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Sommario/riassunto	The fluid flow in fracture porous media plays a significant role in the assessment of deep underground reservoirs, such as through CO ₂ sequestration, enhanced oil recovery, and geothermal energy development. Many methods have been employed-from laboratory experimentation to theoretical analysis and numerical simulations-and allowed for many useful conclusions. This Special Issue aims to report on the current advances related to this topic. This collection of 58 papers represents a wide variety of topics, including on granite permeability investigation, grouting, coal mining, roadway, and concrete, to name but a few. We sincerely hope that the papers published in this Special Issue will be an invaluable resource for our readers.