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Nota di contenuto	Sedimentary organic matter: origin, productivity, preservation and role in source-rock development -- Practical guide for petroleum source rock interpretation -- Source rock thermal maturity based on oxidation and pyrolysis methods -- Source rocks forward modelling: significance and approach -- Optical kerogen analysis -- Effective source-rock evaluation strategies for the identification of profitable plays in the Permian Basin, USA -- High-resolution palynostratigraphy and palynofacies of the Upper Cretaceous and K/Pg boundary, Sirt Basin, Libya: A case study -- Viability of the upper member of the Mississippian Lodgepole Formation as an economic source rock in the Williston Basin -- Integration of palynological and foraminiferal analyses toward evaluation of the hydrocarbon potential in the Orange Basin, SW Africa -- Palynofacies, organic petrography and hydrocarbon potential of the Toarcian oil shale in the Tibetan Tethys, China -- Organic facies, paleoenvironment, and hydrocarbon source potential of the Cretaceous Mancos and Gallup formations, San Juan Basin, New Mexico -- Petroleum system analysis of the main Paleozoic source

	rocks in western Iraq: A 1D basin modelling approach -- Source rock quality and continuous petroleum system in the Ranikot Formation (Kirthar Foldbelt, Pakistan) based on principal organic geochemistry -- Egyptian Red Sea unconventional resource potential of the Upper Cretaceous-Paleogene black shales.
Sommario/riassunto	This book is directed to those who are interested in petroleum geology, especially source rock from both academia and industrial societies. Our chapter-based book is written by a list of world-class subject-matter experts. The book includes recent advancements in analytical source rock characterization methods with some case studies. It is also used as part of a course curriculum or guide for source rock interpretation for all researcher categories. Significant improvement in the source rock characterization techniques in the last two decades and the knowledge is disseminated in a huge amount of papers and studies. The book intends to collect these recent advancements in one textbook to benefit students and researchers in general. In addition, it is supplemented by many case studies from all over the world that represent important data sets for the regional geology of these areas.