

Curriculum Vitae

PAOLO D'ODORICO

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Department of Environmental Science, Policy, and Management,
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Education

May 1998 Ph.D., Hydraulic Engineering, University of Padova, Italy.
March 1994 M.S. (Laurea), Civil Engineering, University of Padova, Italy.

Academic Appointments

2019- Chair, Department of Environmental Science, Policy, Management, University of California, Berkeley, USA.
2018-2019 Chair, Ecosystem Science Division in the Environmental Science, Policy, Management Department, University of California, Berkeley, USA.
2018- Adjunct Professor of Civil & Environmental Engineering, University of California, Berkeley, USA.
2016- Professor, Environmental Science, Policy & Management Dept., University of California, Berkeley, USA.
2010-2016 Ernest H. Ern Professor of Environmental Sciences, University of Virginia, Charlottesville, USA.
2015 Sabbatical Fellow, National Center for Social Environmental Synthesis, University of Maryland USA.
2011 Visiting Professor, Ecole Polytechnique Fédérale de Lausanne – EPFL – Lausanne, Switzerland.
2006-2010 Associate Professor, Department of Environmental Sciences, University of Virginia, USA.
2001-2006 Assistant Professor, Department of Environmental Sciences, University of Virginia, USA.
1999-2001 Assistant Professor, Department of Civil Engineering, Texas A&M University, College Station, USA.
1999 Research Associate, Department of Civil and Operations Research, Princeton University, USA.
1997-1998 Research Associate, Department of Civil Engineering, Texas A&M University, College Station, USA.

Honors and Awards

2016 *Paul Witherspoon Lecture*, American Geophysical Union.
2016 *Fellow*, American Geophysical Union.
2013 *Maurry-Tice Environmental Prize*, University of Virginia.
2013 *Distinguished Investigator Award*, University of Virginia
2011 *Fellow*, John Simon Guggenheim Memorial Foundation.
2011 *Fulbright Distinguished Lecturer*, J. William Fulbright Foreign Scholarship Board.
2009 *Sustainability Science Award*, Ecological Society of America.
2004 *Lagrange Fellow*, Fondazione CRT and Fondazione ISI, Torino, Italy.
2003 *University of Virginia Teaching Fellow*, Charlottesville, Virginia.
1998-1999 *Prof. Aldo Gini Fellowship* for studies and research abroad, Gini Foundation, Padua, Italy.
1998 *Prof. Emanuele Guggino Dissertation Prize*, CSEI, Mediterranean Polytechnic Foundation, CT, Italy.
1994 *Magna Cum Laude* distinction, University of Padua, Italy.

Editorial Boards

- **Editor-in-Chief**, *Advances in Water Resources* (2014-)
- **Editor**, *Reviews of Geophysics* (2019-)
- **Editorial Board**, *Oxford Encyclopedia of Environmental Sciences* (2014-)
- **Associate Editor**, *Frontiers in Sustainable Food Systems* (2017-)
- **Editor**, *Geophysical Research Letters*, 2009-2013
- **Editorial Board**, *Advances in Water Resources*, 2012-2014
- **Associate Editor**, *Water Resources Research*, 2004-2009

Research Interests

Eco-hydrology, water sustainability, surface hydrology, stochastic modeling of hydrologic processes, soil moisture dynamics, regional water cycle, soil erosion, desertification, water and food security.

Publications ([*] denotes publications with my advisees; Google Scholar H-Index=70; ISI-Web of Knowledge H-Index=52)

Books

P. D'Odorico, A. Porporato, C.W. Runyan (Editors), *Dryland Ecohydrology* 2nd Edition, Springer, 594 pp., 2019.

Runyan, C.W. and **P. D'Odorico**. *Global Deforestation*, Cambridge University Press, New York, 248 pp., 2016.

Hornberger, G. M., P. L. Wiberg, J. Raffensberger, and **P. D'Odorico**. *Elements of Physical Hydrology*, 2nd ed., Baltimore, Maryland: Johns Hopkins Press, 2014.

Ridolfi, L., **P. D'Odorico**, and F. Laio, *Noise-induced Phenomena in the Environmental Sciences*, Cambridge University Press, New York, 314pp., 2011.

