

1. Record Nr.	UNINA9910366647603321
Titolo	Total petroleum hydrocarbons: environmental fate, toxicity, and remediation
Pubbl/distr/stampa	Atlanta, GA, : Springer International Publishing
ISBN	3-030-24035-5
Edizione	[1st Edition 2020]
Descrizione fisica	1 online resource (278 p.)
Altri autori (Persone)	KuppusamySaranya MaddelaNaga Raju MegharajMallavarapu VenkateswarluKadiyala
Disciplina	628.529
Soggetti	Environmental chemistry Environmental Law Pollution Refuse and refuse disposal
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>The term "total petroleum hydrocarbons" (TPHs) is used for any mixture of several hundred hydrocarbons found in crude oil, and they represent the sum of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons. The petrol-range organics include hydrocarbons from C6 to C10, while diesel-range organics are C10-C28 hydrocarbons. Environmental pollution by petroleum hydrocarbons is one of the major global concerns, particularly in oil-yielding countries. In fact, there are more than five million potentially contaminated areas worldwide that represent, in general, a lost economic opportunity and a threat to the health and well-being of humans and the environment. Petroleum-contaminated sites constitute almost one-third of the total sites polluted with chemicals around the globe. The land contamination caused by industrialization was recognized as early as the 1960s, but less than a tenth of potentially contaminated lands have been remediated due to the nature of the contamination, cost, technical impracticability, and insufficient land legislation and enforcement. This</p>

book is the first single source that provides comprehensive information on the different aspects of TPHs, such as sources and range of products, methods of analysis, fate and bioavailability, ecological implications including impact on human health, potential approaches for bioremediation such as risk-based remediation, and regulatory assessment procedures for TPH-contaminated sites. As such, it is a valuable resource for researchers, graduate students, technicians in the oil industry and remediation practitioners, as well as policy makers.
