

Experimental and theoretical studies of free and acceptor-bound positive magneto-trions

L. Bryja, A. Wójs, P. Płochocka-Polack, A. Gładysiewicz, J. Misiewicz, M. Potemski
Acta Physica Polonica **A112**, 415 (2007)

Magneto-optical probing of weak disorder in a two-dimensional hole gas

L. Bryja, A. Wójs, J. Misiewicz, M. Potemski, D. Reuter, A. Wieck
Physical Review B **75**, 035308 (2007)

Anderson-Fano transitions in photoluminescence of a two-dimensional electron gas

L. Bryja, A. Wójs, K. Ryczko, K. Wójcik, J. Misiewicz, M. Potemski, D. Reuter, A. Wieck
Int. J. Mod. Phys. **21**, 1429 (2007)

Photoluminescence of Eu-doped TiO₂ thin films prepared by low pressure hot target magnetron sputtering

J. Domaradzki, E. Prociw, A. Podhorodecki, A. Borkowska, D. Kaczmarek, J. Misiewicz
Thin Solid Films **515**, 6344 (2007)

Influence of post annealing on optical and structural properties of Eu and Pd-doped TiO₂ thin films

J. Domaradzki, A. Borkowska, D. Kaczmarek, A. Podhorodecki, J. Misiewicz
Optical Applicata **37**, 51 (2007)

Molecular beam epitaxy of GaBiAs on (311) B GaAs substrates

M. Henini, J. Ibanez, M. Schmidbauer, M. Shafi, S. V. Novikov, L. Turyanska, S. I. Molina, D. L. Sales, M. F. Chisholm, J. Misiewicz
Appl. Phys. Lett. **91**, 251909 (2007)

Optical characterization of (In,Ga)(As,N) thin films grown by molecular beam epitaxy on non-(100) GaAs substrates

J. Ibanez, M. Henini, R. Kudrawiec, J. Misiewicz, M. Schmidbauer, M. Hopkinson
Journal of Crystal Growth **301**, 552 (2007)

Optical emission from Eu, Tb, Nd luminescence centers in TiO₂ prepared by magnetron sputtering

D. Kaczmarek, J. Domaradzki, A. Borkowska, A. Podhorodecki, J. Misiewicz, K. Sieradzka
Optical Applicata **37**, 51 (2007)

Optical emission from Eu, Tb, Nd luminescence centres in TiO₂ prepared by magnetron sputtering

D. Kaczmarek, J. Domaradzki, A. Borkowska, A. Podhorodecki, J. Misiewicz, K. Sieradzka

Optica Applicata **37** (2007)

Contactless electroreflectance approach to study the Fermi level position in GaInNAs/GaAs quantum wells

R. Kudrawiec, H.B. Yuen, S.R. Bank, H.P. Bae, M.A. Wistey, J.S. Harris, M. Motyka, J. Misiewicz

Journal of Applied Physics **102**, 113501 (2007)

Contactless electroreflectance of InAs/In_{0.53}Ga_{0.23}Al_{0.24}As quantum dashes grown on InP substrate: Analysis of the wetting layer transition

R. Kudrawiec, M. Motyka, J. Misiewicz, A. Somers, R. Schwertberger, J.P. Reithmaier, A. Forchel, A. Sauerwald, T. Kummell, G. Bacher

Journal of Applied Physics **101**, 013507 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 3 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Conduction band offset for Ga_{0.62}In_{0.38}N_xAs_{0.991-x}Sb_{0.009}/GaN_yAs_{1-y}/GaAs systems with the ground state transition at 1.5-1.65 μm

R. Kudrawiec, S.R. Bank, H.B. Yuen, M.A. Wistey, LL. Goddard, James S. Harris, M. Gładysiewicz, M. Motyka, J. Misiewicz

Appl. Phys. Lett. **90**, 131905 (2007)

Fermi level shift in GaInNAsSb/GaAs quantum wells upon annealing studied by contactless electroreflectance

R. Kudrawiec, H.B. Yuen, S.R. Bank, H.P. Bae, M.A. Wistey, J.S. Harris, M. Motyka, J. Misiewicz

Appl. Phys. Lett. **90**, 061902 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 7 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Ground and excited state transitions in as-grown Ga_{0.64}In_{0.36}N_{0.046}As_{0.954} quantum wells studied by contactless electroreflectance

R. Kudrawiec, M. Gladysiewicz, J. Misiewicz, F. Ishikawa, K. H. Ploog

Appl. Phys. Lett. **90**, 041916 (2007)

Contactless electroreflectance of GaInNAsSb/GaAs single quantum wells with indium content of 8%-32%

R. Kudrawiec, H.B. Yuen, M. Motyka, M. Gładysiewicz, J. Misiewicz, S.R. Bank, H.P. Bae, M.A. Wistey, James S. Harris

Journal of Applied Physics **101**, 013504 (2007)

Electromodulation spectroscopy of interband transitions in GaInNAsSb/GaAs quantum wells with high indium content

