Special Issue

Geology of Mélanges

Message from the Guest Editor

In the shallow parts of accretionary complexes, mélanges may directly originate from sedimentary mass-transport processes (sedimentary mélanges), and/or mud-diapiric processes (diapiric mélanges), being subsequently tectonically deformed at progressively deeper crustal levels (tectonic mélanges). This continuous interplay of overlapping processes leads to the development of polygenetic mélanges, widely represented in exhumed orogenic belts. Nonetheless their widespread occurrence, poor communication still lingers among specialists dealing with mass transport deposit, subsurface remobilization and studies on mélange-forming processes in the shallow subsurface. In this framework, multidisciplinary and comparative studies of “fossil” and “modern” mass transport deposits and mud diapirs identified in mountain chains and contemporary sedimentary basins, respectively, provide hard facts on long debated arguments.

The aim of this Special Issue is to outline the current and further ways of research on polyphased “chaotic” units, focusing on the earlier and shallower phases of deformation, at the various scales.

Guest Editor

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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