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Titolo	Photocatalysis and water purification [[electronic resource] ] : from fundamentals to recent applications / / edited by Pierre Pichat
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Altri autori (Persone)	PichatPierre
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Fundamentals : active species, mechanisms, reaction pathways -- pt. II. Improving the photocatalytic efficacy -- pt. III. Effects of photocatalysis on natural organic matter and bacteria -- pt. IV. Modeling, reactors, pilot plants.
Sommario/riassunto	From the fundamentals to recent developments, this book introduces scientists and engineers to photocatalysis and demonstrates its potential for improving water quality. It also points out strategies to increase the photocatalytic efficacy: synthesis of better photocatalysts, combination of photocatalysis with other technologies, and the correct design of photocatalytic reactors. Applications and a chapter on design approaches for photocatalytic reactors round off the book.A must-have read for materials scientists, water chemists, environmental scientists and chemical engineers, whether es