

1. Record Nr.	UNINA9910826516803321
Titolo	The chemistry and biology of volatiles // editor, Andreas Herrmann
Pubbl/distr/stampa	Hoboken, : Wiley, 2010
ISBN	9786612777073 9781119956983 1119956986 9781282777071 1282777076 9780470669532 0470669535 9780470669556 0470669551
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (430 p.)
Disciplina	612/.0157
Soggetti	Volatile organic compounds Organic compounds
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Chemistry and Biology of Volatiles; Contents; Foreword; List of Contributors; Acknowledgements; Abbreviations; 1 Volatiles - An Interdisciplinary Approach; 2 Biosynthesis and Emission of Isoprene, Methylbutanol and Other Volatile Plant Isoprenoids; 3 Analysis of the Plant Volatile Fraction; 4 Plant Volatile Signalling: Multitrophic Interactions in the Headspace; 5 Pheromones in Chemical Communication; 6 Use of Volatiles in Pest Control; 7 Challenges in the Synthesis of Natural and Non-Natural Volatiles; 8 The Biosynthesis of Volatile Sulfur Flavour Compounds 9 Thermal Generation of Aroma-Active Volatiles in Food 10 Human Olfactory Perception; 11 Perfumery - The Wizardry of Volatile Molecules; 12 Microencapsulation Techniques for Food Flavour; 13 Profragrances and Properfumes; 14 Reactions of Biogenic Volatile Organic Compounds in the Atmosphere; Index

## Sommario/riassunto

""Coming to a conclusion, this wonderful, informative and very interesting book presents an excellent overview of small volatile organic compounds and their role in our life and environment. Really fascinating is the entirety of scientific disciplines which were addressed by this book."" -Flavour and Fragrance Journal, 2011 ""... this book deserves to be a well-used reference in the library of any laboratory specialising in VOC"". -Chemistry World, 2011 Volatile compounds are molecules with a relatively low molecular weight allowing for an efficient evaporation into t

---