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Author of 200 papers indexed in Scopus (**75%** published with first or last name author as PI) published in international peer-reviewed journals, proceedings, and books with the following publication metrics (5 January 2025): **Google Scholar** (**h-index 61**, total citations **11916**). The papers on the mitigation strategies of soil salinization in agriculture is cited in 2024 in two official reports of EU Commission.

Ranked in the list of **world top 2% most cited scientists** since 2020: **top 0.16%** in the category *geological & geomatics engineering* (excluding self-citations), source *Elsevier BV & Stanford University*.

PUBLICATIONS

**corresponding author*

Peer-reviewed journals

2025

1. Lippa, M.N., **Tarolli***, P., Straffelini, E. (2025). Climate change impacts and the reshaping of Canadian viticulture. *iScience*, 28(3), 111941, ISSN: 2589-0042, doi: 10.1016/j.isci.2025.111941.
2. Qiu*, J., Yang, X., Zheng, Z., **Tarolli***, P. (2025). High-resolution mapping of China's flooded croplands. *Science Bulletin*, doi:10.1016/j.scib.2025.01.053.
3. Ghirardelli, A., Straffelini, E., Park, E., D'Agostino, V., Masin, R., **Tarolli***, P. (2025). *Environmental Research Letters*, 20, 013005, ISSN: 1748-9326, doi:10.1088/1748-9326/ad9bcd.
4. Li, X., Zhu, J., Lyu, X., Sun, Y., Tan, C., Zhang, B., **Tarolli**, P., Yang*, Q. (2025). An integrative conservation and management strategy based on biological and cultural diversity assessment: A case study of Miaoling mountainous region, China. *Ecological Indicators*, 171, 113187, ISSN: 1470-160X, doi: 10.1016/j.ecolind.2025.113187.
5. Zheng, H., Miao*, C., Huntingford, C., **Tarolli**, P., Li, D., Panagos, P., et al. (2025). The impacts of erosion on the carbon cycle. *Reviews of Geophysics*, 63, e2023RG000829 ISSN: 1944-9208, doi: 10.1029/2023RG000829.
6. Verdonen*, M., Villoslada, M., Kolari T.H.M., Tahvanainen, T., Korpelainen, P., **Tarolli**, P., Kumpula, T. (2025). Spatial Distribution of Thaw Depth in Palsas Estimated From Optical Unoccupied Aerial Systems Data. *Permafrost and Periglacial Processes*, 36(1), 22-36, ISSN: 1045-6740, doi:10.1002/ppp.2252.
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9. **Tarolli*, P.**, Luo, J., Park, E., Barcaccia, G., Masin, R. (2024). Soil salinization in agriculture: Mitigation and adaptation strategies combining nature-based solutions and bioengineering. *iScience*, 27, 108830. ISSN: 2589-0042, doi:10.1016/j.isci.2024.108830. ***EU Commission policy citation* *highly cited article***
 10. Luo, J., Straffellini, E., Bozzolan, M., Zheng, Z., **Tarolli*, P.** (2024). Saltwater intrusion in the Po River Delta (Italy) during drought conditions: Analyzing its Spatio-temporal evolution and potential impact on agriculture. *International Soil and Water Conservation Research*, 12, 714–23, ISSN: 2095-6339, doi: 10.1016/j.iswcr.2023.09.009.
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 16. Yang, S., Jin*, Z., Hao, M., Jiang, C., Han, H., An, Z., **Tarolli, P.** (2024). Landscape and Soil Erosion Changes Along Different Types of Road Over the Past 30 Years in the Largest Loess Tableland of China. *Land Degradation and Developments*, 35(18) 5559-5560, ISSN: 1085-3278, doi:10.1002/ldr.5315.
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34. Luo*, J., Zheng, Z., Li, T., He, S., **Tarolli, P.** (2023). Impact of tillage-induced microtopography on hydrological-sediment connectivity and its hydrodynamic understanding. *Catena*, 228, 107168, ISSN: 0341-8162, doi:10.1016/j.catena.2023.107168.
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