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Author of more than 150 papers indexed in Scopus (> 75% published with first or last name author) published or in press in international peer reviewed journals, proceedings, and books with the following publication metrics (1 June 2022): **Google Scholar (h-index 47, total citations 7409, number of articles with 100+ citations 19, with 200+ citations 8, with 300+ citations 4, with 400+ citations 1), SCOPUS (h-index 40, total citations 5407; average 8.8 papers/yr and 318 citations/yr, in the last 5 years 2017-2021 17 papers/yr and 749 citations/yr)**. He is also author of 11 papers in national magazines, 2 chapters in Encyclopaedia, 18 papers/chapters in books, 25 papers in conference proceedings, and 198 presentations (11 invited talks) at national/international meetings (63 orals, 20 virtual online, and 115 posters). He edited three books.

Ranked in the list of **100,000 top world's most cited scientists: rank no. 87939** for career in all disciplines (**top 0.65%** in the category *geological & geomatics engineering*); **rank no. 17402** in all disciplines for single year 2020 (**top 0.27%** in the category *geological & geomatics engineering* excluding self-citations), source Elsevier BV & Stanford University)

## PUBLICATIONS

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### Peer-reviewed Journals

#### 2022

1. Wang, W., Pijl, A., **Tarolli\***, P. (2022). Future climate-zone shifts are threatening steep-slope agriculture. *Nature Food*, 3, 193–196, ISSN: 2662-1355, doi:10.1038/s43016-021-00454-y. **\*media impact\***
2. Straffelini\*, E., Pijl, A., Otto, S., Marchesini, E., Pitacco, A., **Tarolli, P.** (2022). A high-resolution physical modelling approach to assess runoff and soil erosion in vineyards under different soil managements. *Soil and Tillage Research*, 222, 105418, ISSN: 0167-1987, doi:10.1016/j.still.2022.105418.
3. Luo, J., Wang, N., Zheng\*, Z., Tingxuan, L., He, S., **Tarolli, P.** (2022). Tillage-induced microtopography alters time-dependent intrinsic correlation of runoff and sediment yield. *Soil and Tillage Research*, 221, 105423, ISSN: 0167-1987, doi:10.1016/j.still.2022.105423.
4. Cucchiario\*, S., Carretta, L., Nasta, P., Cazorzi, F., Masin, R., Romano, N., **Tarolli, P.** (2022). Multi-temporal geomorphometric analysis to assess soil erosion under different tillage practices: A methodological case study. *Journal of Agricultural Engineering*, 53, 1279, ISSN: 1974-7071, doi:10.4081/jae.2022.1279.
5. Mauri\*, L., Straffelini, E., **Tarolli, P.** (2022). Multi-temporal modeling of road-induced overland flow alterations in terraced landscape characterized by shallow landslides. *International Soil and Water Conservation Research*, 10, 240–253, ISSN: 2095-6339, doi:10.1016/j.iswcr.2021.07.004. **\*outstanding paper award by WASWAC\***

6. Pijl, A., Wang, W., Straffelini, E., **Tarolli\*, P.** (2022). Soil and water conservation in terraced and non-terraced cultivations: an extensive comparison of 50 vineyards. *Land Degradation & Development*, 33, 596–610, ISSN: 1085-3278, doi:10.1002/ldr.4170.
7. Silvestri\*, S., Capra, V., Cucchiario, S., Pivato, M., **Tarolli, P.** (2022). Tides, Topography, and Seagrass Cover Controls on the Spatial Distribution of *Pinna nobilis* on a Coastal Lagoon Tidal Flat. *Journal of Geophysical Research: Biogeosciences*, 127, e2021JG006667, ISSN: 2169-8953, doi:10.1029/2021JG006667.

