Klaus Reichardt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	4D X-Ray Computed Tomography in Soil Science: an Overview and Future Perspectives at Mogno/Sirius. Brazilian Journal of Physics, 2022, 52, 1.	1.4	9
2	Examining the implications of spatial variability of saturated soil hydraulic conductivity on direct surface runoff hydrographs. Catena, 2021, 207, 105693.	5.0	4
3	Evaluating the tillage management direction effects on soil attributes by space series analysis (case) Tj ETQq1	1 0.784314 2.7	4 rg&T /Overlo
4	Amino Acids as Stress Reducers in Soybean Plant Growth Under Different Water-Deficit Conditions. Journal of Plant Growth Regulation, 2020, 39, 905-919.	5.1	26
5	Water Infiltration into the Soil. , 2020, , 217-240.		Ο
6	How Soil, Plant, and Atmosphere Properties Vary in Space and Time in the SPAS: An Approach to Geostatistics. , 2020, , 331-366.		0
7	How Plants Absorb Nutrients from the Soil. , 2020, , 313-330.		4
8	Biomass and potential energy yield of perennial woody energy crops under reduced planting spacing. Renewable Energy, 2020, 153, 1238-1250.	8.9	23
9	Identifying regionalized co-variate driving factors to assess spatial distributions of saturated soil hydraulic conductivity using multivariate and state-space analyses. Catena, 2020, 191, 104583.	5.0	16
10	The Soil as a Water Reservoir for Plants. , 2020, , 15-48.		1
11	Water Redistribution After Infiltration into the Soil. , 2020, , 241-257.		1
12	Dimensional Analysis, Scaling, and Fractals. , 2020, , 423-444.		0
13	The Equilibrium State of Water in the Systems. , 2020, , 81-132.		0
14	The Water Balance in Agricultural and Natural Systems. , 2020, , 289-312.		0
15	Spatial and Temporal Variability of SPAS Attributes: Analysis of Spatial and Temporal Series. , 2020, , 367-422.		0
16	Intercropping Simulation Using the SWAP Model: Development of a 2×1D Algorithm. Agriculture (Switzerland), 2019, 9, 126.	3.1	8
17	Straw Removal Effects on Soil Water Dynamics, Soil Temperature, and Sugarcane Yield in South-Central Brazil. Bioenergy Research, 2019, 12, 749-763.	3.9	32
18	Stochastic Estimation of Potential and Depleted Productivity of Soybean Grain and Oil. International Journal of Plant Production, 2019, 13, 103-116.	2.2	2

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19	Soybean Yield in Different Sowing Dates and Seeding Rates in a Subtropical Environment. International Journal of Plant Production, 2019, 13, 117-128.	2.2	9
20	Climate analysis for agricultural improvement of the Economic Community of West African States according to Kppen and Thornthwaite. African Journal of Agricultural Research Vol Pp, 2018, 13, 1198-1212.	0.5	6
21	Sowing Dates and Seeding Rates Affect Soybean Grain Composition. International Journal of Plant Production, 2018, 12, 181-189.	2.2	12
22	Seed and Foliar Application of Amino Acids Improve Variables of Nitrogen Metabolism and Productivity in Soybean Crop. Frontiers in Plant Science, 2018, 9, 396.	3.6	48
23	Environmental benefits of reducing N rates for coffee in the Cerrado. Soil and Tillage Research, 2017, 166, 76-83.	5.6	4
24	Foliar and Seed Application of Amino Acids Affects the Antioxidant Metabolism of the Soybean Crop. Frontiers in Plant Science, 2017, 8, 327.	3.6	119
25	Preliminary Studies to Characterize the Temporal Variation of Micronutrient Composition of the Above Ground Organs of Maize and Correlated Uptake Rates. Frontiers in Plant Science, 2017, 8, 1482.	3.6	4
26	Maize dry matter production and macronutrient extraction model as a new approach for fertilizer rate estimation. Anais Da Academia Brasileira De Ciencias, 2017, 89, 705-716.	0.8	10
27	The recent similarity hypotheses to describe water infiltration into homogeneous soils. Scientia Agricola, 2016, 73, 379-383.	1.2	1
28	Multivariate and geostatistical analyses to evaluate lowland soil levelling effects on physico-chemical properties. Soil and Tillage Research, 2016, 156, 63-73.	5.6	17