R. Kudrawiec, H.B. Yuen, S.R. Bank, H.P. Bae, M.A. Wistey, J.S. Harris, M. Motyka, M. Gladysiewicz, J. Misiewicz
Physica Status Solidi **204**, 364 (2007)

The influence of antimony on the optical quality of highly strained GaInNAs-GaAs QWs investigated by contactless electroreflectance

R. Kudrawiec, H.B. Yuen, S.R. Bank, H. P. Bae, M.A. Wistey, James S. Harris, M. Motyka, M. Gladysiewicz, J. Misiewicz
Physica Status Solidi A **204**, 543 (2007)

Photovoltaic properties of SnCl₂Pc films and SnCl₂Pc/pentacene heterostructures

P. Lustyk, J. Misiewicz, A. Podhorodecki, Ya. Vertsimakha
Sol. Energy Mater. Sol. Cell. **91**, 47 (2007)

Electromodulation-absorption type spectroscopy of semiconductor structures applied in telecommunications lasers

J. Misiewicz, G. Sęk, R. Kudrawiec, M. Motyka
Proceedings of 2007 9-th International Conference on Transparent Optical Networks with 6-th European Symposium on Photonic Crystals **2**, 60, (2007)

Optical and electronic properties of GaAs-based structures with columnar quantum dots

M. Motyka, G. Sęk, K. Ryczko, J. Andrzejewski, J. Misiewicz, L. H. Li, A. Fiore, G. Patriarche
Appl. Phys. Lett. **90**, 181933 (2007)
Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 20 / OPTICAL PROPERTIES AND QUANTUM OPTICS

On the deepness of contactless electroreflectance probing in semiconductor structures

M. Motyka, R. Kudrawiec, J. Misiewicz
Physica Status Solidi **204**, 354 (2007)

Probing the indium clustering in InGaAs/GaAs quantum wells by room temperature contactless electroreflectance and photoluminescence spectroscopy

M. Motyka, G. Sęk, R. Kudrawiec, P. Sitarek, J. Misiewicz, J. Wójcik, B. J. Robinson, D. A. Thomson, P. Mascher
Journal of Applied Physics **101**, 16107 (2007)

Photoreflectance and contactless electroreflectance of an InAs quantum dash laser structure

M. Motyka, W. Rudno-Rudziński, G. Sęk, R. Kudrawiec, J. Misiewicz, A. Somers, R. Schwertberger, J. P. Reithmaier, A. Forchel

Physica Status Solidi (c) **4**, 350 (2007)

Photoluminescence from InAsN quantum dots embedded in GaInNAs/GaAs quantum wells

M. Motyka, R. Kudrawiec, G. Sęk, J. Misiewicz, D. Bisping, B. Marquardt, A. Forchel, M. Fischer

Journal of Applied Physics **101**, 113539 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 16 / Issue 1 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Contactless electroreflectance investigation of energy levels in a 1.3 μm emitting laser structure with the gain medium composed of InAsN quantum dots embedded in GaInNAs/GaAs quantum wells

M. Motyka, R. Kudrawiec, G. Sęk, J. Misiewicz, D. Bisping, B. Marquardt, A. Forchel, M. Fischer

Appl. Phys. Lett. **90**, 221112 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 24 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Photoluminescence from InAsN quantum dots embedded in GaInNAs/GaAs quantum wells

M. Motyka, R. Kudrawiec, G. Sęk, J. Misiewicz, D. Bisping, B. Marquardt, A. Forchel, M. Fischer

Journal of Applied Physics **101**, 113539 (2007)

Screening effect in contactless electroreflectance spectroscopy observed for AlGaIn/GaN heterostructures with two dimensional electron gas

M. Motyka, R. Kudrawiec, M. Syperek, J. Misiewicz, M. Rudziński, P. R. Hagenman, P. K. Larsen

Thin Solid Films **515**, 4662 (2007)

Size shrinkage of GaN nanocrystalline grains induced by Eu doping

M. Nyk, A. Podhorodecki, R. Kudrawiec, J. Misiewicz, W. Stręk

Electrochemical and Solid State Letters **10**, H203 (2007)

Energy transfer between nanocrystalline host and Eu^{3+} ions in GaN: Eu^{3+} powders

A. Podhorodecki, M. Nyk, R. Kudrawiec, J. Misiewicz, W. Stręk

Electrochemical and Solid-State Letters **10**, H88 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 3 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Optical investigation of the emission lines for Eu^{3+} and Tb^{3+} ions in the GaN powder host

A. Podhorodecki, M. Nyk, J. Misiewicz, W. Stręk
Journal of Luminescence **126**, 219 (2007)

Photoluminescence of Eu^{3+} and Sm^{3+} ions and SiO_2 , $\text{SiO}_2\text{:Na}_2\text{O}$ films formed from gel and ion implanted silica

