

# Timothy R Green

## List of Publications by Year in descending order

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93  
papers

5,882  
citations

126907

33  
h-index

76900

74  
g-index

96  
all docs

96  
docs citations

96  
times ranked

7161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining water security indicators using hydrologic and agricultural systems models. <i>Journal of Hydrology</i> , 2022, 607, 127463.	5.4	18
2	Physiological trait networks enhance understanding of crop growth and water use in contrasting environments. <i>Plant, Cell and Environment</i> , 2022, 45, 2554-2572.	5.7	5
3	Hydrobiogeochemistry of Two Catchments in Brazil Under Forest Recovery in an Environmental Services Payment Program. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 3.	2.7	3
4	Fully distributed versus semi-distributed process simulation of a highly managed watershed with mixed land use and irrigation return flow. <i>Environmental Modelling and Software</i> , 2021, 140, 105000.	4.5	6
5	Bridging technology transfer boundaries: Integrated cloud services deliver results of nonlinear process models as surrogate model ensembles. <i>Environmental Modelling and Software</i> , 2021, 146, 105231.	4.5	9
6	Modeling Water Quality in Watersheds: From Here to the Next Generation. <i>Water Resources Research</i> , 2020, 56, e2020WR027721.	4.2	54
7	Stochastic analysis and probabilistic downscaling of soil moisture in small catchments. <i>Journal of Hydrology</i> , 2020, 585, 124711.	5.4	3
8	Enhanced hydrologic simulation may not improve downscaled soil moisture patterns without improved soil characterization. <i>Soil Science Society of America Journal</i> , 2020, 84, 672-689.	2.2	1
9	Unsustainable groundwater use for global food production and related international trade. <i>Global Sustainability</i> , 2019, 2, .	3.3	29
10	Winter Wheat Phenology Simulations Improve when Adding Responses to Water Stress. <i>Agronomy Journal</i> , 2019, 111, 2350-2360.	1.8	8
11	Effects of subsurface soil characteristics on wetland-groundwater interaction in the coastal plain of the Chesapeake Bay watershed. <i>Hydrological Processes</i> , 2019, 33, 305-315.	2.6	11
12	Application of an energy balance method for estimating evapotranspiration in cropping systems. <i>Agricultural Water Management</i> , 2018, 204, 107-117.	5.6	19
13	Where is the USA Corn Belt, and how is it changing?. <i>Science of the Total Environment</i> , 2018, 618, 1613-1618.	8.0	80
14	Irrigation variability and climate change affect derived distributions of simulated water recharge and nitrate leaching. <i>Water International</i> , 2018, 43, 829-845.	1.0	3
15	Hydrologic Downscaling of Soil Moisture Using Global Data Sets without Site-Specific Calibration. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	1.9	3
16	Impacts of precipitation and potential evapotranspiration patterns on downscaling soil moisture in regions with large topographic relief. <i>Water Resources Research</i> , 2017, 53, 1553-1574.	4.2	20
17	Measuring and Mapping Patterns of Soil Erosion and Deposition Related to Soil Carbonate Concentrations Under Agricultural Management. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0
18	A tribute in memory of Dr. James (Jim) C. Ascough II. <i>Environmental Modelling and Software</i> , 2017, 97, 211-212.	4.5	0