29	Transpiração e crescimento foliar de crisântemo em função da fração de água transpirável no substrato. Pesquisa Agropecuaria Brasileira, 2015, 50, 735-744.	0.9	5
30	Nitrogen Balance and Fertigation Use Efficiency in a Field Coffee Crop. Journal of Plant Nutrition, 2015, 38, 2055-2076.	1.9	9
31	Deep drainage modeling for a fertigated coffee plantation in the Brazilian savanna. Agricultural Water Management, 2015, 148, 130-140.	5.6	8
32	State-space approach to evaluate effects of land levelling on the spatial relationships of soil properties of a lowland area. Soil and Tillage Research, 2015, 145, 135-147.	5.6	27
33	Impacts of land leveling on lowland soil physical properties. Revista Brasileira De Ciencia Do Solo, 2014, 38, 315-326.	1.3	12
34	State-Space Approach to Understand Soil-Plant-Atmosphere Relationships. , 2014, , 91-129.		1
35	Revisiting Field Capacity (FC): variation of definition of FC and its estimation from pedotransfer functions. Revista Brasileira De Ciencia Do Solo, 2014, 38, 1750-1764.	1.3	16
36	Spatial variability of 7Be fallout for erosion evaluation. Radiation Physics and Chemistry, 2013, 83, 1-7.	2.8	14

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37	Chemical and biological attributes of a lowland soil affected by land leveling. Pesquisa Agropecuaria Brasileira, 2013, 48, 1489-1497.	0.9	10
38	Nitrate leaching through climatologic water balance in a fertigated coffee plantation. Revista Ceres, 2013, 60, 785-792.	0.4	3
39	Growing degree-days for the â€~Niagara Rosada' grapevine pruned in different seasons. International Journal of Biometeorology, 2012, 56, 823-830.	3.0	16
40	Nitrogen fertilizer (15N) leaching in a central pivot fertigated coffee crop. Revista Ceres, 2012, 59, 466-475.	0.4	16
41	Spatio-temporal variability behavior of land surface soil water content in shrub- and grass-land. Geoderma, 2011, 162, 260-272.	5.1	78
42	Method to estimate soil macroporosity and microporosity based on sand content and bulk density. Revista Brasileira De Ciencia Do Solo, 2011, 35, 447-459.	1.3	30
43	Scaling to generalize a single solution of Richards' equation for soil water redistribution. Scientia Agricola, 2011, 68, 582-591.	1.2	12
44	Soil profile internal drainage for a central pivot fertigated coffee crop. Revista Ceres, 2011, 58, 723-728.	0.4	7
45	Chemical migration during soil water retention curve evaluation. Anais Da Academia Brasileira De Ciencias, 2011, 83, 1097-1108.	0.8	9
46	Fertilizer nitrogen in fertigated coffee crop: Absorption changes in plant compartments over time. Field Crops Research, 2011, 124, 369-377.	5.1	34
47	Using a New Criterion to Identify Sites for Mean Soil Water Storage Evaluation. Soil Science Society of America Journal, 2010, 74, 762-773.	2.2	91
48	Twenty-five years of computed tomography in soil physics: A literature review of the Brazilian contribution. Soil and Tillage Research, 2010, 110, 197-210.	5.6	64
49	General procedure to initialize the cyclic soil water balance by the Thornthwaite and Mather method. Scientia Agricola, 2010, 67, 87-95.	1.2	25
50	Energy flow in castor bean (Ricinus communis L.) production systems. Scientia Agricola, 2010, 67, 737-742.	1.2	8
51	Toward sustainable soil and water resources use in China's highly erodible semi-arid loess plateau. Geoderma, 2010, 155, 93-100.	5.1	57
52	Watershed scale temporal stability of soil water content. Geoderma, 2010, 158, 181-198.	5.1	183
53	Pedotransfer functions related to spatial variability of water retention attributes for lowland soils. Revista Brasileira De Ciencia Do Solo, 2010, 34, 669-680.	1.3	15
54	Riparian forest potential to retain sediment and carbon evaluated by the 137Cs fallout and carbon isotopic ratio techniques. Anais Da Academia Brasileira De Ciencias, 2009, 81, 271-279.	0.8	9

