

# Vincent C Tidwell

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,568  
citations

257450

24  
h-index

315739

38  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1578  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Regional Model of Climate Change and Human Migration. , 2022, , 449-471.		1
2	Plant-level characteristics could aid in the assessment of water-related threats to the electric power sector. Applied Energy, 2021, 282, 116161.	10.1	2
3	An Integrated Food, Energy, and Water Nexus, Human Well-Being, and Resilience (FEW-WISE) Framework: New Mexico. Frontiers in Environmental Science, 2021, 9, .	3.3	8
4	A multi-reservoir model for projecting drought impacts on thermoelectric disruption risk across the Texas power grid. Energy, 2021, 231, 120892.	8.8	5
5	Impact of climate change on adaptive management decisions in the face of water scarcity. Journal of Hydrology, 2020, 588, 125015.	5.4	23
6	Threats to a Colorado river provisioning basin under coupled future climate and societal scenarios. Environmental Research Communications, 2019, 1, 095001.	2.3	6
7	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.	2.5	10
8	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.	4.9	28
9	A Regional Model of Climate Change and Human Migration. International Journal of System Dynamics Applications, 2019, 8, 1-22.	0.3	7
10	Implications of Power Plant Idling and Cycling on Water Use Intensity. Environmental Science & Technology, 2019, 53, 4657-4666.	10.0	12
11	Reduced and Earlier Snowmelt Runoff Impacts Traditional Irrigation Systems. Journal of Contemporary Water Research and Education, 2019, 168, 10-28.	0.7	3
12	Climate-Water Adaptation for Future US Electricity Infrastructure. Environmental Science & Technology, 2019, 53, 14029-14040.	10.0	27
13	Framework for shared drinking water risk assessment. International Journal of Critical Infrastructure Protection, 2019, 24, 37-47.	4.6	4
14	Thermal pollution impacts on rivers and power supply in the Mississippi River watershed. Environmental Research Letters, 2018, 13, 034033.	5.2	47
15	Mapping water availability, cost and projected consumptive use in the eastern United States with comparisons to the west. Environmental Research Letters, 2018, 13, 014023.	5.2	20
16	Mapping the energy footprint of produced water management in New Mexico. Environmental Research Letters, 2018, 13, 024008.	5.2	8
17	Climate and water resource change impacts and adaptation potential for US power supply. Nature Climate Change, 2017, 7, 793-798.	18.8	103
18	Effects of Cooling System Operations on Withdrawal for Thermoelectric Power. , 2017, , .		2

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19	Water supply as a constraint on transmission expansion planning in the Western interconnection. Environmental Research Letters, 2016, 11, 124001.	5.2	25
20	Modeling Acequia Irrigation Systems Using System Dynamics: Model Development, Evaluation, and Sensitivity Analyses to Investigate Effects of Socio-Economic and Biophysical Feedbacks. Sustainability, 2016, 8, 1019.	3.2	28
21	Mapping water consumption for energy production around the Pacific Rim. Environmental Research Letters, 2016, 11, 094008.	5.2	28
22	Transitioning to zero freshwater withdrawal in the U.S. for thermoelectric generation. Applied Energy, 2014, 131, 508-516.	10.1	54
23	Mapping water availability, projected use and cost in the western United States. Environmental Research Letters, 2014, 9, 064009.	5.2	56
24	Geographic Footprint of Electricity Use for Water Services in the Western U.S.. Environmental Science & Technology, 2014, 48, 8897-8904.	10.0	34
25	Embedded resource accounting for coupled natural&human systems: An application to water resource impacts of the western U.S. electrical energy trade. Water Resources Research, 2014, 50, 7957-7972.	4.2	47
26	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.	10.0	20
27	Collaborative Community Hydrology Research in Northern New Mexico. Journal of Contemporary Water Research and Education, 2013, 152, 49-54.	0.7	9
28	Energy: Supply, Demand, and Impacts. , 2013, , 240-266.		3
29	Modeling Sustainability of Water, Environment, Livelihood, and Culture in Traditional Irrigation Communities and Their Linked Watersheds. Sustainability, 2012, 4, 2998-3022.	3.2	67
30	Exploring the Water-Thermoelectric Power Nexus. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 491-501.	2.6	56
31	Dynamic physical and economic modelling of riparian restoration options. Environmental Modelling and Software, 2010, 25, 1825-1836.	4.5	3
32	Environmental Reviews & Case Studies: Engaging the Public and Decision Makers in Cooperative Modeling for Regional Water Management. Environmental Practice, 2010, 12, 316-327.	0.3	5
33	River Hydrograph Retransmission Functions of Irrigated Valley Surface Water&quot;Groundwater Interactions. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 823-835.	1.0	34
34	A fresh look at a policy sciences methodology: collaborative modeling for more effective policy. Policy Sciences, 2009, 42, 211-225.	2.8	35
35	Comparison of laboratory-scale solute transport visualization experiments with numerical simulation using cross-bedded sandstone. Advances in Water Resources, 2008, 31, 1731-1741.	3.8	26
36	Cooperative Modeling: Linking Science, Communication, and Ground Water Planning. Ground Water, 2008, 46, 174-182.	1.3	63

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37	Commentary: Cooperative Modeling Lessons for Environmental Management. <i>Environmental Practice</i> , 2007, 9, 28-41.	0.3	16
38	Scaling Issues in Porous and Fractured Media. , 2006, , 201-212.		1
39	Air Permeability Measurements in Porous Media. , 2006, , 273-278.		2
40	Laboratory evaluation of time domain reflectometry for continuous monitoring of stream stage, channel profile, and aqueous conductivity. <i>Water Resources Research</i> , 2005, 41, .	4.2	2
41	Use of X-ray absorption imaging to examine heterogeneous diffusion in fractured crystalline rocks. <i>Journal of Contaminant Hydrology</i> , 2004, 69, 1-26.	3.3	25
42	Assessing Public Perceptions of Computer-Based Models. <i>Environmental Management</i> , 2004, 34, 609-619.	2.7	23
43	System dynamics modeling for community-based water planning: Application to the Middle Rio Grande. <i>Aquatic Sciences</i> , 2004, 66, 357-372.	1.5	144
44	Visualization experiment to investigate capillary barrier performance in the context of a Yucca Mountain emplacement drift. <i>Journal of Contaminant Hydrology</i> , 2003, 62-63, 287-301.	3.3	12
45	Visual attributes of a rock and their relationship to permeability: A comparison of digital image and minipermeameter data. <i>Water Resources Research</i> , 2002, 38, 43-1-43-13.	4.2	12
46	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.	3.3	64
47	Permeability Upscaling Measured on a Block of Berea Sandstone: Results and Interpretation. <i>Mathematical Geosciences</i> , 1999, 31, 749-769.	0.9	44
48	What does an instrument measure? Empirical spatial weighting functions calculated from permeability data sets measured on multiple sample supports. <i>Water Resources Research</i> , 1999, 35, 43-54.	4.2	24
49	Upscaling experiments conducted on a block of volcanic tuff: Results for a bimodal permeability distribution. <i>Water Resources Research</i> , 1999, 35, 3375-3387.	4.2	38
50	Laboratory method for investigating permeability upscaling. <i>Water Resources Research</i> , 1997, 33, 1607-1616.	4.2	77
51	Laboratory Imaging of Stimulation Fluid Displacement from Hydraulic Fractures. , 1996, , .		9
52	Laboratory investigation of matrix imbibition from a flowing fracture. <i>Geophysical Research Letters</i> , 1995, 22, 1405-1408.	4.0	19
53	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.	4.2	135