P. D'Odorico and A. Porporato (Editors), *Dryland Ecohydrology*, Springer, 2006.

Peer-reviewed journal articles

1. **D'Odorico, P.**, D.D. Chiarelli, L. Rosa, A. Bini, D. Zilberman, and M.C. Rulli (2020). "The value of water in agriculture", *Proc. Natnl. Acad. Sci. USA*, www.pnas.org/cgi/doi/10.1073/pnas.2005835117.
2. Rosa, L., D.L. Sanchez, G. Realmonte, D. Baldocchi, **P. D'Odorico** (2020). "The water footprint of carbon capture and storage technologies", *Renewable & Sustainable Energy Reviews*, in press.
3. Chiarelli, D.D., C. Passera, L. Rosa, K. F. Davis, **P. D'Odorico**, and M. C. Rulli. Global gridded dataset of crop-specific green and blue water requirements, the WATNEEDS model. *Scientific Data*. 7, 273.
4. Davis, K., H Koo, J. Dell'Angelo, **P. D'Odorico**, L. Estes, L. Kehoe, M. Kharratzadeh, T. Kuemmerle, D. Machava, A. Pais, N. Ribeiro, M.C. Rulli, and M. Tatlhego (2020). "Tropical forest loss enhanced by large-scale land acquisitions", *Nature Geosciences*, 13, 482–488.
5. Beltran-Pena, A. A., L. Rosa, and **P. D'Odorico**, (2020). "Global food self-sufficiency in the 21st century under sustainable intensification of agriculture", *Environm. Res. Lett.*, 15(9) 095004.
6. Huang, H., L.D.L. Anderegg, T.E. Dawson, M. Mote, and **P. D'Odorico** (2020). "Critical transition to woody plant dominance through microclimate feedbacks in North American coastal ecosystems", *Ecology*, 101(9): e03107. [10.1002/ecy.3107](https://doi.org/10.1002/ecy.3107)
7. Rosa, L., J.A. Reimer, M. Went, and **P. D'Odorico** (2020). "Hydrological limits to carbon capture and storage", *Nature Sustainability*, <https://doi.org/10.1038/s41893-020-0532-7>.
8. Brelsford, C., M. Dumas, E. Schlager, B. Dermody, M. Aiuvalasit, M. Allen-Dumas, J. Beecher, U. Bhatia, **P. D'Odorico**, M. Garcia, P. Gober, D. Groenfeldt, S. Lansing, K. Madani, L. E. Méndez-Barrientos, E. Mondino, M. Müller, F. O'Donnell, P. Mbullo Owuor, J. Rising, M. Sanderson, F. Arguello de Souza, S. Zipper (2020), Developing a sustainability science approach for water systems, *Ecology and Society*, in press.
9. Kinnunen, P., J. H. A. Guillaume, M. Taka, **P. D'Odorico**, S. Siebert, M. J. Puma, M. Jalava, M. Kummu (2020). "Local food crop production can fulfil demand for less than one-third of population", *Nature Food*, 1, 229-237.
10. Rosa, L., D.D. Danilo Chiarelli, M.C. Rulli, J. Dell'Angelo, and **P. D'Odorico** (2020). "Global agricultural economic water scarcity", *Science Advances*, 6: eaaz6031.
11. Chiarelli, D., C. Passera, M.C. Rulli, L. Rosa, and **P. D'Odorico** (2020), "Hydrological consequences of natural rubber plantations in Southeast Asia", *Land Degradation and Development*, <https://doi.org/10.1002/ldr.3591>.
12. Tu, C., S. Suweis, and **P. D'Odorico**, "Critical slowing down associated with critical transition and risk of collapse in cryptocurrency", *Royal Society Open Science*, 7: 191450. <http://dx.doi.org/10.1098/rsos.191450>.
13. Heslin, A., M. Puma, P. Marchand, J.A. Carr, J. Dell'Angelo, **P. D'Odorico**, J. A. Gephart, M. Kummu, M. Porkka, M.C. Rulli, D. A. Seekell, S. Suweis, A. Tavoni, "Simulating the cascading effects of an extreme agricultural production shock: global implications of a contemporary US Dust Bowl event", *Frontiers in Sustainable Food Systems*, 4(26).
14. Huang, H., Y. Feng, K. Yu, and **P. D'Odorico** (2020). "CAM plant expansion favored indirectly by asymmetric climate warming and increased rainfall variability", *Oecologia*, 193, 1-13.
15. Borsato, E., L. Rosa, P. Tarolli, F. Marinello, and **P. D'Odorico**, (2020). "Weak and Strong Sustainability of Irrigation: A Framework for Irrigation Practices Under Limited Water Availability", *Front. Sustain. Food Syst.* 4:17. doi: [10.3389/fsufs.2020.00017](https://doi.org/10.3389/fsufs.2020.00017)
16. Huang, H., **P. D'Odorico**, (2020) "Critical transitions in plant-pollinator systems induced by positive inbreeding-reward-pollinator feedbacks", *iScience* (2020), doi: <https://doi.org/10.1016/j.isci.2020.100819>.