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19	Downscaling soil moisture over regions that include multiple coarse-resolution grid cells. Remote Sensing of Environment, 2017, 199, 187-200.	11.0	9
20	Optimum Returns from Greenhouse Vegetables under Water Quality and Risk Constraints in the United Arab Emirates. Sustainability, 2017, 9, 719.	3.2	5
21	Simulation of Hydrology and Nutrient Transport in the Hetao Irrigation District, Inner Mongolia, China. Water (Switzerland), 2017, 9, 169.	2.7	29
22	Hydrological modeling of the Ribeirão das Posses "An assessment based on the Agricultural Ecosystem Services (AgES) watershed model. Revista Ambiente & Água, 2017, 12, 351.	0.3	7
23	Improved Theory of Time Domain Reflectometry with Variable Coaxial Cable Length for Electrical Conductivity Measurements. Soil Science Society of America Journal, 2017, 81, 723-733.	2.2	3
24	Deploying the WinTR-20 Computational Engine as a Web Service. Applied Engineering in Agriculture, 2016, 32, 601-608.	0.7	2
25	Frequency Domain Probe Design for High Frequency Sensing of Soil Moisture. Agriculture (Switzerland), 2016, 6, 60.	3.1	12
26	Integration of a Three-Dimensional Process-Based Hydrological Model into the Object Modeling System. Water (Switzerland), 2016, 8, 12.	2.7	7
27	Proposed Standards for Peer-Reviewed Publication of Computer Code. Agronomy Journal, 2016, 108, 1782-1786.	1.8	2
28	Linking Climate Change and Groundwater. , 2016, , 97-141.		33
29	Operating principle of Soft Open Points for electrical distribution network operation. Applied Energy, 2016, 164, 245-257.	10.1	197
30	Development of the Land-use and Agricultural Management Practice web-Service (LAMPS) for generating crop rotations in space and time. Soil and Tillage Research, 2016, 155, 233-249.	5.6	14
31	Age-ranked hydrological budgets and a travel time description of catchment hydrology. Hydrology and Earth System Sciences, 2016, 20, 4929-4947.	4.9	14
32	Hydropedology: The Last Decade and the Next Decade. Soil Science Society of America Journal, 2015, 79, 357-361.	2.2	3
33	The AgroEcoSystem (AgES) Response-Function Model Simulates Layered Soil-Water Dynamics in Semiarid Colorado: Sensitivity and Calibration. Vadose Zone Journal, 2015, 14, 1-16.	2.2	8
34	Spatial Patterns and Cross-Correlations of Temporal Changes in Soil Carbonates and Surface Elevation in a Winter Wheat-Fallow Cropping System. Soil Science Society of America Journal, 2015, 79, 417-427.	2.2	5
35	Parameterization Guidelines and Considerations for Hydrologic Models. Transactions of the ASABE, 2015, 58, 1681-1703.	1.1	39
36	A method to downscale soil moisture to fine resolutions using topographic, vegetation, and soil data. Advances in Water Resources, 2015, 76, 81-96.	3.8	57

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37	Multisection Transmission Line Scatter Function Theory for Measurements of Soil Dielectric Properties. Soil Science Society of America Journal, 2014, 78, 1139-1145.	2.2	2
38	Introduction to Hydrology. , 2014, , 1-126.		7
39	The Drought Calculator: Decision Support Tool for Predicting Forage Growth During Drought. Rangeland Ecology and Management, 2013, 66, 570-578.	2.3	9
40	A software engineering perspective on environmental modeling framework design: The Object Modeling System. Environmental Modelling and Software, 2013, 39, 201-213.	4.5	131
41	Ground water and climate change. Nature Climate Change, 2013, 3, 322-329.	18.8	1,513
42	Soil Moisture Sensing via Swept Frequency Based Microwave Sensors. Sensors, 2012, 12, 753-767.	3.8	18
43	Modeling the effects of controlled drainage, N rate and weather on nitrate loss to subsurface drainage. Agricultural Water Management, 2012, 103, 150-161.	5.6	47
44	Spatial Interrelationships between Wheat Phenology, Thermal Time, and Terrain Attributes. Agronomy Journal, 2012, 104, 1110-1121.	1.8	13
45	Climate change impacts on dryland cropping systems in the Central Great Plains, USA. Climatic Change, 2012, 111, 445-472.	3.6	72
46	Measurement and inference of profile soil water dynamics at different hillslope positions in a semiarid agricultural watershed. Water Resources Research, 2011, 47, .	4.2	28
47	Seasonal shift in the climate responses of <i>Pinus sibirica</i> , <i>Pinus sylvestris</i> , and <i>Larix sibirica</i> trees from semi-arid, north-central Mongolia. Canadian Journal of Forest Research, 2011, 41, 1242-1255.	1.7	42
48	Beneath the surface of global change: Impacts of climate change on groundwater. Journal of Hydrology, 2011, 405, 532-560.	5.4	796
49	Environmental modeling framework invasiveness: Analysis and implications. Environmental Modelling and Software, 2011, 26, 1240-1250.	4.5	33
50	Fringe Capacitance Correction for a Coaxial Soil Cell. Sensors, 2011, 11, 757-770.	3.8	4
51	Comparison of Electrical and Thermal Conductivities for Soils From Five States. Soil Science, 2010, 175, 573-578.	0.9	12
52	Optimizing Soil Hydraulic Parameters in RZWQM2 under Fallow Conditions. Soil Science Society of America Journal, 2010, 74, 1897-1913.	2.2	34
53	Effective Soil Properties of Heterogeneous Areas For Modeling Infiltration and Redistribution. Soil Science Society of America Journal, 2010, 74, 1469-1482.	2.2	34
54	Hydra Probe and Twelve-Wire Probe Comparisons in Fluids and Soil Cores. Soil Science Society of America Journal, 2010, 74, 5-12.	2.2	28

