Downloaded from UvA-DARE, the institutional repository of the University of Amsterdam (UvA)
http://dare.uva.nl/document/104698

File ID	104698
Filename	Papers by the author related to this thesis

SOURCE (OR PART OF THE FOLLOWING SOURCE):

Type	Dissertation
Title	Time-Resolved Spectroscopy of Energy Transfers in Optoelectronic Media
Author	I.Y. Izeddin Aguirre
Faculty	Faculty of Science
Year	2008
Pages	viii, 114

FULL BIBLIOGRAPHIC DETAILS:
http://dare.uva.nl/record/270094

Copyright

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use.

UvA-DARE is a service provided by the library of the University of Amsterdam (http://dare.uva.nl)

Papers by the author related to this thesis:

Chapter 1

Donor state enabling Er-related luminescence in silicon: Direct identification and resonant excitation
I. Izeddin, M. A. J. Klik, N. Q. Vinh, M. S. Bresler, and T. Gregorkiewicz
Physical Review Letters **99**, 077401 (2007)

Er-doped electro-optical memory element for 1.5 μm silicon photonics
T. Gregorkiewicz, B. A. Andreev, M. Forcales, I. Izeddin, W. Jantsch, Z. F. Krasil'nik, D. I. Kryzhkov, and J. M. Zavada
IEEE Journal of Selected Topics in Quantum Electronics **12**, 1539 (2006)

Chapter 2

Nanosecond Dynamics of the Near-Infrared Photoluminescence of Er-Doped SiO_2 Sensitized with Si Nanocrystals
I. Izeddin, A. S. Moskalenko, I. N. Yassievich, M. Fujii, and T. Gregorkiewicz
Physical Review Letters **97**, 207401 (2006)

Non-radiative sub-microsecond recombination of excited Er^{3+} ions in SiO_2 sensitized with Si nanocrystals
I. Izeddin, M. Fujii, and T. Gregorkiewicz
Physica E: Low-dimensional Systems and Nanostrucures **38**, 144 (2007)

Energy Transfer Processes in Er-doped SiO_2 Sensitized with Si Nanocrystals
I. Izeddin, A. A. Prokofiev, A. S. Moskalenko, I. N. Yassievich, D. Timmerman, M. Fujii, and T. Gregorkiewicz
Submitted to Physical Review B

Space-separated quantum cutting with Si nanocrystals for photovoltaic applications
D. Timmerman, I. Izeddin, P. Stallinga, I. N. Yassievich, and T. Gregorkiewicz
Nature Photonics **2**, 105 (2008)

Chapter 3

Photoluminescence and excitation spectroscopy of the 1.5 μm Er-related band in MBE-grown GaN layers
I. Izeddin, D. S. Lee, A. J. Steckl, and T. Gregorkiewicz
Superlattices and Microstructures **36**, 701 (2004)

On 2.7 μm emission from Er-doped large band gap hosts
H. Vrielinck, I. Izeddin, V. Yu Ivanov, T. Gregorkiewicz, F. Callens, D. S. Lee, A. J. Steckl, and N. M. Khaidukov
MRS Symposia Proceedings Vol. **866**, 13 (2005)

Other papers by the author:

Isotope dependence of the lifetime of the 1136 cm^{-1} vibration of oxygen in silicon
K. K. Kholi, N. Q. Vinh, D. West, S. K. Estreicher, T. Gregorkiewicz, I. Izeddin, K. M. Itoh, and G. Davies
Physical Review Letters **96**, 225503 (2006)

Isotope effects and temperature-dependence studies on vibrational lifetimes of interstitial oxygen in silicon
K. K. Kohli, G. Davies, N. Q. Vinh, D. West, S. K. Estreicher, T. Gregorkiewicz, I. Izeddin, and K. M. Itoh
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms **253**, 200 (2006)

Mid-infrared spectroscopy of the Er-related donor state in Si/Si:Er^{3+} nanolayers
I. Izeddin, M. A. J. Klik, N. Q. Vinh, M. S. Bresler, and T. Gregorkiewicz
Materials Science and Engineering B **146**, 131 (2008)