

# Vincent C Tidwell

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,568  
citations

257101

24  
h-index

315357

38  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1578  
citing authors

#	ARTICLE	IF	CITATIONS
1	System dynamics modeling for community-based water planning: Application to the Middle Rio Grande. <i>Aquatic Sciences</i> , 2004, 66, 357-372.	0.6	144
2	X ray and visible light transmission for laboratory measurement of two-dimensional saturation fields in thin-slab systems. <i>Water Resources Research</i> , 1994, 30, 2873-2882.	1.7	135
3	Climate and water resource change impacts and adaptation potential for US power supply. <i>Nature Climate Change</i> , 2017, 7, 793-798.	8.1	103
4	Laboratory method for investigating permeability upscaling. <i>Water Resources Research</i> , 1997, 33, 1607-1616.	1.7	77
5	Modeling Sustainability of Water, Environment, Livelihood, and Culture in Traditional Irrigation Communities and Their Linked Watersheds. <i>Sustainability</i> , 2012, 4, 2998-3022.	1.6	67
6	Effects of spatially heterogeneous porosity on matrix diffusion as investigated by X-ray absorption imaging. <i>Journal of Contaminant Hydrology</i> , 2000, 42, 285-302.	1.6	64
7	Cooperative Modeling: Linking Science, Communication, and Ground Water Planning. <i>Ground Water</i> , 2008, 46, 174-182.	0.7	63
8	Exploring the Water-Thermoelectric Power Nexus. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 491-501.	1.3	56
9	Mapping water availability, projected use and cost in the western United States. <i>Environmental Research Letters</i> , 2014, 9, 064009.	2.2	56
10	Transitioning to zero freshwater withdrawal in the U.S. for thermoelectric generation. <i>Applied Energy</i> , 2014, 131, 508-516.	5.1	54
11	Embedded resource accounting for coupled natural&human systems: An application to water resource impacts of the western U.S. electrical energy trade. <i>Water Resources Research</i> , 2014, 50, 7957-7972.	1.7	47
12	Thermal pollution impacts on rivers and power supply in the Mississippi River watershed. <i>Environmental Research Letters</i> , 2018, 13, 034033.	2.2	47
13	Permeability Upscaling Measured on a Block of Berea Sandstone: Results and Interpretation. <i>Mathematical Geosciences</i> , 1999, 31, 749-769.	0.9	44
14	Upscaling experiments conducted on a block of volcanic tuff: Results for a bimodal permeability distribution. <i>Water Resources Research</i> , 1999, 35, 3375-3387.	1.7	38
15	A fresh look at a policy sciences methodology: collaborative modeling for more effective policy. <i>Policy Sciences</i> , 2009, 42, 211-225.	1.5	35
16	River Hydrograph Retransmission Functions of Irrigated Valley Surface Water&Groundwater Interactions. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2010, 136, 823-835.	0.6	34
17	Geographic Footprint of Electricity Use for Water Services in the Western U.S.. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8897-8904.	4.6	34
18	Modeling Acequia Irrigation Systems Using System Dynamics: Model Development, Evaluation, and Sensitivity Analyses to Investigate Effects of Socio-Economic and Biophysical Feedbacks. <i>Sustainability</i> , 2016, 8, 1019.	1.6	28

