

1. Record Nr.	UNINA9910462861003321
Autore	Wang Zhi Yuan
Titolo	Near-infrared organic materials and emerging applications // Zhi Yuan Wang
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , 2013
ISBN	0-429-19232-0 1-4398-6194-3
Descrizione fisica	1 online resource (183 p.)
Disciplina	621.36/2
Soggetti	Infrared technology - Materials Organic compounds - Spectra Near infrared spectroscopy Electronic books.
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	ch. 1. Introduction -- ch. 2. Molecular design and energy gap tuning -- ch. 3. Near-infrared organic compounds -- ch. 4. Near-infrared absorbing polymers -- ch. 5. Emerging applications of near-infrared organic materials.
Sommario/riassunto	Highlighting emerging applications of near-infrared (NIR) organic materials that are currently receiving great attention due to their potential use in optical communications, biomedicine, and camouflage materials, this cutting-edge book reviews important recent advances in an accessible style suitable for researchers and graduates in the field on organic/polymer solar cells, optical communications, and advanced optoelectronics. A beacon in the field literature, this comprehensive work discusses several areas of research and development including thermal control and emission detectors in which new materials are needed that can absorb, emit, and interact with NIR light--