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55	Simulation of free air CO <sub>2</sub> enriched wheat growth and interactions with water, nitrogen, and temperature. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1331-1346.	4.8	50
56	Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. <i>Agricultural Water Management</i> , 2010, 97, 1102-1116.	5.6	194
57	Crop water use efficiency at multiple scales. <i>Agricultural Water Management</i> , 2010, 97, 1099-1101.	5.6	12
58	Effects of Estimating Soil Hydraulic Properties and Root Growth Factor on Soil Water Balance and Crop Production. <i>Agronomy Journal</i> , 2009, 101, 572-583.	1.8	77
59	Fractal Analyses of Steady Infiltration and Terrain on an Undulating Agricultural Field. <i>Vadose Zone Journal</i> , 2009, 8, 310-320.	2.2	18
60	Tillage effects on soil hydraulic properties in space and time: State of the science. <i>Soil and Tillage Research</i> , 2008, 99, 4-48.	5.6	504
61	Development and testing of a terrain-based hydrologic model for spatial Hortonian Infiltration and Runoff/On. <i>Environmental Modelling and Software</i> , 2008, 23, 794-812.	4.5	15
62	Temporally stable patterns in grain yield and soil water on a dryland catena. <i>Agricultural Systems</i> , 2007, 94, 119-127.	6.1	8
63	Relating crop yield to topographic attributes using Spatial Analysis Neural Networks and regression. <i>Geoderma</i> , 2007, 139, 23-37.	5.1	42
64	Potential Impacts of Climate Change and Human Activity on Subsurface Water Resources. <i>Vadose Zone Journal</i> , 2007, 6, 531-532.	2.2	51
65	Physically Based Simulation of Potential Effects of Carbon Dioxide-Altered Climates on Groundwater Recharge. <i>Vadose Zone Journal</i> , 2007, 6, 597-609.	2.2	67
66	Digital Elevation Accuracy and Grid Cell Size: Effects on Estimated Terrain Attributes. <i>Soil Science Society of America Journal</i> , 2007, 71, 1371-1380.	2.2	51
67	Simulated Effects of Soil Temperature and Salinity on Capacitance Sensor Measurements. <i>Sensors</i> , 2007, 7, 548-577.	3.8	25
68	Modelling crop canopy and residue rainfall interception effects on soil hydrological components for semi-arid agriculture. <i>Hydrological Processes</i> , 2007, 21, 229-241.	2.6	81
69	Comparison of grid-based algorithms for computing upslope contributing area. <i>Water Resources Research</i> , 2006, 42, .	4.2	104
70	Modeling a wheat-maize double cropping system in China using two plant growth modules in RZWQM. <i>Agricultural Systems</i> , 2006, 89, 457-477.	6.1	80
71	Scaling analysis of space-time infiltration based on the universal multifractal model. <i>Journal of Hydrology</i> , 2006, 322, 220-235.	5.4	25
72	Laboratory Characterization of a Commercial Capacitance Sensor for Estimating Permittivity and Inferring Soil Water Content. <i>Vadose Zone Journal</i> , 2006, 5, 1048-1064.	2.2	41