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55	Pore system changes of damaged Brazilian oxisols and nitosols induced by wet-dry cycles as seen in 2-D micromorphologic image analysis. Anais Da Academia Brasileira De Ciencias, 2009, 81, 151-161.	0.8	17
56	Temporal changes of an alfalfa succession and related soil physical properties on the Loess Plateau, China. Pesquisa Agropecuaria Brasileira, 2009, 44, 189-196.	0.9	14
57	Evaluation of Pigeon Pea Lines for Biological Soil Decompaction. International Journal of Agronomy, 2009, 2009, 1-7.	1.2	3
58	Time stability of soil water storage measured by neutron probe and the effects of calibration procedures in a small watershed. Catena, 2009, 79, 72-82.	5.0	119
59	New Analytic Solution Related to the Richards, Philip, and Green–Ampt Equations for Infiltration. Vadose Zone Journal, 2009, 8, 127-135.	2.2	16
60	Soil water extraction by roots and Kc for the coffee crop. Revista Brasileira De Engenharia Agricola E Ambiental, 2009, 13, 257-261.	1.1	8
61	Soil porous system changes quantified by analyzing soil water retention curve modifications. Soil and Tillage Research, 2008, 100, 72-77.	5.6	44
62	Funil de haines modificado: curvas de retenção de solos próximos à saturação. Revista Brasileira De Ciencia Do Solo, 2008, 32, 2555-2562.	1.3	8
63	New Analytic Solution of Boltzmann Transform for Horizontal Water Infiltration into Sand. Vadose Zone Journal, 2008, 7, 1170-1177.	2.2	12
64	Fertilizer 15N balance in a coffee cropping system: a case study in Brazil. Revista Brasileira De Ciencia Do Solo, 2008, 32, 1459-1469.	1.3	17
65	Soil water content temporal-spatial variability of the surface layer of a Loess Plateau hillside in China. Scientia Agricola, 2008, 65, 277-289.	1.2	52
66	Spatial variability of soil hydraulic properties on a steep slope in the loess plateau of China. Scientia Agricola, 2008, 65, 268-276.	1.2	48
67	Volatilization of Ammonia Derived from Fertilizer and Its Reabsorption by Coffee Plants. Communications in Soil Science and Plant Analysis, 2007, 38, 1741-1751.	1.4	24
68	A software to calculate soil hydraulic conductivity in internal drainage experiments (SHC, Version) Tj ETQq0 0 0 r	gBT /Overl 1.3	ock 10 Tf 50
69	Assessment of soil structure repair due to wetting and drying cycles through 2D tomographic image analysis. Soil and Tillage Research, 2007, 94, 537-545.	5.6	51
70	On the use of soil hydraulic conductivity functions in the field. Soil and Tillage Research, 2007, 93, 162-170.	5.6	11
71	Application of Î ³ -ray computed tomography to evaluate the radius of influence of soil solution extractors and tensiometers. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 969-974.	1.4	8
72	Comparison between climatological and field water balances for a coffee crop. Scientia Agricola, 2007, 64, 215-220.	1.2	11

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73	Growth, development, and fertilizer-15N recovery by the coffee plant. Scientia Agricola, 2007, 64, 541-547.	1.2	19
74	Micro-morphological analysis of the effect of sampling by the volumetric ring method on soil structure. Progress in Agricultural Engineering Sciences, 2007, 3, 1-19.	0.3	0
75	Variability of water balance components in a coffee crop in Brazil. Scientia Agricola, 2006, 63, 105-114.	1.2	30
76	Field spatial and temporal patterns of soil water content and bulk density changes. Scientia Agricola, 2006, 63, 55-64.	1.2	43
77	Dados climáticos simulados e produtividade potencial do milho. Pesquisa Agropecuaria Brasileira, 2006, 41, 731-737.	0.9	3
78	Neural network and state-space models for studying relationships among soil properties. Scientia Agricola, 2006, 63, 386-395.	1.2	13
79	Application of Î ³ -ray computed tomography to analysis of soil structure before density evaluations. Applied Radiation and Isotopes, 2005, 63, 505-511.	1.5	18
80	Gamma ray computed tomography to evaluate wetting/drying soil structure changes. Nuclear Instruments & Methods in Physics Research B, 2005, 229, 443-456.	1.4	55
