1. Record Nr. UNINA9910791729903321

Titolo	A new sight towards dye-sensitized solar cells [[electronic resource]] : material and theoretical / / edited by Hong Lin
Pubbl/distr/stampa	Stafa-Zurich ; ; Enfield, N.H., : Trans Tech Publications, c2011
ISBN	3-03813-488-0
Descrizione fisica	1 online resource (137 p.)
Collana	Key engineering materials, , 1013-9826 ; ; 451
Altri autori (Persone)	LinHong
Disciplina	621.31/244
Soggetti	Dye-sensitized solar cells
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Special topic volume with invited peer reviewed papers only."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	A New Sight towards Dye-sensitized Solar Cells: Material and Theoretical; Preface; Table of Contents; Dye-Sensitized Solar Cells Built on Plastic Substrates by Low-Temperature Preparation of Semiconductor Films; Dye-Sensitized Solar Cells Based on Nitrogen-Doped Titania Electrodes; Porphyrins as Potential Sensitizers for Dye-Sensitized Solar Cells; Investigation of PEO-Imidazole Ionic Liquid Oligomer and Polymer Electrolytes for Dye-Sensitized Solar Cells; Research Progress of the Counter Electrode in Dye-Sensitized Solar Cells Efficiency of Electron Injection in Dye-Sensitized Semiconductor FilmsCharge Transport and Interfacial Charge Transfer in Dye-Sensitized Nanoporous Semiconductor Electrode Systems; Electron Transportation and Recombination in TiO2 Film for Flexible Dye-Sensitized Solar Cell; Keywords Index; Authors Index
Sommario/riassunto	Dye-sensitized solar cell (DSC) technology is emerging, against the current background of drastic consumption-rates of irreplaceable natural resources, as the Cinderella solution to many energy-related problems, Almost since its first appearance, it has been regarded as being the most promising alternative to conventional silicon solar cell technology due to the tremendous advantages of low cost and high theoretical energy-conversion efficiency. Review from Book News Inc.: Eight invited and peer-reviewed papers comprise this special-topic volume on a possible alternative to conventional silico

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Record Nr.	UNINA9910298364403321
Autore	Gorokhovski Vikenti
Titolo	Effective Parameters of Hydrogeological Models / / by Vikenti Gorokhovski
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-03569-X
Edizione	[2nd ed. 2014.]
Descrizione fisica	1 online resource (193 p.)
Collana	Springer Hydrogeology, , 2364-6454
Disciplina	551.4 551.48015118
Soggetti	Hydrogeology Hydrology Engineering design Geotechnical engineering Hydrology/Water Resources Engineering Design Geotechnical Engineering & Applied Earth Sciences
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.
Nota di contenuto	From the Contents: Introduction -- Engineering Approach -- Geostatistical Approach -- Model Identification -- Transformation of Geological Objekts' Properties into Effective Model Parameters -- Examples of Liner Transforming Mechanisms -- Examples of Non-Linear Transforming Mechanisms -- Evaluation of Transforming Mechanisms -- Inverse Problems and Transforming Mechanisms -- Convection Solute Transport through Porous Media.
Sommario/riassunto	Geological models used in predictive hydrogeological modeling are not exact replicas of the objects they represent: many details related to structures and properties of the objects remain unknown. Those details may considerably affect simulation results. A provable evaluation of the uncertainty of hydrogeological and solute transport simulations are almost impossible. In this book, the author describes how to obtain the best-possible results in simulations, based on the available data and predefined criteria that are turned into transforming mechanisms. The

latter are mathematical expressions for evaluating model parameters supporting effective simulations. Examples of the mechanisms as well as methods of their evaluation are provided in this book. It is also shown how these mechanisms can be used for the interpretation of hydrogeological data. The first edition of this book was published in the series SpringerBriefs in Earth Sciences.