17. Tatlhego M., A. Bhattachan, G. S. Okin, **P. D'Odorico** (2020). "Mapping areas of the Southern Ocean where productivity likely depends on dust-delivered iron", *J. Geophys. Res.—Atmospheres*, 125, e2019JD030926; doi.org/10.1029/2019JD030926.
18. Hassani A., A. Azapagic, **P. D'Odorico**, A. Keshmiri, N. Shokri, (2020). "Desiccation crisis of saline lakes: A new decision-support framework for building resilience to climate change", *Science of Total Environment*, 703(10), 134718.
19. Wang, L., and **P. D'Odorico** (2019). "Water limitations to large-scale desert agroforestry projects for carbon sequestration", *Proceedings of the National Academy of Science U.S.A.*, [pnas.org/cgi/doi/10.1073/pnas.1917692116](https://doi.org/10.1073/pnas.1917692116).
20. Rosa, L., D. Chiarelli, C. Tu, M.C. Rulli, and **P. D'Odorico**, (2019). "Global unsustainable virtual water flows in agricultural trade", *Environm. Res. Lett.*, 14, 114001.
21. Webb, N., G.S. Okin, A. Bhattachan, **P. D'Odorico**, K. Dintwe, M. Tatlhego (2019), " Ecosystem dynamics and aeolian sediment transport in the southern Kalahari" *African Journal of Ecology*, 2019;00:1–8. <https://doi.org/10.1111/aje.12700>.
22. Huang, H., K. Yu, Y. Fan, and **P. D'Odorico** (2019), "The competitive advantage of C4 grasses over CAM plants under increased rainfall variability", *Plant and Soil*, 442(1–2), 483–495.
23. Tu, C., S. Suweis, and **P. D'Odorico**, (2019). "Impact of globalization on the resilience and sustainability of natural resources", *Nature Sustainability*, 2, 283–289.
24. Meyer, T., P. Holloway, T.B. Christiansen, J.A. Miller, **P. D'Odorico**, and G. S. Okin, (2019). "An Assessment of Multiple Drivers Determining Woody Species Composition and Structure: A Case Study from the Kalahari, Botswana", *Land*, 8(8), 122; <https://doi.org/10.3390/land8080122>.
25. Saha, M.V., **P. D'Odorico**, and T.M. Scanlon, (2019). "Kalahari wildfires drive continental post-fire brightening in sub-Saharan Africa", *Remote Sens.* 2019, 11, 1090; doi:10.3390/rs11091090.
26. Yu, K., **P. D'Odorico**, S. L. Collins, D. Carr, A. Porporato, W. R. L. Anderegg, W. P. Gilhooly III, L. Wang, A. Bhattachan, M. Bartlett, S. Hartzell, J. Yin, Y. He, W. Li, M. Tatlhego, and J. D. Fuentes (2019). The competitive advantage of a constitutive CAM species over a C4grass species under drought and CO₂ enrichment, *Ecosphere* 10(5):e02721. [10.1002/ecs2.272](https://doi.org/10.1002/ecs2.272).
27. **D'Odorico P.**, J.A. Carr, K. F. Davis, J. Dell'Angelo, DA Seekell (2019). "Food inequality, injustice, and rights", *BioScience*, 69(3), 180-190, <https://doi.org/10.1093/biosci/biz002>.
28. **D'Odorico, P.**, J.A. Carr, C. Dalin, J. Dell'Angelo, M. Konar, F. Laio, L. Ridolfi, L. Rosa, S. Suweis, M. Tuninetti, (2019). Global virtual water trade and the hydrological cycle: Patterns, drivers, and socio-environmental impacts, *Environmental research Letters*, 14, 053001. <https://doi.org/10.1088/1748-9326/ab05f4>.
29. Rulli, M.C., S. Casirati, J. Dell'Angelo, K.F. Davis, C. Passera, **P. D'Odorico**, (2019). "Interdependencies and telecoupling of oil palm expansion at the expense of Indonesian rainforest", (2019). *Renewable & Sustainable Energy Reviews*, 105: 499-512, <https://doi.org/10.1016/j.rser.2018.12.050>.
30. Fan, Y., X. Li, H. Huang, X. Wu, K. Yu, J. Wei, Junqi, C. Zhang, P. Wang, Pei, X. Hu, **P. D'Odorico**, (2019). "Does phenology play a role in the feedbacks underlying shrub encroachment?", *Science of Total Environment*, 657: 1064-1073, [10.1016/j.scitotenv.2018.12.125](https://doi.org/10.1016/j.scitotenv.2018.12.125).
31. Rosa, L and **P. D'Odorico** (2019). "The water-energy-food nexus of unconventional oil and gas extraction in the Vaca Muerta Play, Argentina", *J. Cleaner Production*, 207:743-750. <https://doi.org/10.1016/j.jclepro.2018.10.039> .[*]
32. Saha, M., T.M. Scanlon, and **P. D'Odorico**, (2019). "Climate seasonality as an essential predictor of global fire activity", *Global Ecol. Biogeogr.* 29(2), 198-210. DOI: 10.1111/geb.12836. [*]
33. Pivato, M., L. Carniello, I. Moro, and **P. D'Odorico**, (2019). "On the feedback between water turbidity and microphyto-benthos growth in shallow tidal environments", *Earth Surface Processes & Landforms*, 44, 1192–1206, <https://doi.org/10.1002/esp.4567>.
34. **D'Odorico, P.** (2018), The challenges of meeting future food, energy, and water needs, *Eos*, 99, <https://doi.org/10.1029/2018EO098891>.
35. Seekell, D.A., **P. D'Odorico**, and G.K. MacDonald, 2018. "Food, trade, and the environment", *Environm. Res. Lett.*, 13(10), 100201.
36. Rosa., L., M.C. Rulli, K.F. Davis, D. Chiarelli, C. Passera, **P. D'Odorico**, 2018. "Closing the yield gap while ensuring water sustainability", *Environm. Res. Lett.*, 13 104002.[*]
37. Dell'Angelo, J., **P. D'Odorico**, and M.C. Rulli, (2018). "The neglected costs of water peace", *WIREs Water*, 5(6), e1316. <https://doi.org/10.1002/wat2.1316>.
38. Huang, H., J.C. Zinnert, L.K. Wood, D.R. Young, and **P. D'Odorico**, 2018. "A non-linear shift from grassland to shrubland in temperate barrier islands", *Ecology*, 99(7): 1671-1681, ECY2383, doi: 10.1002/ecy.2383.[*]
39. Davis, K.F., A. Bhattachan, **P. D'Odorico**, and S. Suweis, 2018, "A universal model for predicting human migration under climate change: Examining future sea level rise in Bangladesh", *Environm. Res. Lett.*, 13, 064030, <https://doi.org/10.1088/1748-9326/aac4d4>.
40. Yu, K., D. Carr, W. Anderegg, K. Tully, and **P. D'Odorico**, 2018. "Response of a facultative CAM plant and its competitive relationship with a grass to changes in rainfall regime", *Plant and Soil*, 427:321–333, <https://doi.org/10.1007/s11104-018-3657-y>.[*]