#### 2021

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9. Zhao\*, P., Fallu, D. J., Cucchiario, S., **Tarolli, P.**, Waddington, C., Cockcroft, D., Snape, L., Lang, A., Doetterl, S., Brown, A. G., Van Oost, K. (2021). Soil organic carbon stabilization mechanisms and temperature sensitivity in old terraced soils. *Biogeosciences*, 18, 6301–6312, ISSN: 1726-4170, doi:10.5194/bg-18-6301-2021.
10. Mărgărint, M. C., Niculiță\*, M., Roder, G., **Tarolli, P.** (2021). Risk perception of local stakeholders on natural hazards: implications for theory and practice, *Nat. Hazards Earth Syst. Sci.*, doi:10.5194/nhess-2021-37.
11. Cucchiario\*, S., Paliaga, G., Fallu, D.J., Pears, B., Walsh, K., Zhao, P., Van Oost, K., Snape, L., Lang, A., Brown, T., **Tarolli, P.** (2021). Volume estimation of soil stored in agricultural terrace systems: A geomorphometric approach. *Catena*, 207, 105687, doi:10.1016/j.catena.2021.105687.
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16. Qiu, J., Cao, B., Park, E., Yang\*, X., Zhang, W., **Tarolli, P.**, 2021. Flood Monitoring in Rural Areas of the Pearl River Basin (China) Using Sentinel-1 SAR. *Remote Sensing* 13, 1384, doi:10.3390/rs13071384.
17. Ghirardelli, A., **Tarolli\*, P.**, Rajasekaran, M.K., Mudbhatkal, A., Macklin, M.G., Masin, R. (2021). Organic contaminants in Ganga basin: from the Green Revolution to the emerging concerns of modern India. *iScience*, 24, 102122, 10.1016/j.isci.2021.102122. ([Invited Review Article](#))
18. Brown\*, T., Fallu, D., Walsh, K., Cucchiario, S., **Tarolli, P.**, Zhao, P., Pears, B., van Oost, K., Snape, L., Lang, A., Albert, R.-M., G. Alsos, I.G., Waddington, C. (2021). Ending the Cinderella Status of Terraces and Lynchets in Europe: The Geomorphology of Agricultural Terraces and Implications for Ecosystem Services and Climate Adaptation. *Geomorphology*, 379, 107579, doi:10.1016/j.geomorph.2020.107579. ([Invited Review Article](#))
19. Pijl\*, A., Quarella, E., Vogel, T.A., D'Agostino, V., **Tarolli, P.** (2021). Remote sensing vs. field-based monitoring of agricultural terrace degradation. *International Soil and Water Conservation Research*, 9, 1–10, doi:10.1016/j.iswcr.2020.09.001.
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22. Zhang, Q., Wu, Z., Guo, G., Zhang, H., **Tarolli\*, P.** (2021). Explicit the urban waterlogging spatial variation and its driving factors: The stepwise cluster analysis model and hierarchical partitioning analysis approach. *Science of The Total Environment*, 763, 143041, doi:10.1016/j.scitotenv.2020.143041.
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33. Mauri\*, L., Masin, R., **Tarolli, P.** (2020). Wildlife impact on cultivated lands: A multi-temporal spatial analysis. *Agricultural Systems*, 184, 102890, doi:10.1016/j.agry.2020.102890.
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36. Borsato\*, E., Rosa, L., Marinello, F., **Tarolli, P.**, D'Odorico, P (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.
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40. Zhao\*, W., Ding, J., Wang, Y., Jia, L., Cao, W., **Tarolli, P.** (2020). Ecological water conveyance drives human-water system evolution in the Heihe watershed, China. *Environmental Research*, 182, 109009, doi: 10.1016/j.envres.2019.109009.

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42. Du\*, J., Watts, J.D., Lu, H., Jiang, L., **Tarolli, P.** (2019). Editorial for Special Issue: "Remote Sensing of Environmental Changes in Cold Regions". *Remote Sensing*, 11, 2165, doi:10.3390/rs11182165 [\(Special Issue Editorial\)](#)
43. Du, J., Watts, J.D., Jiang\*, L., Lu, H., Cheng, X., Duguay, C., Farina, M., Qiu, Y., Kim, Y., Kimball, J.S., **Tarolli, P.** (2019). Remote Sensing of Environmental Changes in Cold Regions: Methods, Achievements and Challenges. *Remote Sensing*, 11, 1952, doi:10.3390/rs11161952 [\(Review Article\)](#)

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  46. Wu\*, J., Song, M., Ma, W., Zhang, X., Shen, Z., **Tarolli, P.**, Wurst, S., Shi, P., Ratzmann, G., Feng, Y., Li, M., Wang, X., Tietjen, B. (2019). Plant and soil's  $\delta^{15}\text{N}$  are regulated by climate, soil nutrients, and species diversity in alpine grasslands on the northern Tibetan Plateau. *Agriculture, Ecosystems and Environment*, 281, 111 – 123, doi:10.1016/j.agee.2019.05.011.
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  52. **Tarolli\*, P.**, Cavalli, M., Masin, R., (2019). High-resolution morphologic characterization of conservation agriculture. *Catena*, 172, 846–856, doi:10.1016/j.catena.2018.08.026.
  53. **Tarolli\*, P.**, Cao, W., Sofia, G., Evans, D., Ellis, EC. (2019). From features to fingerprints: a general diagnostic framework for anthropogenic geomorphology. *Progress in Physical Geography*, 43, 95–128, doi: 10.1177/0309133318825284.
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66. Wang, J., Wu\*, Z., Wu, C., Cao, Z., Fan, W., **Tarolli, P.** (2018). Improving impervious surface estimation: an integrated method of classification and regression trees (CART) and linear spectral mixture analysis (LSMA) based on error analysis. *GIScience and Remote Sensing*, 55, 583–603, doi: 10.1080/15481603.2017.1417690.
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