

Ana M Tarquis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

2,349
citations

25
h-index

41
g-index

215
ext. papers

2,695
ext. citations

4.2
avg, IF

5.11
L-index

#	Paper	IF	Citations
152	Assessment of Drought Indexes on Different Time Scales: A Case in Semiarid Mediterranean Grasslands. <i>Remote Sensing</i> , 2022 , 14, 565	5	2
151	Global and local spreading rate estimation in forced plumes. <i>European Journal of Mechanics, B/Fluids</i> , 2022 , 92, 203-214	2.4	0
150	Enhancing LULC scenarios impact assessment in hydrological dynamics using participatory mapping protocols in semiarid regions. <i>Science of the Total Environment</i> , 2022 , 803, 149906	10.2	3
149	Recurrence plots for quantifying the vegetation indices dynamics in a semi-arid grassland. <i>Geoderma</i> , 2022 , 406, 115488	6.7	1
148	Complexity of the Vegetation-Climate System Through Data Analysis. <i>Studies in Computational Intelligence</i> , 2021 , 609-619	0.8	1
147	Towards Understanding Complex Interactions of Normalized Difference Vegetation Index Measurements Network and Precipitation Gauges of Cereal Growth System. <i>Studies in Computational Intelligence</i> , 2021 , 620-626	0.8	
146	Phenology as accuracy metrics for vegetation index forecasting over Tunisian forest and cereal cover types. <i>International Journal of Remote Sensing</i> , 2021 , 42, 4644-4671	3.1	2
145	The Vegetation-Climate System Complexity through Recurrence Analysis. <i>Entropy</i> , 2021 , 23,	2.8	3
144	Generalized Structure Functions and Multifractal Detrended Fluctuation Analysis Applied to Vegetation Index Time Series: An Arid Rangeland Study. <i>Entropy</i> , 2021 , 23,	2.8	3
143	Review article: Risk management framework of environmental hazards and extremes in Mediterranean ecosystems. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 1935-1954	3.9	2
142	An Analytical Approach to Assess the Influence of Expert Panel Answer on Decision Making: The Case of Sustainable Land Use in Ribadavia Banda Norte, Salta (Argentina). <i>Sustainability</i> , 2021 , 13, 6705	3.6	1
141	Local Fractal Connections to Characterize the Spatial Processes of Deforestation in the Ecuadorian Amazon. <i>Entropy</i> , 2021 , 23,	2.8	2
140	Linking deforestation patterns to soil types: A multifractal approach. <i>European Journal of Soil Science</i> , 2021 , 72, 635-655	3.4	2
139	Multiscaling analysis of Soil Water Content during irrigation events. Comparison between surface and subsurface drip irrigation. <i>Geoderma</i> , 2021 , 382, 114777	6.7	4
138	Multiscaling NDVI Series Analysis of Rainfed Cereal in Central Spain. <i>Remote Sensing</i> , 2021 , 13, 568	5	3
137	Normalized Difference Vegetation Index Temporal Responses to Temperature and Precipitation in Arid Rangelands. <i>Remote Sensing</i> , 2021 , 13, 840	5	7
136	A new multifractal-based grain size distribution model. <i>Geoderma</i> , 2021 , 404, 115294	6.7	2

