

1. Record Nr.	UNINA9910267952303321
Titolo	America's best graduate schools // U.S. News & World Report
Pubbl/distr/stampa	Washington, DC, : U.S. News and World Report, 2003-
Descrizione fisica	1 online resource
Disciplina	378
Soggetti	Universities and colleges - United States - Graduate work Business education - United States Medical colleges - United States Law schools - United States Engineering schools - United States Education - Study and teaching (Graduate) - United States Business education Education - Study and teaching (Graduate) Engineering schools Law schools Medical colleges Universities and colleges - Graduate work Universities Education, Graduate Schools, Medical Serial publications. Directory Directories. United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	At head of title: U.S. news & world report.

2. Record Nr.	UNINA9910484164303321
Autore	Bohn Bernhard Johann
Titolo	Exciton Dynamics in Lead Halide Perovskite Nanocrystals : Recombination, Dephasing and Diffusion // by Bernhard Johann Bohn
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
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Descrizione fisica	1 online resource (XXII, 152 p. 62 illus., 58 illus. in color.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190- 5061
Disciplina	621.38152
Soggetti	Nanoscience Photovoltaic power generation Optical spectroscopy Nanoparticles Electronics - Materials Optical materials Nanophysics Photovoltaics Optical Spectroscopy Electronic Materials Optical Materials
Lingua di pubblicazione	Inglese
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Nota di contenuto	Introduction -- Fundamentals -- Materials and Methods -- Recombination -- Dephasing -- Diffusion.
Sommario/riassunto	Less than a decade ago, lead halide perovskite semiconductors caused a sensation: Solar cells exhibiting astonishingly high levels of efficiency. Recently, it became possible to synthesize nanocrystals of this material as well. Interestingly; simply by controlling the size and shape of these crystals, new aspects of this material literally came to light. These nanocrystals have proven to be interesting candidates for light emission. In this thesis, the recombination, dephasing and diffusion of excitons in perovskite nanocrystals is investigated using time-resolved spectroscopy. All these dynamic processes have a direct

impact on the light-emitting device performance from a technology point of view. However, most importantly, the insights gained from the measurements allowed the author to modify the nanocrystals such that they emitted with an unprecedented quantum yield in the blue spectral range, resulting in the successful implementation of this material as the activelayer in an LED. This represents a technological breakthrough, because efficient perovskite light emitters in this wavelength range did not exist before.

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