

PAPERS IN INTERNATIONALLY REVIEWED JOURNALS

- [10] **Raab G.**, Egli M., Norton K., Dahms D., Brandová D., Christl M., Scarciglia F. (2019). Climate and relief-induced controls on the temporal variability of denudation rates in a granitic upland. *Earth Surface Processes and Landforms*. DOI: 10.1002/esp.4681
- [9] Yu F., Hunt A., Egli M., **Raab G.** (2019). Comparison and contrast in soil depth evolution for steady-state and stochastic erosion processes: Possible implications for landslide prediction. *Geochemistry, Geophysics, Geosystems* 20. DOI: 10.1029/2018GC008125
- [8] Egli M., Hunt A., Dahms D., **Raab G.**, Derungs C., Raimondi S., Yu F. (2018). Prediction of soil formation as a function of age using the percolation theory approach. *Front. Environ. Sci.* **6**: 108. DOI: 10.33689/fenvs.2018.00108
- [7] **Raab G.**, Scarciglia F., Norton K., Dahms D., Brandová D., Portes R., Christl M., Ketterer M.E., Ruppli A. & Egli M. (2018). Denudation Variability of the Sila Massif Upland (Italy) from decades to millennia using ^{10}Be and $^{239+240}\text{Pu}$. *Land Degradation and Development*. Special issue. 1-17. DOI: 10.1002/ldr.3120
- [6] Portes R., Dahms D., Brandová D., **Raab G.**, Christl M., Kühn P., Ketterer M. & Egli M. (2018). Evolution of soil erosion rates in alpine soils of the Central Rocky Mountains using fallout Pu and $\delta^{13}\text{C}$. *Earth and Planetary Science Letters* **496**: 258-269. DOI: 10.1016/j.epsl.2018.06.002
- [5] Ganyushkin D., Chistyakov K., Volkov I., Bantcev D., Kunaeva E., Brandova D., **Raab G.**, Christl M., & Egli M. (2018). Palaeoclimate, glacier and treeline reconstruction based on geomorphic evidences in the Mongun-Taiga massif (south-eastern Russian Altai) during the Late Pleistocene and Holocene. *Quaternary International* **470**: 26-37. DOI: 10.1016/j.quaint.2017.12.031
- [4] **Raab G.**, Halpern D., Scarciglia F., Raimondi S., Norton K.P., Pettke T., Hermann J., de Castro Portes R., Aguilar Sanchez A.M., & Egli M. (2017). Linking tephrochronology and soil characteristics in the Sila and Nebrodi Mountains, Italy. *Catena* **158**: 266-285. DOI: 10.1016/j.catena.2017.07.008
- [3] Egli M., Hafner S., Derungs C., Ascher-Jenull J., Camin F., Sartori G., **Raab G.**, Bontempo L., Paolini M., Ziller L., Bardelli T., Bardelli, T., Petrillo M. & Abiven S. (2016). Decomposition and stabilisation of Norway spruce needle-derived material in Alpine soils using a ^{13}C -labelling approach in the field. *Biogeochemistry* **131(3)**: 321-338. DOI: 10.1007/s10533-016-0281-

- [2] Höllen D., Klammer D., Letofsky-Papst I., **Raab G.**, & Dietzel M. (2016). Synthesis of hierarchically structured materials: microporous diatoms and nanoporous hydroxyaluminosilicate. *Nanotechnology for Environmental Engineering* **1(1)**: 9. DOI: 10.1007/s41204-016-0009-0
- [1] Mogessie A., Hauzenberger C., Raic S., Schantl P., Belohlavek L., Ciriello A., Daghighi D., Fercher B., Goetschl K., Graber H., Mandl M., Preissegger V., **Raab G.**, Rauschenbusch F., Sattler T., Schorn S., Simic K., Wedenig M., Wiesmair S., Melcher F., Prochaska W., Mali H., Binder H., Dietmayer-Kräuter M., Friedman C., Haas M.M., Hampl F.J., Hanke G.E., Hasenburger W., Kaltenbock H.M., Onuk P., Pamsl A.R., Pongratz K., Schifko T., Schilli S.E., Schwabl S., Tauchner C., Wallner D., & Hentsche J. (2015). A Geological Excursion to the Mining Areas of South Africa. *Mitt.Österr.Miner.Ges.* **161**: 175-219.

