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| 1. Record Nr.           | UNICAMPANIAVAN0041377  |
| Autore                  | Marino, Gabriele <1937->   |
| Titolo                  | Gabriele Marino / Franco Solmi ; antologia critica, biografia e bibliografia: Livio Ceccarelli ; traduzioni di Carla Carucci, Pietro Russi, Armando Zona   |
| Pubbl/distr/stampa      | 102 p., : ill. ; 21 cm   |
| Edizione                | [Salerno : Editorial Staff, c1987]   |
| Descrizione fisica      | Compl. del tit. e testi anche in inglese   |
| Lingua di pubblicazione | Italiano   |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| 2. Record Nr.           | UNINA9910974789303321  |
| Autore                  | Yu Lixin <1972->   |
| Titolo                  | Development of luminescence properties of Eu3+-doped nanosized materials // Lixin Yu   |
| Pubbl/distr/stampa      | Hauppauge, N.Y., : Nova Science Publishers, c2011  |
| ISBN                    | 1-61761-029-1  |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (66 p.)  |
| Collana                 | Nanotechnology science and technology  |
| Disciplina              | 620.1/1295   |
| Soggetti                | Phosphors<br>Nanocrystals - Materials<br>Europium - Optical properties<br>Luminescence   |
| 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       | Light-induced changes of CT band of Eu3+ doped nanocrystals -- Site symmetry of Eu3+ doped nanocrystals -- The dynamic processes of Eu3+ doped nanocrystals -- Thermal quenching preproperties of Eu3+ |

doped nanocrystals -- The UCL of  $\text{Eu}^{3+}$  in oxide nanocrystal --  
Spectral hole burning -- Core-shell nanopcomposites doped with  $\text{Eu}^{3+}$   
-- The luminescence of  $\text{Eu}^{2+}$  in nanocrystals.

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## Sommario/riassunto

It is well known that the reduction of nanocrystal size can result in the important modification of their properties in comparison with bulk materials because of the surface effect and size effect. Moreover, because  $\text{Eu}^{3+}$  ions are hypersensitive to the local microstructures, they can be used as fluorescent probes to search the local environment around  $\text{Eu}^{3+}$  ions. Thus,  $\text{Eu}^{3+}$  doped nanomaterials exhibit unique luminescent properties, which are different from the micrometer hosts. This book discusses the recent developments of photoluminescent properties of  $\text{Eu}^{3+}$  in different hosts.

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