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73	Evaluating Nitrogen and Water Management in a Double-Cropping System Using RZWQM. Vadose Zone Journal, 2006, 5, 493-505.	2.2	81
74	Effect of Soil Water on Apparent Soil Electrical Conductivity and Texture Relationships in a Dryland Field. Biosystems Engineering, 2006, 94, 19-32.	4.3	71
75	Aggregation and sampling in deterministic chaos: implications for chaos identification in hydrological processes. Nonlinear Processes in Geophysics, 2005, 12, 557-567.	1.3	38
76	Scaling and Estimation of Evaporation and Transpiration of Water across Soil Textures. Vadose Zone Journal, 2005, 4, 418-427.	2.2	22
77	Sensitivity of Spatial Analysis Neural Network Training and Interpolation to Structural Parameters. Mathematical Geosciences, 2004, 36, 721-742.	0.9	2
78	Measurement, scaling, and topographic analyses of spatial crop yield and soil water content. Hydrological Processes, 2004, 18, 1447-1465.	2.6	68
79	Fractal-Based Scaling and Scale-Invariant Dispersion of Peak Concentrations of Crop Protection Chemicals in Rivers. Environmental Science & Technology, 2004, 38, 2995-3003.	10.0	15
80	Advances and challenges in predicting agricultural management effects on soil hydraulic properties. Geoderma, 2003, 116, 3-27.	5.1	177
81	Human spermicidal activity of inorganic and organic oxidants. Fertility and Sterility, 2001, 76, 157-162.	1.0	8
82	Residue Cover and Surface Sealing Effects on Infiltration. Soil Science Society of America Journal, 2001, 65, 853-861.	2.2	47
83	The Tarrawarra project: high resolution spatial measurement, modelling and analysis of soil moisture and hydrological response. Hydrological Processes, 1999, 13, 633-652.	2.6	88
84	Modelling upland and instream erosion, sediment and phosphorus transport in a large catchment. Hydrological Processes, 1999, 13, 745-752.	2.6	40
85	An analytical model for stream sediment transport: application to Murray and Murrumbidgee river reaches, Australia. Hydrological Processes, 1999, 13, 763-776.	2.6	18
86	Relating stream-bank erosion to in-stream transport of suspended sediment. Hydrological Processes, 1999, 13, 777-787.	2.6	50
87	Simulated Impacts of Climate Change on Groundwater Recharge in the Subtropics of Queensland, Australia. , 1997, , 187-204.		4
88	Upscaled Soil-Water Retention Using van Genuchten's Function. Journal of Hydrologic Engineering - ASCE, 1996, 1, 123-130.	1.9	31
89	State-Dependent Anisotropy: Comparisons of Quasi-Analytical Solutions with Stochastic Results for Steady Gravity Drainage. Water Resources Research, 1995, 31, 2201-2211.	4.2	25
90	The Oxidation of Hypotaurine to Taurine: Bis-Aminoethyl-L-Cysteine Disulfone, A Metabolic Intermediate in Mammalian Tissue. Advances in Experimental Medicine and Biology, 1987, 217, 39-48.	1.6	39

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91	The NADPH:O <sub>2</sub> oxidoreductase of human neutrophils. Stoichiometry of univalent and divalent reduction of O <sub>2</sub> . Journal of Biological Chemistry, 1986, 261, 6010-6015.	3.4	27
92	The NADPH:O <sub>2</sub> oxidoreductase of human neutrophils. Stoichiometry of univalent and divalent reduction of O <sub>2</sub> . Journal of Biological Chemistry, 1986, 261, 6010-5.	3.4	23
93	Chlorophyll-a Concentration Assessment Using Remotely Sensed Data over Multiple Years along the Coasts of the United Arab Emirates. Emirates Journal of Food and Agriculture, 0, , 345.	1.0	1