BOOKS & PUBLIC ARTICLES

- [2] **Raab G.** Ice on a stick in soil research. June 24th 2019. Featured papers, Department of Geography, University of Zurich. <https://www.geo.uzh.ch/en/events/featured-papers/2019-06-19-ice-on-a-stick.html>
- [1] Stüwe K., **Raab G.**, Rauschenbusch F., Piller E.W., & Claus P. (2015). Eine Geo-Reise durch Grönland. Weishaupt Verlag.

THESES & CONFERENCE CONTENT

- [14] Raab G. (2020). The Tor Exhumation Approach (TEA) – Dealing with continuous and reversed exhumation patterns to determine surface denudation rates. Swiss Geoscience Meeting. Online
Talk
- [13] Raab G., Egli M, Martin AP, Norton NP, Lukens C, Ketterer ME, Wanner R, Scarciglia F. (2020). Aeolian soil erosion assessment ($^{239+240}\text{Pu}$) within a dry-oceanic area (Otago, New Zealand). Swiss Geoscience Meeting. Online
Talk
- [12] Raab G., Martin AP, Norton NP, Christl M, Scarciglia F. Egli M. (2020). Subsidence or uplift stage? Surface denudation variations of the Otago upland (New Zealand). Swiss Geoscience Meeting. Online
Talk
- [11] Raab G., Scarciglia F., Norton KP., Martin A., Christl M., Ketterer M., Egli M. (2019). Surface Denudation and Soil Erosion over 300 ka at the Otago Upland (New Zealand) using ^{10}Be and $^{239+240}\text{Pu}$. EGU. Online.
Talk
- [10] Raab G. (2019). The Tor Exhumation Approach – A New Technique to Derive Continuous In-Situ Soil Erosion and Surface Denudation Models. Dissertation. DOI:10.13140/RG.2.2.29904.87043
Thesis

- [10] Raab G. (Convener), Francesca Calitri, Marcus Schiedung. (2019).
Talk Visualizing Science. EGU. Vienna. Austria
- [9] Raab G., Scarciglia F., Norton K., Dahms D., Brandova D., de Castro Portes R., Christl M., Egli M. (2019). Going beyond average rates – Identifying responsible drivers for temporal and spatial denudation variations using in-situ ^{10}Be on a variety of granitic landscape features. EGU. Vienna. Austria
Poster
- [8] Raab G., Scarciglia F., Norton K., Dahms D., Brandova D., de Castro Portes R., Christl M., Ketterer E.M., Egli M. (2018). Modelling soil erosion dynamics over millennia using granite landforms, in-situ ^{10}Be and $^{239+240}\text{Pu}$. The second international young scientists' forum on soil and water conservation and ICCE symposium. Moscow. Russia.
Talk
- [7] Raab G. (2018). A story of granite landforms and surface denudation variations. Young Geomorphologist meeting. Stadtoldendorf. Germany
Talk
- [6] Raab G., Scarciglia F., Norton K., Dahms D., Brandova D., de Castro Portes R., Christl M., Ketterer E.M., Ruppli A., Egli M. (2018). Using granite landforms to decrypt soil erosion variations over millennia with in-situ ^{10}Be and $^{239+240}\text{Pu}$. EGU. Vienna. Austria
Poster
- [5] Raab G., Ruppli A., Brandova D., Scarciglia F., Norton K.P., Christl M. & Egli M. (2017). Deciphering Landscape Archives of the Sila Massif by linking ^{10}Be & $^{239/240}\text{Pu}$. Goldschmidt. Paris. France
Talk
- [4] Raab G., Ruppli A., Brandova D., Scarciglia F., Norton K.P., Christl M. & Egli M. (2017). Tracing Landscape Evolution of the Sila Massif using ^{10}Be . EGU. Vienna. Austria
Poster
- [3] Raab G., Halpern D., Scarciglia F., Raimondi S., de Castro Portes R., Norton K.P., & Egli M. (2017). Linking tephrochronology and soil characteristics in the Sila and Nebrodi Mountains, Italy. EGU. Vienna. Austria
Talk
- [2] Raab G. (2015). Magmatic, Metamorphic and Tectonic Evolution of the Seckau Complex in the Area of the Sonntagskogel Mountain (Triebener Tauern, Province of Styria). Thesis
Thesis
- [1] Raab G. (2012). Tailoring of hydrothermally altered diatomite for the removal of metal ions from waste water. Thesis
Thesis
- [0] Raab G., Ruppli A., Brandová D., Scarciglia F., Christl M., Egli M. (2016). Tracing Landscape Evolution of the Sila Massif – Surface exposure dating of boulders using ^{10}Be . Annual Report of the Ion Beam Physics ETH Zurich. Switzerland
Report