3.8	14
39	A New Cumulative Sum Quality Control Scheme for Monitoring the Process Mean. Quality and Reliability Engineering International, 2014, 30, 1165-1177.	2.3	14
40	Introduction of mammalian seed predators and the loss of an endemic flightless bird impair seed dispersal of the New Zealand tree Elaeocarpus dentatus. Ecology and Evolution, 2018, 8, 5992-6004.	1.9	14
41	Forest disturbance and seasonal food availability influence a conditional seed dispersal mutualism. Biotropica, 2018, 50, 750-757.	1.6	13
42	Geographical variation of medicated parkinsonism in Finland during 1995 to 2000. Movement Disorders, 2008, 23, 1024-1031.	3.9	12
43	A New Exponentially Weighted Moving Average Control Chart for Monitoring the Process Mean. Quality and Reliability Engineering International, 2015, 31, 1623-1640.	2.3	12
44	Perinatal risk factors in young adult-onset type 1 and type 2 diabetes â€" a population-based case-control study. Acta Obstetricia Et Gynecologica Scandinavica, 2009, 88, 468-474.	2.8	11
45	Seasonality and ambient temperature at time of conception in term-born individuals â€" influences on cardiovascular disease and obesity in adult life. International Journal of Circumpolar Health, 2013, 72, 21466.	1.2	11
46	Secondary removal of seeds dispersed by chimpanzees in a Nigerian montane forest. African Journal of Ecology, 2014, 52, 438-447.	0.9	11
47	A zero-inflated Poisson mixture model to analyse spread and abundance of the Western Corn Rootworm in Austria. Agricultural Systems, 2019, 174, 105-116.	6.1	11
48	A New Synthetic Exponentially Weighted Moving Average Control Chart for Monitoring Process Dispersion. Quality and Reliability Engineering International, 2016, 32, 241-256.	2.3	10
49	Change detection in noisy dynamic networks: a spectral embedding approach. Social Network Analysis and Mining, 2020, 10, 1.	2.8	10
50	Geographical variation in the incidence of acute myocardial infarction in eastern Finland â€" a Bayesian perspective. Annals of Medicine, 2003, 35, 43-50.	3.8	9
51	Ordered Double Ranked Set Samples and Applications to Inference. American Journal of Mathematical and Management Sciences, 2014, 33, 239-260.	0.9	9
52	The value of rapid damage assessment for efficient earthquake response. Safety Science, 2011, 49, 1164-1171.	4.9	8
53	Effective sample size estimation for a mechanical ventilation trial through Monte-Carlo simulation: Length of mechanical ventilation and Ventilator Free Days. Mathematical Biosciences, 2017, 284, 21-31.	1.9	8
54	Nesting Ecology of a Small Montane Population of the Nigerian/Cameroon Chimpanzee (Pan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	0.7	7

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55	Cryopreservation of Prunus padus seeds: emphasising the significance of Bayesian methods for data analysis. Canadian Journal of Forest Research, 2016, 46, 766-774.	1.7	7
56	Long seed dispersal distances by an inquisitive flightless rail (Gallirallus australis) are reduced by interaction with humans. Royal Society Open Science, 2019, 6, 190397.	2.4	7
57	LEGO Pictorial Scales for Assessing Affective Response. Lecture Notes in Computer Science, 2015, , 263-280.	1.3	7
58	Genetic random effects model for family data with longâ€term survivors: analysis of diabetic nephropathy in type 1 diabetes. Genetic Epidemiology, 2007, 31, 697-708.	1.3	6
59	Bayesian Spatiotemporal Analysis of Radiocarbon Dates from Eastern Fennoscandia. Radiocarbon, 2012, 54, 649-659.	1.8	6
60	The regional association of rising type 2 diabetes incidence with magnesium in drinking water among young adults. Environmental Research, 2012, 112, 126-128.	7.5	6
61	Comparison of three different statistical approaches (non-linear least-squares regression, survival) Tj ETQq1 1 0.784314 rgBT /Overloc germination. Seed Science Research, 2020, 30, 64-72.	1.7	6
62	How many people need to classify the same image? A method for optimizing volunteer contributions in binary geographical classifications. PLoS ONE, 2022, 17, e0267114.	2.5	6
63	Bayesian modeling of the evolution of male height in 18th century Finland from incomplete data. Economics and Human Biology, 2013, 11, 405-415.	1.7	5