41. **D'Odorico, P.**, K.F. Davis, L. Rosa, J.A. Carr, D. Chiarelli, J. Dell'Angelo, J.A. Gephart, G.K. MacDonald, D.A. Seekell, S. Suweis, M.C. Rulli, 2018. "The global food-energy-water nexus", *Reviews of Geophysics*, 56, 456–531, <https://doi.org/10.1029/2017RG000591>
42. Okin, G., **P. D'Odorico**, and J. Liu, 2018. "A mechanism of land degradation in turf-mantled slopes of the Tibetan Plateau", *Geophys. Res. Lett.* 45(9), 4041-4048.
43. Rosa, L., K.F. Davis, M.C. Rulli, and **P. D'Odorico**, 2018. "The water-energy nexus of hydraulic fracturing: a global hydrologic analysis for shale oil and gas extraction", *Earth's Future*, 6, <https://doi.org/10.1002/2018EF000809>.[*]
44. Getz, W., C. Marshall, C. Carlson, L. Giuggioli, S. Ryan, S. Romanach, C. Boettiger, S. Chamberlian, L. Larsen, **P. D'Odorico**, D. O'Sullivan, 2018. "Making ecosystems models adequate", *Ecology Letters*, DOI: 10.1111/ele.12893.
45. Chiarelli, D., L. Rosa, M.C. Rulli, and **P. D'Odorico**, 2018. "The water-food nexus of natural rubber production", *J. Cleaner Production*, 172, 1739-1747.
46. Dell'Angelo, J., **P. D'Odorico**, and M.C. Rulli, 2018. "The Global Water Grab Syndrome", *Ecological Economics*, 143, 276-285.
47. Calabrese, S., A. Porporato, F. Laio, **P. D'Odorico**, and L. Ridolfi, 2017. "Age distribution dynamics with stochastic jumps in mortality", *Proc. R. Soc. Lond. A*, 473(2207), DOI: 10.1098/rspa.2017.0451.
48. Davis, K.F., M.C. Rulli, A. Seveso, and **P. D'Odorico**, 2017. "Increase in food production and reduction in water use through optimized crop distribution", *Nature Geosciences*, doi.org/10.1038/s41561-017-0004-5.[*]
49. **D'Odorico P.**, J.L. Natyzak, E. A. Castner, K. F. Davis, K. Emery, J.A. Gephart, A. Leach, M.L. Pace, and J.N. Galloway, 2017. "Ancient water supports today's energy needs", *Earth's Future*, 5(5), 515-519, doi:10.1002/2017EF000544.
50. Natyzak, J.L., E.A. Castner, **P. D'Odorico**, J.N. Galloway, 2017. "Virtual Water as a Metric for Institutional Sustainability", *Sustainability The Journal of Record*, 10(4), 238-245.[*]
51. Siciliano G., M.C. Rulli, and **P. D'Odorico**, 2017. "European large-scale farmland investments and the water, energy, food nexus", *Adv. Water Resour.*, doi.org/10.1016/j.advwatres.2017.08.012.
52. Yu, K., **P. D'Odorico**, D. Carr, A. Personius, S.L. Collins, 2017. "The effect of nitrogen availability and water conditions on competition between a facultative CAM plant and an invasive grass", *Ecology & Evolution*, 1–11. <https://doi.org/10.1002/ece3.3296>.[*]
53. **D'Odorico P.**, M.C. Rulli, J. Dell'Angelo, K.F. Davis, 2017. "New frontiers of land and water commodification: socioenvironmental controversies of large-scale land acquisitions", *Land Degradation & Development*, DOI: 10.1002/ldr.2750.