135	Preface: Remote sensing, modelling-based hazard and risk assessment, and management of agro-forested ecosystems. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 3873-3877	3.9	0
134	MULTIFRAC: An ImageJ plugin for multiscale characterization of 2D and 3D stack images. <i>SoftwareX</i> , 2020 , 12, 100574	2.7	3
133	Examining the sustainability and development challenge in agricultural-forest frontiers of the Amazon Basin through the eyes of locals. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 797-813	3.9	2
132	Detection and quantification of pore, solid and gravel spaces in CT images of a 3D soil sample. <i>Applied Mathematical Modelling</i> , 2020 , 85, 360-377	4.5	3
131	Remote sensing in an index-based insurance design for hedging economic impacts on rice cultivation. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 345-362	3.9	4
130	Self-organizing map of soil properties in the context of hydrological modeling. <i>Applied Mathematical Modelling</i> , 2020 , 88, 175-189	4.5	5
129	Scaling properties of binary and greyscale images in the context of X-ray soil tomography. <i>Geoderma</i> , 2020 , 365, 114205	6.7	8
128	Application of generalized Hurst dimension rose plot in terrain altitude analysis. <i>Applied Mathematical Modelling</i> , 2020 , 81, 624-640	4.5	2
127	Automatic identification of the area covered by acorn trees in the dehesa (pastureland) Extremadura of Spain. <i>Computers and Electronics in Agriculture</i> , 2020 , 172, 105289	6.5	1
126	Evaluation of a combined drought indicator and its potential for agricultural drought prediction in southern Spain. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 21-33	3.9	16
125	Transitioning European Protein-Rich Food Consumption and Production towards More Sustainable Patterns Strategies and Policy Suggestions. <i>Sustainability</i> , 2020 , 12, 1962	3.6	9
124	Estimation of evapotranspiration by the Food and Agricultural Organization of the United Nations (FAO) Penman-Monteith temperature (PMT) and Hargreaves-Samani (HS) models under temporal and spatial criteria: a case study in Duero basin (Spain). <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 859-875	3.9	15
123	Statistical analysis for satellite-index-based insurance to define damaged pasture thresholds. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1685-1702	3.9	6
122	Following temporal patterns assessment in rainfed agricultural areas based on NDVI time series autocorrelation values. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019 , 82, 101890	7.3	5
121	Pore detection in 3-D CT soil samples through an improved sub-segmentation method. <i>European Journal of Soil Science</i> , 2019 , 70, 66-82	3.4	3
120	Estimation of evapotranspiration by FAO Penman-Monteith Temperature and Hargreaves-Samani models under temporal and spatial criteria. A case study in Duero Basin (Spain) 2019 ,		1
119	Assessing soil water content variability through active heat distributed fiber optic temperature sensing. <i>Agricultural Water Management</i> , 2019 , 212, 193-202	5.9	8
118	An accurate evaluation of water availability in sub-arid Mediterranean watersheds through SWAT: Cega-Eresma-Adaja. <i>Agricultural Water Management</i> , 2019 , 212, 211-225	5.9	29

117	Agro-ecological variability effects on an index-based insurance design for extreme events. <i>Geoderma</i> , 2019 , 337, 1341-1350	6.7	5
116	Scaling Characteristics of Soil Structure. <i>Progress in Soil Science</i> , 2018 , 155-193		5
115	Multiscaling properties of soil images. <i>Biosystems Engineering</i> , 2018 , 168, 133-141	4.8	10
114	Homogenisation of a soil properties map by principal component analysis to define index agricultural insurance policies. <i>Geoderma</i> , 2018 , 311, 149-158	6.7	9
113	Multifractal analysis of 3D images of tillage soil. <i>Geoderma</i> , 2018 , 311, 167-174	6.7	22
112	Evaluation of extreme temperature events in northern Spain based on process control charts. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 1323-1335	3	1
111	Local 3D segmentation of soil pore space based on fractal properties using singularity maps. <i>Geoderma</i> , 2018 , 311, 175-188	6.7	6
110	Combining global and local scaling methods to detect soil pore space. <i>Journal of Geochemical Exploration</i> , 2018 , 189, 72-84	3.8	4
109	Detrended fluctuation analysis for spatial characterisation of landscapes. <i>Biosystems Engineering</i> , 2018 , 168, 14-25	4.8	4
108	Singularity maps applied to a vegetation index. <i>Biosystems Engineering</i> , 2018 , 168, 42-53	4.8	4
107	Using geographical information system to generate a drought risk map for rice cultivation: Case study in Babahoyo canton (Ecuador). <i>Biosystems Engineering</i> , 2018 , 168, 26-41	4.8	14
106	Soil resources and element stocks in drylands to face global issues. <i>Scientific Reports</i> , 2018 , 8, 13788	4.9	69
105	Spatial and radiometric characterization of multi-spectrum satellite images through multi-fractal analysis. <i>Nonlinear Processes in Geophysics</i> , 2017 , 24, 141-155	2.9	8
104	New segmentation method based on fractal properties using singularity maps. <i>Geoderma</i> , 2017 , 287, 40-53	6.7	12
103	Multifractal analysis in soil properties: Spatial signal versus mass distribution. <i>Geoderma</i> , 2017 , 287, 54-66.7		17
102	Multiscaling properties on sequences of turbulent plumes images. <i>Chaos, Solitons and Fractals</i> , 2017 , 105, 128-136	9.3	4
101	Scale and space dependencies of soil nitrogen variability. <i>Nonlinear Processes in Geophysics</i> , 2017 , 24, 77-87	2.9	5
100	Droughts 2017 , 177-210		4

