

1. Record Nr.	UNINA9910760275003321
Autore	Ostadhassan Mehdi <1983->
Titolo	Advanced Methods in Petroleum Geochemistry [[electronic resource] /] / by Mehdi Ostadhassan, Bodhisatwa Hazra
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-44405-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (129 pages)
Collana	SpringerBriefs in Petroleum Geoscience & Engineering, , 2509-3134
Disciplina	551.9
Soggetti	Cogeneration of electric power and heat Fossil fuels Engineering geology Geotechnical engineering Fluid mechanics Fossil Fuel Geoengineering Geotechnical Engineering and Applied Earth Sciences Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Petroleum Geochemistry -- Analytical Methods and Advancements -- AFM-IR and s-SNOM -- RAMAN and Chemical Mapping -- Mass Spectroscopy -- NMR Relaxometry.
Sommario/riassunto	This brief presents recent developments and new methodologies in the area of petroleum geochemistry, including innovative unconventional analytical methods such as Raman, NMR and XPS spectroscopy that are based on advanced analytical chemistry and recently developed instrumentation. It discusses delineating mechanisms for petroleum generation, expulsion, migration and accumulation in reservoirs from the source rock. This brief provides data, illustrations and detailed explanation of each method discussed, as well as data collection, interpretation of the results and intercorrelated characteristics of different case studies from a variety of samples. Geologists, engineers, and graduate students interested in the petroleum industry will all find

the book valuable.