54. Dell'Angelo, J., M.C. Rulli, and **P. D'Odorico**, 2017. "Land and water grabbing threats to sustainable development", *Current Opinions in Environment and Sustainability*, 26, 120-128.[*]
55. Saha, M. V., **P. D'Odorico**, and T. M. Scanlon, 2017. Albedo changes after fire as an explanation of fire-induced rainfall suppression, *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL073623.[*]
56. Yu, K., **P. D'Odorico**, W. Li, Y. He, 2017. "Effects of competition on induction of crassulacean acid metabolism in a facultative CAM plant". *Oecologia*, 184(2), 351-361, DOI: 10.1007/s00442-017-3868-6.[*]
57. S. Van Pelt, Baddock, M. T.M. Zobeck, S. Ravi, A. Bhattachan, and **P. D'Odorico**, 2017. "Total vertical sediment flux and PM10 emissions from disturbed Chihuahuan Desert surfaces", *Geoderma*, 293, 19-25.
58. Rosa, L., K.F. Davis, M.C. Rulli, and **P. D'Odorico**, 2017. "Environmental consequences of oil production from oil sands", *Earth's Future*, 5, doi:10.1002/2016EF000484.[*]
59. Seekell, D.A., J. Carr, J. Dell'Angelo, **P. D'Odorico**, M. Fader, J. Gephart, R.P. Korzeniewicz, M. Kummu, N. Magliocca, M. Porkka, C. Prell, M. Puma, Z. Ratajczak, M.C. Rulli, S. Suweis, A. Tavoni, 2017, "Resilience in the global food system", *Environm. Res. Lett.*, 12, <http://iopscience.iop.org/1748-9326/12/2/025010>.
60. Rulli, M.C., M. Santini M., **P. D'Odorico**, 2017. "The nexus between forest fragmentation in Africa and Ebola virus disease outbreaks", *Sci. Rep.*, 7: 41613.
61. Davis, K.F., A. Seveso, M.C. Rulli, and **P. D'Odorico**, 2017, "Water savings of crop redistribution in the United States", *Water*, 9, 83; doi:10.3390/w9020083. [*]
62. Dell'Angelo, J., M.C. Rulli, P. Marchand, and **P. D'Odorico**, 2017. "The tragedy of the grabbed commons", *World Development*, 92, 1-12, 2017. <http://dx.doi.org/10.1016/j.worlddev.2016.11.005>.
63. Guo H., C. Weaver, S. Charles, A. Whitt, S. Dastidar, **P. D'Odorico**, J.D. Fuentes, J.S. Kominoski, A. R. Armitage and S. C. Pennings, 2017, "Coastal regime shifts: Rapid responses of coastal wetlands to changes in mangrove cover", *Ecology*, 98(3), 762–772.
64. Ratajczak, Z., **D'Odorico, P.**, Collins, S. L., Bestelmeyer, B. T., Isbell, F. I. and Nippert, J. B., 2017. "The interactive effects of press/pulse intensity and duration on regime shifts at multiple scales". *Ecol Monogr.* 87(2), 2017, pp. 198–218, doi:10.1002/ecm.1249.
65. Ratajczak, Z., K. Yu, and **P. D'Odorico**, 2017. "The enemy of my enemy hypothesis: why coexisting with grasses may be an adaptive strategy for savanna trees". *Ecosystems*, 20(7): 1278–1295, doi:10.1007/s10021-017-0110-7.
66. Ratajczak, Z., **P. D'Odorico**, J.B. Nippert, S. Collins, N.A. Brunsell, S. Ravi, 2017. "Changes in spatial variance during a grassland to scrubland state transition". *J. Ecol.*, 105(3), 750-760, <http://dx.doi.org/10.1111/1365-2745.12696>.

