Subduction and high-pressure metamorphism of some ophiolitic units was associated with dehydration reactions and fluid release. Indeed, in the Zermatt–Saas Ophiolite, serpentine+brucite formed during Jurassic oceanic serpentinization and reacted to produce metamorphic olivine at eclogite facies conditions (Kempf et al. 2020). Fluids released by this reaction (estimated at between 3.4 and 7.2 wt% H₂O) escaped in a network of veins and shear zones.

More external continental domains of the Western Alps were buried at shallower depth (External Briançonnais, Ballèvre et al. 2020; Aar Massif, Nibourel et al. 2021). Lawsonite-bearing veins in the Guil andesites in the Queyras testify to a lower grade metamorphism (0.4 GPa, 350 °C) associated with a brittle deformation in the External Briançonnais (Ballèvre et al. 2020).

In the external domain of the Alps in the eastern Aar Massif, collisional deformation started with the activation of NNW-directed thrusts at ~26 Ma (Nibourel et al. 2021). Subsequent peak- to post-metamorphic deformation was dominated by steep, NNW-vergent reverse faults (~22–14 Ma) and was associated with large vertical displacements. Some $13\ km$ shortening and $9\ km$ exhumation occurred between $14\ Ma$ and present.

Exhumation of the Nappe Stack

Exhumation of the Alpine nappe stack was accommodated by erosion, material transport, and sediment deposition in the flysch sequences, which has now been analyzed in detail in one of the Préalpes nappes, (Ragusa et al. 2021) and by displacement along kilometre-scale Alpine faults in, for example, the Susa Shear Zone (Ghignone et al. 2020) and the Rocca Canavese Thrust Sheets (Roda et al. 2021).

Cenozoic tectonic activity during the unroofing of the Western Alps was active for more than 20 million years and was linked to top-NNW, top-WNW and top-SW thrusting associated with strike-slip faulting. Its timing is constrained by new geochronological data (~ 36 Ma, ~ 32–30 Ma, and ~ 25–23 Ma) on hydrothermal monazite in fissures formed during greenschist to amphibolite facies retrograde metamorphism in the high-pressure units of the internal Western Alps (Ricchi et al. 2020).

Daniel Marty, Chief Editor Swiss Journal of Geosciences



Daniel Marty completed a master's degree in Earth sciences at the University of Basel (Switzerland) in 2001 and his PhD in palaeontology/sedimentology at the University of Fribourg (Switzerland) in 2008 focusing on Upper Jurassic dinosaur footprints excavated on Swiss federal Highway A16 and neo-ichnological experiments with human footprints on recent tidal flats.

From 2000 to 2017, he worked as a research palaeontologist at the "Paleontology A16" (Office de la culture, Canton Jura, Switzerland), a unique palaeontological service founded in 2000 that was in charge of the excavation, documentation, and safeguarding of paleontological heritage along the future course of Highway A16. Daniel was responsible for the excavation, documentation, and scientific research of dinosaur track sites that were uncovered prior to the construction of the highway. He is still involved in research projects related to these and other dinosaur footprint discoveries in collaboration with researchers from Europe and elsewhere.

Since 2014, Daniel Marty has taught palaeontology courses at the University of Basel. In 2014, he became Chief Editor of the *Swiss Journal of Palaeontology* and in 2018 also of the *Swiss Journal of Geosciences*. Both journals are published as fully open access by SpringerOpen.

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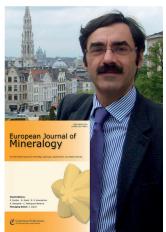
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EDITORIAL

About the Overplayed Role of Citation Indicators

The last 20 years has seen the relationship between scientists and scientific publications change dramatically. In this editorial, I will address the expanding and overplayed role of the citation indicators on the publication system. I do not speak of journal impact factors, because they deserve an editorial of their own, but I will focus on the impact of an individual paper's citation index and the challenge that this presents to editors.

Authors have all been affected by the change in value of publications, far from the genuine and simple goal of sharing scientific knowledge. We are now much more conditioned by



citation indexes than we have ever been. When I ask myself, as an author, which paper(s) I feel proudest of and which are the most important for me, several of them do not match those that are most cited. I presume that this situation is also the case for other authors and their papers. Often, authors assessing their own papers do not focus only on their potential impact in the field. They assess also the quality and completeness of the scientific approach developed. Authors take into account how the work evolved from the intuition of the hypotheses to the final demonstration of their validity.

Citation indicators basically and simply assess the visibility of a paper, which is far from being a perfect evaluation of the paper's influence or impact in the field. Notwithstanding, today more than ever, we all look at our paper citations as a form of quality indicator of our work. In addition, our careers are partly evaluated and fundamentally influenced by these citation indicators. Consequently, we allow citation indicators to influence the way authors write papers and the way reviewers evaluate them. As authors, we have (consciously or unconsciously) the tendency to over-cite our previous papers when we write a new one. As reviewers, we may have the tendency to be more favorable toward a paper that cites our articles, or even recommend authors to cite our articles. But is this unethical or a conflict of interest?

Conflict of interest is defined by the potential benefit evaluators can get from their evaluation. The strong role played today by citation indicators in career development has significantly increased the benefit we can expect from citations. As both authors and reviewers, it is our personal responsibility to assess where ethics or a conflict of interest stands when assessing and/or recommending citations. For journals, it is impossible to avoid using reviewers cited in the manuscripts if we want to get reviews from the closest experts in the field. To address this issue at the European Journal of Mineralogy (EJM), we have recently put, in our recommendation to referees, more emphasis on the relevance of the citations than their comprehensiveness. We are now asking reviewers to assess explicitly "relevance and up-to-date of the references". Editors also play an essential role in monitoring and regulating potential over-citation by an author and bias from a reviewer. Editors play a fundamental role in safeguarding fairness in the evaluation of manuscripts. Ultimately, editors are the gatekeepers of the ethical standard of a journal.

J. Ingrin Managing editor of *EJM*

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