64	Effect of the addition of bird repellents to aerially applied 1080 baits on rat and possum abundance. , 2016, 40, 49-59.		5
65	A New Exponentially Weighted Moving Average Control Chart for Monitoring Process Dispersion. Quality and Reliability Engineering International, 2015, 31, 1337-1357.	2.3	4
66	Quantifying perennial ryegrass (Lolium perenne L.) and white clover (Trifolium repens L.) seed germination responses to water potential and temperature with a hydrothermal time model. New Zealand Journal of Agricultural Research, 2020, 63, 379-394.	1.6	4
67	Urinary neopterin and total neopterin measurements allow monitoring of oxidative stress and inflammation levels of knee and hip arthroplasty patients. PLoS ONE, 2021, 16, e0256072.	2.5	4
68	Oxidative stress and immune cell activation quantification in sepsis and non-sepsis critical care patients by neopterin/7,8-dihydroneopterin analysis. Pteridines, 2020, 31, 68-82.	0.5	4
69	Improved best linear unbiased estimators for the simple linear regression model using double ranked set sampling schemes. Communications in Statistics - Theory and Methods, 2016, 45, 3541-3561.	1.0	3
70	LEGO products have become more complex. PLoS ONE, 2018, 13, e0190651.	2.5	3
71	Expressing uncertainty in Human-Robot interaction. PLoS ONE, 2020, 15, e0235361.	2.5	3
72	Have LEGO Products Become More Violent?. PLoS ONE, 2016, 11, e0155401.	2.5	3

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73	Best linear unbiased and invariant estimation in location-scale families based on double-ranked set sampling. Communications in Statistics - Theory and Methods, 2016, 45, 25-48.	1.0	2
74	Individual differences are more important than the emotional category for the perception of emotional expressions. Interaction Studies, 2017, 18, 161-173.	0.6	2
75	On correlation analysis of manyâ€toâ€many observations: an alternative to Pearson's correlation coefficient and its application to an ecotoxicological study. Australian and New Zealand Journal of Statistics, 2017, 59, 371-387.	0.9	2
76	Density dependence and spatial heterogeneity limit the population growth rate of invasive pines at the landscape scale. Ecography, 2021, 44, 1463-1473.	4.5	2
77	Evaluating sources of variability in inflorescence number, flower number and the progression of flowering in Sauvignon blanc using a Bayesian modelling framework. Oeno One, 2021, 56, 1-15.	1.4	2
78	Optimizing Crowdsourced Land Use and Land Cover Data Collection: A Two-Stage Approach. Land, 2022, 11, 958.	2.9	2
79	Application of Balanced Acceptance Sampling to an Intertidal Survey. Journal of Landscape Ecology(Czech Republic), 2017, 10, 96-107.	0.9	1
80	Bayesian real options control chart. Quality and Reliability Engineering International, 2017, 33, 2205-2213.	2.3	1
81	Ecological Factors Preventing Restoration of Degraded Short Tussock Landscapes in New Zealandâ€™s Dryland Zone. Open Agriculture, 2017, 2, 442-452.	1.7	1
82	Real options economic control chart for binomial and normal processes. Quality and Reliability Engineering International, 2019, 35, 385-391.	2.3	1
83	Modelling the emergence dynamics of the western corn rootworm beetle (Diabrotica virgifera) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	1
84	Spatio-temporal analysis of differences in campylobacteriosis incidence between urban and rural areas in the Southern District Health Board, New Zealand. Spatial and Spatio-temporal Epidemiology, 2019, 31, 100304.	1.7	0
85	Sample size estimation for achieving the desired uncertainty for estimates of tree fine root trait parameters. Trees - Structure and Function, 2021, 35, 347-356.	1.9	0
86	Comparing the performance of supervised classification methods on a multispecies fishery of post-larval galaxiids. New Zealand Journal of Marine and Freshwater Research, 0, , 1-12.	2.0	0
87	Using miniature plots to assess the effects of soils on the productivity of tropical plantation forests: a case study from Sabah, Malaysia. New Forests, 2022, 53, 353-369.	1.7	0
88	Mg and Ca in groundwater and the incidence of acute coronary syndrome: Application of a Bayesian spatial method in medical geology. Hydrogeology, 2014, , 153-162.	0.1	0