99	Discrete multi-criteria methods for lands use and conservation planning on La Colacha in Arroyos Menores (R� Cuarto, Province of C�doba, Argentina). <i>Annals of Operations Research</i> , 2016 , 245, 315-336	3.2	3
98	Foreword to Sustainable Soil Management and Organic Farming. <i>Soil Research</i> , 2016 , 54, i	1.8	1
97	Soil water balance correction due to light rainfall, dew and fog in Ebro river basin (Spain). <i>Agricultural Water Management</i> , 2016 , 170, 61-67	5.9	6
96	Effects of tillage on variability in soil penetration resistance in an olive orchard. <i>Soil Research</i> , 2016 , 54, 134	1.8	7
95	Agronomic concepts in water footprint assessment: A case of study in a fertirrigated melon crop under semiarid conditions. <i>Agricultural Water Management</i> , 2016 , 170, 81-90	5.9	21
94	Multifractal and Levy-stable statistics of soil surface moisture distribution derived from 2D image analysis. <i>Applied Mathematical Modelling</i> , 2016 , 40, 2384-2395	4.5	11
93	Agricultural activity shapes the communication and migration patterns in Senegal. <i>Chaos</i> , 2016 , 26, 065305	3.5	4
92	Business Intelligence: New products development and supply chain systems in a SoSE perspective 2016 ,		2
91	Spatial Modeling of Rainfall Patterns over the Ebro River Basin Using Multifractality and Non-Parametric Statistical Techniques. <i>Water (Switzerland)</i> , 2015 , 7, 6204-6227	3	6
90	Experimental Study of Heat Transport in Fractured Network. <i>Energy Procedia</i> , 2015 , 76, 273-281	2.3	7
89	Effect of increasing temperatures on cooling systems. A case of study: European greenhouse sector. <i>Climatic Change</i> , 2014 , 123, 175-187	4.5	3
88	Wind pumps for irrigating greenhouse crops: Comparison in different socio-economical frameworks. <i>Biosystems Engineering</i> , 2014 , 128, 21-28	4.8	12
87	Engineering education on geosciences in a changing world. <i>European Journal of Engineering Education</i> , 2014 , 39, 463-466	1.5	2
86	Identification of pore spaces in 3D CT soil images using PFCM partitional clustering. <i>Geoderma</i> , 2014 , 217-218, 90-101	6.7	23
85	Risk of leaching in soils amended by compost and digestate from municipal solid waste. <i>Scientific World Journal, The</i> , 2014 , 2014, 565174	2.2	12
84	Spatial characterization of landscapes through multifractal analysis of DEM. <i>Scientific World Journal, The</i> , 2014 , 2014, 563038	2.2	4
83	Fractal analysis of laplacian pyramidal filters applied to segmentation of soil images. <i>Scientific World Journal, The</i> , 2014 , 2014, 212897	2.2	0
82	Factors driving the carbon mineralization priming effect in a sandy loam soil amended with different types of biochar. <i>Solid Earth</i> , 2014 , 5, 585-594	3.3	65