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19	Mapping water consumption for energy production around the Pacific Rim. Environmental Research Letters, 2016, 11, 094008.	2.2	28
20	Using a coupled agent-based modeling approach to analyze the role of risk perception in water management decisions. Hydrology and Earth System Sciences, 2019, 23, 2261-2278.	1.9	28
21	Climate-Water Adaptation for Future US Electricity Infrastructure. Environmental Science & Technology, 2019, 53, 14029-14040.	4.6	27
22	Comparison of laboratory-scale solute transport visualization experiments with numerical simulation using cross-bedded sandstone. Advances in Water Resources, 2008, 31, 1731-1741.	1.7	26
23	Use of X-ray absorption imaging to examine heterogeneous diffusion in fractured crystalline rocks. Journal of Contaminant Hydrology, 2004, 69, 1-26.	1.6	25
24	Water supply as a constraint on transmission expansion planning in the Western interconnection. Environmental Research Letters, 2016, 11, 124001.	2.2	25
25	What does an instrument measure? Empirical spatial weighting functions calculated from permeability data sets measured on multiple sample supports. Water Resources Research, 1999, 35, 43-54.	1.7	24
26	Assessing Public Perceptions of Computer-Based Models. Environmental Management, 2004, 34, 609-619.	1.2	23
27	Impact of climate change on adaptive management decisions in the face of water scarcity. Journal of Hydrology, 2020, 588, 125015.	2.3	23
28	Potential Impacts of Electric Power Production Utilizing Natural Gas, Renewables and Carbon Capture and Sequestration on U.S. Freshwater Resources. Environmental Science & Technology, 2013, 47, 130716133441006.	4.6	20
29	Mapping water availability, cost and projected consumptive use in the eastern United States with comparisons to the west. Environmental Research Letters, 2018, 13, 014023.	2.2	20
30	Laboratory investigation of matrix imbibition from a flowing fracture. Geophysical Research Letters, 1995, 22, 1405-1408.	1.5	19
31	Commentary: Cooperative Modeling Lessons for Environmental Management. Environmental Practice, 2007, 9, 28-41.	0.3	16
32	Visual attributes of a rock and their relationship to permeability: A comparison of digital image and minipermeameter data. Water Resources Research, 2002, 38, 43-1-43-13.	1.7	12
33	Visualization experiment to investigate capillary barrier performance in the context of a Yucca Mountain emplacement drift. Journal of Contaminant Hydrology, 2003, 62-63, 287-301.	1.6	12
34	Implications of Power Plant Idling and Cycling on Water Use Intensity. Environmental Science & Technology, 2019, 53, 4657-4666.	4.6	12
35	Planning for sustained water-electricity resilience over the U.S.: Persistence of current water-electricity operations and long-term transformative plans. Water Security, 2019, 7, 100035.	1.2	10
36	Laboratory Imaging of Stimulation Fluid Displacement from Hydraulic Fractures. , 1996, , .		9

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37	Collaborative Community Hydrology Research in Northern New Mexico. <i>Journal of Contemporary Water Research and Education</i> , 2013, 152, 49-54.	0.7	9
38	Mapping the energy footprint of produced water management in New Mexico. <i>Environmental Research Letters</i> , 2018, 13, 024008.	2.2	8
39	An Integrated Food, Energy, and Water Nexus, Human Well-Being, and Resilience (FEW-WISE) Framework: New Mexico. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	8
40	A Regional Model of Climate Change and Human Migration. <i>International Journal of System Dynamics Applications</i> , 2019, 8, 1-22.	0.3	7
41	Threats to a Colorado river provisioning basin under coupled future climate and societal scenarios. <i>Environmental Research Communications</i> , 2019, 1, 095001.	0.9	6
42	Environmental Reviews & Case Studies: Engaging the Public and Decision Makers in Cooperative Modeling for Regional Water Management. <i>Environmental Practice</i> , 2010, 12, 316-327.	0.3	5
43	A multi-reservoir model for projecting drought impacts on thermoelectric disruption risk across the Texas power grid. <i>Energy</i> , 2021, 231, 120892.	4.5	5
44	Framework for shared drinking water risk assessment. <i>International Journal of Critical Infrastructure Protection</i> , 2019, 24, 37-47.	2.9	4
45	Dynamic physical and economic modelling of riparian restoration options. <i>Environmental Modelling and Software</i> , 2010, 25, 1825-1836.	1.9	3
46	Reduced and Earlier Snowmelt Runoff Impacts Traditional Irrigation Systems. <i>Journal of Contemporary Water Research and Education</i> , 2019, 168, 10-28.	0.7	3
47	Energy: Supply, Demand, and Impacts. , 2013, , 240-266.		3
48	Laboratory evaluation of time domain reflectometry for continuous monitoring of stream stage, channel profile, and aqueous conductivity. <i>Water Resources Research</i> , 2005, 41, .	1.7	2
49	Plant-level characteristics could aid in the assessment of water-related threats to the electric power sector. <i>Applied Energy</i> , 2021, 282, 116161.	5.1	2
50	Air Permeability Measurements in Porous Media. , 2006, , 273-278.		2
51	Effects of Cooling System Operations on Withdrawal for Thermoelectric Power. , 2017, , .		2
52	Scaling Issues in Porous and Fractured Media. , 2006, , 201-212.		1
53	A Regional Model of Climate Change and Human Migration. , 2022, , 449-471.		1