67. Davis, K.F., M.C. Rulli, F. Garrassino, A. Seveso, and **P. D'Odorico**, "Water limits to closing yield gaps", *Adv. Water Resour.*, 99, 67-75, 2016. [*]
68. Yu, K., M.J. Saha, and **P. D'Odorico**, "The effects of interannual rainfall variability on tree/grass composition along Kalahari rainfall gradient". *Ecosystems*, 20(5), 975-988, doi:10.1007/s10021-016-0086-8, 2016.[*]
69. Carr, J.A., **P. D'Odorico**, S. Suweis, D. Seekell, "What commodities and countries impact inequality in the global food system?", *Environm. Res. Lett.*, 11, 095013, doi:10.1088/1748-9326/11/9/095013, 2016.
70. Saha, MV, **P. D'Odorico**, T.M. Scanlon, "Fire Suppresses Rainfall in African Drylands", *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL069855, 2016.[*]
71. Marchand P., J. A. Carr, J. Dell'Angelo, M. Fader, J.A. Gephart, M. Kummu, N. R. Magliocca, M. Porkka, M. J. Puma, Z. Ratajczak, M. C. Rulli, D.A. Seekell, S. Suweis, A. Tavoni, **P. D'Odorico**, Reserves and trade jointly determine exposure to food supply shocks, *Environm. Res. Lett.*, 11, 095009, doi:10.1088/1748-9326/11/9/095009, 2016.
72. Bhattachan, A., I. Reche, and **P. D'Odorico**, "Soluble ferrous iron (Fe (II)) enrichment in airborne dust", *J. Geophys. Res. (Atmospheres)*, 121, doi:10.1002/2016JD025025, 2016.
73. MacDonald, G.K., **P. D'Odorico**, and D.A. Seekell, "Pathways to sustainable intensification through crop water management". *Environm. Res. Lett.*, 11, 091001, 2016.
74. Yu, K and **P. D'Odorico**, "From facilitative to competitive interactions between woody plants and plants with Crassulacean Acid Metabolism (CAM): the role of hydraulic descent", *Ecohydrology*, DOI: 10.1002/eco.1742, 2016 [*].
75. Davis, K.F., J.A. Gephart, K. A. Emery, A.M. Leach, J.N. Galloway, **P. D'Odorico**, "Meeting future crop demand with current agricultural resources: Required changes in dietary trends and production efficiencies", *Global Environmental Change*, 39, 125-132, 2016 [*].
76. Chiarelli, D.D., F.K. Davis, M.C. Rulli, **P. D'Odorico**, "Climate change and Large Scale Land Acquisitions in Africa: Quantifying the future impact on acquired water resources". *Adv. Water. Resour.* 94, 231-237, 2016.
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78. Leach, A., K.A Emery; J. Gephart; K.F. Davis; J.W. Erisman; A. Leip; M.L. Pace; **P. D'Odorico**; J. Carr; L. Cattell Noll; E. Castner; J. N. Galloway, "Environmental impact food labels combining carbon, nitrogen, and water footprints", *Food Policy*, 61, 213-223, 2016.
79. Carr, JA, **P. D'Odorico**, V. Engel, J. Redwine, "Tree island pattern formation in the Florida Everglades". *Ecological Complexity*, 26, 37-44, 2016.
80. Carr J.A., **P. D'Odorico**, K. McGlathery, and P. Wiberg, "Spatially explicit feedbacks between seagrass meadow structure, sediment and light: habitat suitability for seagrass growth", *Adv. Water Resour.* 93, 315-325, 2016.
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Teaching

