1. Record Nr. UNISA996389240403316

Autore	Colvill William <d. 1675.>
Titolo	The righteous branch growing out of the root of Jesse and healing the nations [[electronic resource]] : held forth in several sermons upon Isai. chap. 11, from vers. 1 to 10 : together with some few sermons relating to all who live under the shadow of the branch / / by William Colvill
Pubbl/distr/stampa	Edinburgh, : Printed by George Swintoun, James Glen, and Thomas Brown, 1673
Descrizione fisica	[14], 416 p
Soggetti	Sermons, English - 17th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reproduction of original in the Union Theological Seminary Library, New York.
Sommario/riassunto	eebo-0160

2. Record Nr. UNINA9910437974703321

Autore	Steger Michael
Titolo	Transition-metal defects in Silicon : new insights from photoluminescence studies of highly enriched 28-Si / / Michael Steger
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2013
ISBN	1-299-40843-5 3-642-35079-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (107 p.)
Collana	Springer theses
Disciplina	537.6 537.6223
Soggetti	Semiconductors - Defects Silicon
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	Introduction and Background -- History of the Observed Centres in Silicon -- Experimental Method -- Results -- Discussion and Conclusion.
Sommario/riassunto	The fundamental properties of deep luminescence centres in Si associated with transition metals such as Cu, Ag, Au, and Pt have been a focus of interest for decades, both as markers for these deleterious contaminants, and also in the quest for efficient Si-based light emission. This dissertation presents the results of ultra-high resolution photoluminescence studies of these centres in specially prepared, highly enriched 28-Si samples. The greatly improved spectral resolution due to this enrichment led to the discovery of isotopic fingerprints. These fingerprints have revealed that the detailed constituents of all of the centres previously studied had been identified incorrectly. They also revealed the existence of several different families of impurity complexes containing either four or five atoms chosen from Li, Cu, Ag, Au, and Pt. These centres' constituents have been determined, together with no-phonon transition energies, no-phonon isotope shifts, local vibrational mode energies, and the isotope shifts of the local vibrational mode energies. The data presented here for these centres should prove useful for the currently sought

theoretical explanations of their formation, stability, and properties.