J. C. Pivin, M. Sendova – Vassileva, G. Lagarde, F. Singh, A. Podhorodecki, J. Misiewicz
Journal of Optoelectronics and Advanced Materials **9**, 1872 (2007)

The formation of self-assembled InAs/GaAs quantum dots emitting at 1.3 μm followed by photorefectance spectroscopy

W. Rudno-Rudzinski, G. Sęk, J. Misiewicz, T.E. Lamas, A.A. Quivy
Journal of Applied Physics **101**, 73518 (2007)

Modulated refractivity probing of quantum dot and wetting layer states in InAs/GaInAsP/InP quantum dot laser structures

G. Sęk, M. Motyka, R. Kudrawiec, J. Misiewicz, F. Lelarge, B. Rousseau, G. Patriarche
Physica Status Solidi **204**, 496 (2007)

Contactless modulated reflectivity of quasi 0D self-assembled semiconductor structures

G. Sęk, R. Kudrawiec, M. Motyka, P. Poloczek, W. Rudno-Rudziński, P. Podemski, J. Misiewicz
Physica Status Solidi **204**, 400 (2007)

Spin coherence of holes in GaAs/(Al,Ga)As quantum wells

M. Syperek, D.R. Yakovlev, A. Grelich, J. Misiewicz, M. Bayer, D. Reuter, A. D. Wieck
Physical Review Letters **99**, 187401 (2007)
 Virt. J. Ultrafast Sci. / Volume 6 / Issue 12 / CONDENSED MATTER PHYSICS

Wetting layer states of InAs/GaAs self-assembled quantum dot structures: effect of intermixing and capping layer

G. Sęk, K. Ryczko, M. Motyka, J. Andrzejewski, K. Wysocka, J. Misiewicz, L. H. Li, A. Fiore, G. Patriarche
Journal of Applied Physics **101**, 63539 (2007)
 Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 14 / SUPRAMOLECULAR AND BIOCHEMICAL ASSEMBLY

Microphotorefectance spectroscopy – a modulation technique with high spatial resolution

G. Sęk, P. Podemski, W. Rudno-Rudziński, Z. Gumienny, J. Misiewicz
Optica Applicata **37** (2007)

Experimental evidence on quantum well-quantum dash energy transfer in tunnel injection structures for 1.55 μm emission

G. Sęk, P. Poloczek, P. Podemski, R. Kudrawiec, J. Misiewicz, A. Somers, S. Hein, S. Höfling, A. Forchel

Appl. Phys. Lett. **90**, 081915 (2007)

Vir. J. Nan. Sci. & Tech. / Volume 15 / Issue 9 / OPTICAL PROPERTIES AND QUANTUM OPTICS

Microphotorefectance spectroscopy – a modulation technique with high spatial resolution

G. Sęk, P. Podemski, W. Rudno-Rudziński, Z. Gumieny, J. Misiewicz

Optical Applicata **37**, 51 (2007)

Contactless modulated reflectivity of quasi 0D self-assembled semiconductor structures

G. Sęk, R. Kudrawiec, M. Motyka, P. Poloczek, W. Rudno-Rudziński, P. Podemski, J. Misiewicz

Physica Status Solidi A **204**, 400 (2007)

Efficient energy transfer in InAs quantum dash based tunnel-injection structures at low temperatures

G. Sęk, P. Podemski, R. Kudrawiec, J. Misiewicz, A. Somers, S. Hein, S. Höfling, J. P. Reithmaier, A. Forchel

SPIE Proceedings Series, ISSN 0277-786X 6481 (2007)

Investigation of built-in electric fields in AlGaIn/GaN heterostructures grown on misoriented 4H-SiC substrate by contactless electroreflectance

M. Syperek, M. Motyka, R. Kudrawiec, J. Misiewicz, M. Rudziński, P. R. Hageman, P. K. Larsen

Physica Status Solidi C **4**, 366 (2007)

Photoluminescence of impurity-bound exciton and trions in magnetic field

A. Wójs, L. Bryja, A. Gładysiewicz, J. Misiewicz, M. Potemski

Int. J. Mod. Phys. **21**, 1558 (2007)

Influence of the second shell layer (TOPO, HDA) on the optical properties of CdSe/ZnS nanocrystal powder

G. Zatoryb, A. Podhorodecki, J. Misiewicz, K. Nauka

Optica Applicata **37** (2007)

Influence of the second shell layer (TOPO,HDA) on the optical properties of CdSe/ZnS nanocrystal powder

G. Zatoryb, A. Podhorodecki, J. Misiewicz, K. Nauka

Optical Applicata **37**, 51 (2007)

Nonlinear dependence of the magnetophotoluminescence energies of asymmetric GaAs/Ga_{0.67}Al_{0.33}As quantum wells on an external magnetic field

W. Zawadzki, S. Bonifacie, S. Juillaguet, C. Chaubet, A. Raymond, Y. M. Meziani, M. Kubisa, and K. Ryczko

Phys. Rev. B **75**, 245319 (2007)