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Conservativeness of sediment geochemistry and selection of tracers in sediment sourcing

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A process of selection of geochemical properties based on conservativeness through processes during and after sediment transport is discussed, and then an approach combining the 'partition coefficients' of elements, that is essentially a ratio between amounts of an element in solution and a solid, and 'exclusive mixing assumption', that follows a supposition that mixed sediments are made up solely of materials from identified sources, is proposed. Some elements were unselected through the selection process probably because of their highly mobile nature and heavy density of minerals made of the element.