81	Soil water retention curve determined by gamma-ray beam attenuation. Soil and Tillage Research, 2005, 82, 89-97.	5.6	44
82	Random and systematic spatial variability of 137Cs inventories at reference sites in South-Central Brazil. Scientia Agricola, 2005, 62, 173-178.	1.2	11
83	Response to "Comments on â€~Simultaneous Measurement of Soil Penetration Resistance and Water Content with a Combined Penetrometer–TDR Moisture Probe' and â€~A Dynamic Cone Penetrometer for Measuring Soil Penetration Resistance'― Soil Science Society of America Journal, 2005, 69, 927-929.	2.2	14
84	The use of gamma ray computed tomography to investigate soil compaction due to core sampling devices. Brazilian Journal of Physics, 2004, 34, 728-731.	1.4	15
85	Damage to soil physical properties caused by soil sampler devices as assessed by gamma ray computed tomography. Soil Research, 2004, 42, 857.	1.1	25
86	Gamma-ray-computed tomography to investigate compaction on sewage-sludge-treated soil. Applied Radiation and Isotopes, 2003, 59, 17-25.	1.5	18
87	State-space analysis of soil data: an approach based on space-varying regression models. Scientia Agricola, 2003, 60, 371-376.	1.2	10
88	Gamma-ray computed tomography to characterize soil surface sealing. Applied Radiation and Isotopes, 2002, 57, 375-380.	1.5	18
89	Alterações estruturais do sistema radicular de soja em resposta à disponibilidade de fósforo no solo. Scientia Agricola, 2001, 58, 55-60.	1.2	4
90	Soil spatial variability and the estimation of the irrigation water depth. Scientia Agricola, 2001, 58, 549-553.	1.2	4

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91	Nitrogen dynamics in a soil-sugar cane system. Scientia Agricola, 2000, 57, 467-472.	1.2	15
92	Modelagem matemática como metodologia de análise do crescimento e arquitetura de sistemas radiculares. Scientia Agricola, 2000, 57, 683-691.	1.2	4
93	Interação solo-planta avaliada por modelagem estatÃstica de espaço de estados. Scientia Agricola, 2000, 57, 751-760.	1.2	9
94	THE USE OF A SURFACE GAMMA-NEUTRON GAUGE TO EXPLORE COMPACTED SOIL LAYERS. Soil Science, 2000, 165, 665-676.	0.9	5
95	Distribuição do sistema radicular de uma cultura de aveia forrageira. Scientia Agricola, 1999, 56, 1091-1100.	1.2	12
96	State-space approach for the analysis of soil water content and temperature in a sugarcane crop. Scientia Agricola, 1999, 56, 1215-1221.	1.2	52
97	An Emerging Technology for Scaling Field Soil-Water Behavior. , 1998, , 136-166.		16
98	Hydraulic variability in space and time in a dark red latosol of the tropics. Geoderma, 1993, 60, 159-168.	5.1	24
99	SOIL SPATIAL VARIABILITY AND SYMBIOTIC NITROGEN FIXATION BY LEGUMES. Soil Science, 1990, 150, 579-587.	0.9	2
100	The spatial variability of Amazonian soils under natural forest and pasture. Geo Journal, 1989, 19, 423.	3.1	3
101	Scaling of soil hydraulic properties in the evaluation of hydraulic conductivity determination methods. Soil and Tillage Research, 1989, 2, 163-170.	0.4	2
102	Aspects of soil physics in Brazil. Soil and Tillage Research, 1988, 1, 93-94.	0.4	1
103	UNSATURATED HYDRAULIC CONDUCTIVITY DETERMINATION BY A SCALING TECHNIQUE. Soil Science, 1975, 120, 165-168.	0.9	23
104	Uso da radiação gama na determinação da densidade aparente e da umidade do solo. Anais Da Escola Superior De Agricultura Luiz De Queiroz, 1965, 22, 195-198.	0.0	3
105	Vigor and oxidation reactions in soybean seedlings submitted to different seed chemical treatments. Journal of Seed Science, 0, 43, .	0.7	3
106	Performance of maize hybrids as a function of spatial arrangements during second growth season under irrigation. Bragantia, 0, 80, .	1.3	2
107	Root attributes and seedling biomass of old and modern soybean cultivars under water deficit. Emirates Journal of Food and Agriculture, 0, , 688.	1.0	1
108	Physiological and yield responses of soybean under water deficit. Journal of Crop Science and Biotechnology, 0, , .	1.5	2