81	On the entrainment coefficient in a forced plume: quantitative effects of source parameters. <i>Nonlinear Processes in Geophysics</i> , 2014 , 21, 269-278	2.9	18
80	Mathematical decision theory applied to land capability: a case study in the community of madrid. <i>Journal of Environmental Quality</i> , 2014 , 43, 763-74	3.4	
79	Application of multifractal analysis to the study of SAR features and oil spills on the ocean surface. <i>Nonlinear Processes in Geophysics</i> , 2014 , 21, 439-450	2.9	16
78	Univariate and multivariate analysis on processing tomato quality under different mulches. <i>Scientia Agricola</i> , 2014 , 71, 114-119	2.5	8
77	Risk identification of agricultural drought for sustainable Agroecosystems. <i>Natural Hazards and Earth System Sciences</i> , 2014 , 14, 2435-2448	3.9	38
76	Thermal time model of <i>Solanum sarrachoides</i> germination. <i>Seed Science Research</i> , 2014 , 24, 321-330	1.3	2
75	Preface: Environmental benefits of biochar. <i>Solid Earth</i> , 2014 , 5, 1301-1303	3.3	11
74	Application of Decision Theory methods for a soil classification in the Community of Madrid (Spain). <i>Annals of Operations Research</i> , 2014 , 219, 203-229	3.2	
73	Impact of nitrogen uptake on field water balance in fertirrigated melon. <i>Agricultural Water Management</i> , 2013 , 120, 56-63	5.9	8
72	Soil and irrigation sustainability practices. <i>Agricultural Water Management</i> , 2013 , 120, 1-4	5.9	25
71	The use of wind pumps for greenhouse microirrigation: A case study for tomato in Cuba. <i>Agricultural Water Management</i> , 2013 , 120, 107-114	5.9	5
70	Effect of scanning and image reconstruction settings in X-ray computed microtomography on quality and segmentation of 3D soil images. <i>Geoderma</i> , 2013 , 207-208, 154-165	6.7	58
69	Influence of pyrolysis temperature on composted sewage sludge biochar priming effect in a loamy soil. <i>Chemosphere</i> , 2013 , 93, 668-76	8.4	73
68	Nitrogen fertigation: An integrated agronomic and environmental study. <i>Agricultural Water Management</i> , 2013 , 120, 46-55	5.9	23
67	Quantifying soil complexity using network models of soil porous structure. <i>Nonlinear Processes in Geophysics</i> , 2013 , 20, 41-45	2.9	6
66	Preface "Weather-related hazards and risks in agriculture". <i>Natural Hazards and Earth System Sciences</i> , 2013 , 13, 2599-2603	3.9	10
65	Mulch materials in processing tomato: a multivariate approach. <i>Scientia Agricola</i> , 2013 , 70, 250-256	2.5	7
64	SIMLIDAR [Simulation of LIDAR performance in artificially simulated orchards. <i>Biosystems Engineering</i> , 2012 , 111, 72-82	4.8	15

63	Spatial variability patterns of some Vertisol properties at a field scale using standardized data. <i>Soil and Tillage Research</i> , 2012 , 120, 76-84	6.5	21
62	Fractal scaling of apparent soil moisture estimated from vertical planes of Vertisol pit images. <i>Journal of Hydrology</i> , 2012 , 452-453, 205-212	6	8
61	Change of extreme rainfall indexes at Ebro River Basin. <i>Natural Hazards and Earth System Sciences</i> , 2012 , 12, 2127-2137	3.9	13
60	Community Structure in a Soil Porous System. <i>Soil Science</i> , 2012 , 177, 81-87	0.9	2
59	Variation in Spectral and Mass Dimension on Three-Dimensional Soil Image Processing. <i>Soil Science</i> , 2012 , 177, 88-97	0.9	4
58	Nitrogen uptake dynamics, yield and quality as influenced by nitrogen fertilization in Biel de sapo melon. <i>Spanish Journal of Agricultural Research</i> , 2012 , 10, 756	1.1	11
57	Determination of the uptake and translocation of nitrogen applied at different growth stages of a melon crop (Cucumis melo L.) using ¹⁵ N isotope. <i>Scientia Horticulturae</i> , 2011 , 130, 541-550	4.1	3
56	Detection of pore space in CT soil images using artificial neural networks. <i>Biogeosciences</i> , 2011 , 8, 279-286	4.6	30
55	<i>Preface</i> "Nonlinear and scaling processes in Hydrology and Soil Science". <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 899-902	2.9	3
54	Preface "Modeling soil system: complexity under your feet". <i>Biogeosciences</i> , 2011 , 8, 3139-3146	4.6	6
53	Growth dynamics and yield of melon as influenced by nitrogen fertilizer. <i>Scientia Agricola</i> , 2011 , 68, 191-199	3.9	10
52	Trends in climatic variables and future reference evapotranspiration in Duero Valley (Spain). <i>Natural Hazards and Earth System Sciences</i> , 2011 , 11, 1795-1805	3.9	44
51	Scaling analysis of water retention curves for unsaturated sandy loam soils by using fractal geometry. <i>European Journal of Soil Science</i> , 2010 , 61, 425-436	3.4	17
50	Shadow analysis of soil surface roughness compared to the chain set method and direct measurement of micro-relief. <i>Biogeosciences</i> , 2010 , 7, 2477-2487	4.6	14
49	Fractal Metrology for biogeosystems analysis. <i>Biogeosciences</i> , 2010 , 7, 3799-3815	4.6	3
48	An application of mathematical models to select the optimal alternative for an integral plan to desertification and erosion control (Chaco Area Salta Province Argentina). <i>Biogeosciences</i> , 2010 , 7, 3421-3433	4.6	15
47	Efficiency Indexes for Melon Crop Optimization. <i>Agronomy Journal</i> , 2010 , 102, 716-722	2.2	7
46	Quantifying a soil pore distribution from 3D images: Multifractal spectrum through wavelet approach. <i>Geoderma</i> , 2010 , 155, 203-210	6.7	17