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Sustainable Water and Food Security (EVSC 4995, Spring 2016), University of Virginia.

Water on Earth (EVSC 140 – Spring 2008, Spring 2009, Spring 2010), University of Virginia

Collapse of Ecosystems and Societies in a Changing World (USEM 180 – Fall 2008, 2009), University of Virginia

Physical Hydrology (EVSC 340 - 2002, 2002, 2004, 2006, 2013, 2014, 2016), University of Virginia.

Introduction to Forest Hydrology (EVSC 493 - Spring 2004, Spring 2007), University of Virginia.

Hydrological Transport Processes (EVHY 545 - 2003, 2004; 2006, 2008, 2010, 2012), University of Virginia.

Dryland Ecohydrology (EVHY 795 – Fall, 2006, Fall 2007, Fall 2009, Fall 2013)

Fluvial Hydrology (EVHY 795 - Fall 2002) , University of Virginia.

Water Sustainability (EVSC 459), University of Virginia

Forest Hydrology (EVHY 795 - Fall 2003, 2004, Spring 2006, 2008, 2010, 2012, 2013), University of Virginia.

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Surface Water Hydrology (CVEN 627 - Graduate), Texas A&M University.

Advanced Hydraulic Engineering (CVEN 628 - Graduate), Texas A&M University.