45	Observer-dependent variability of the thresholding step in the quantitative analysis of soil images and X-ray microtomography data. <i>Geoderma</i> , 2010 , 157, 51-63	6.7	125
44	Multiscaling analysis of soil roughness variability. <i>Geoderma</i> , 2010 , 160, 22-30	6.7	15
43	Soil porous system as heterogeneous complex network. <i>Geoderma</i> , 2010 , 160, 13-21	6.7	21
42	A universal multifractal description applied to precipitation patterns of the Ebro River Basin, Spain. <i>Climate Research</i> , 2010 , 44, 17-25	1.6	17
41	Investigating the effect of previous treatments on wheat biomass over multiple spatial frequencies. <i>Biogeosciences</i> , 2010 , 7, 2739-2747	4.6	2
40	Pore network complexity and thresholding of 3D soil images. <i>Ecological Complexity</i> , 2009 , 6, 230-239	2.6	41
39	ACCURACY OF GENERALIZED DIMENSIONS ESTIMATED FROM GRAYSCALE IMAGES USING THE METHOD OF MOMENTS. <i>Fractals</i> , 2009 , 17, 351-363	3.2	11
38	Nonlinear Geophysics: Why We Need It. <i>Eos</i> , 2009 , 90, 455	1.5	16
37	Modeling Dynamic Fragmentation of Soil. <i>Vadose Zone Journal</i> , 2009 , 8, 197-201	2.7	10
36	Forecast of frost days based on monthly temperatures. <i>Spanish Journal of Agricultural Research</i> , 2009 , 7, 513	1.1	2
35	Single- and Multiscale Remote Sensing Techniques, Multifractals, and MODIS-Derived Vegetation and Soil Moisture. <i>Vadose Zone Journal</i> , 2008 , 7, 533-546	2.7	20
34	Multifractal Analysis of Soil Surface Roughness. <i>Vadose Zone Journal</i> , 2008 , 7, 512-520	2.7	38
33	Multiscaling of porous soils as heterogeneous complex networks. <i>Nonlinear Processes in Geophysics</i> , 2008 , 15, 893-902	2.9	17
32	Multiscale Entropy-based Analysis of Soil Transect Data. <i>Vadose Zone Journal</i> , 2008 , 7, 563-569	2.7	7
31	Multiscale Soil Investigations: Physical Concepts and Mathematical Techniques. <i>Vadose Zone Journal</i> , 2008 , 7, 453-455	2.7	13
30	Assessing soil surface roughness decay during simulated rainfall by multifractal analysis. <i>Nonlinear Processes in Geophysics</i> , 2008 , 15, 457-468	2.9	27
29	Introduction to Fractal Geometry, Fragmentation Processes and Multifractal Measures: Theory and Operational Aspects of their Application to Natural Systems 2008 , 11-67		2
28	Influence of thresholding in mass and entropy dimension of 3-D soil images. <i>Nonlinear Processes in Geophysics</i> , 2008 , 15, 881-891	2.9	24

27	Comparison of gliding box and box-counting methods in river network analysis. <i>Nonlinear Processes in Geophysics</i> , 2007 , 14, 603-613	2.9	37
26	Wavelet analysis in a structured clay soil using 2-D images. <i>Nonlinear Processes in Geophysics</i> , 2007 , 14, 425-434	2.9	12
25	Fractals as Pre-Processing Tool for Computational Intelligence Application 2007 , 193-212		1
24	MCDM Methods for Territorial Services Planning in an Andine Rural Area 2006 ,		4
23	Comparison of gliding box and box-counting methods in soil image analysis. <i>Geoderma</i> , 2006 , 134, 349-359		57
22	Mathematical structures of biological and pedological taxonomies. <i>Geoderma</i> , 2006 , 134, 360-372	6.7	19
21	A program for fractal and multifractal analysis of two-dimensional binary images: Computer algorithms versus mathematical theory. <i>Geoderma</i> , 2006 , 134, 284-294	6.7	41
20	Multifractal analysis of the pore- and solid-phases in binary two-dimensional images of natural porous structures. <i>Geoderma</i> , 2006 , 134, 318-326	6.7	73
19	Fractal and multifractal analysis of pore-scale images of soil. <i>Journal of Hydrology</i> , 2006 , 322, 211-219	6	117
18	Multiscaling analysis in a structured clay soil using 2D images. <i>Journal of Hydrology</i> , 2006 , 322, 236-246	6	39
17	Denitrification from an irrigated soil fertilized with pig slurry under Mediterranean conditions. <i>Biology and Fertility of Soils</i> , 2004 , 40, 93-100	6.1	14
16	Modeling the Oleic Acid Content in Sunflower Oil. <i>Agronomy Journal</i> , 2003 , 95, 329	2.2	26
15	Modeling the Oleic Acid Content in Sunflower Oil. <i>Agronomy Journal</i> , 2003 , 95, 329-334	2.2	5
14	Multifractal analysis of tori destruction in a molecular Hamiltonian system. <i>Physical Review E</i> , 2002 , 65, 016213	2.4	21
13	Integrated Fertilizer and Irrigation Management to Reduce Nitrate Leaching in Central Spain. <i>Journal of Environmental Quality</i> , 2000 , 29, 1539-1547	3.4	47
12	Faba bean canopy modelling with a parametric open L-system: a comparison with the Monsi and Saeki model. <i>Field Crops Research</i> , 1998 , 58, 1-13	5.5	9
11	Multifractal Analysis of Particle Size Distributions in Soil. <i>Environmental Science & Technology</i> , 1998 , 32, 1176-1182	10.3	78
10	The role of temperature in the seed germination of two species of the <i>Solanum nigrum</i> complex. <i>Journal of Experimental Botany</i> , 1997 , 48, 2087-2093	7	23

9	Index of Freezing Based on Time Series 1994 , 303-309		
8	A Population-based Threshold Model Describing the Relationship Between Germination Rates and Seed Deterioration. <i>Journal of Experimental Botany</i> , 1993 , 44, 1225-1234	7	29
7	Prehydration and Priming Treatments that Advance Germination also Increase the Rate of Deterioration of Lettuce Seeds. <i>Journal of Experimental Botany</i> , 1992 , 43, 307-317	7	108
6	The Effects of Priming and Ageing on Resistance to Deterioration of Tomato Seeds. <i>Journal of Experimental Botany</i> , 1989 , 40, 593-598	7	55
5	RFSIZE: A BASIC Program to Estimate DNA FRagment Size with a Digitizer. <i>Journal of Heredity</i> , 1989 , 80, 254-255	2.4	
4	Starting Point on the Development of Environmental Risk Management Competences: experiential learning. <i>WPOM: Working Papers on Operations Management</i> , 8, 109	0.9	1
3	Shadow analysis of soil surface roughness compared to the chain set method and direct measurement of micro-relief		3
2	Risk identification of agricultural drought for sustainable agroecosystems		2
1	Factors driving carbon mineralization priming effect in a soil amended with different types of biochar		3