


PERSONAL INFORMATION

Flavian STOKKER-CHEREGI



 National Institute for Lasers, Plasma and Radiation Physics

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Sex Male | Date of birth 25/07/1979 | Nationality Romanian

CURRENT SCIENTIFIC PROJECTS

SOLE - PN-II-PT-PCCA-2013-4-1992

FUTURE - 5/5.2/CEA-RO - C5-07

WORK EXPERIENCE

From January the 1st, 2009 to present

Scientific Researcher III

National Institute for Lasers, Plasma and Radiation Physics

409 Atomistilor St., 077125 Magurele, Romania (<http://www.inflpr.ro/en>)

- Thin film deposition by pulsed laser deposition (PLD) and plasma assisted PLD
- Matrix assisted pulsed laser evaporation (MAPLE)
- Laser induced forward transfer (LIFT)
- Scanning electron microscopy (SEM)

From October the 1st, 2005 to December the 31st, 2008

PhD student

University of Florence, Physics Department, ITALY

- Ultra-fast optical spectroscopy of nitride based semiconductors

From November the 1st, 2002 to September the 30th, 2005

Assistant Researcher

National Institute for Lasers, Plasma and Radiation Physics, ROMANIA

- Thin film deposition by pulsed laser deposition (PLD) and plasma assisted PLD

EDUCATION AND TRAINING

From January the 1st, 2006 to December the 31st, 2008

PhD

University of Florence, Physics Department, ITALY

- Ultra-fast optical spectroscopy of nitride based semiconductors

From October the 1st, 2002 to February the 28th, 2004

Master

University of Bucharest, Faculty of Physics, ROMANIA

- Spectroscopy, Plasma, Lasers

From October the 1st, 1998
to September the 30th, 2002

Bachelor

University of Bucharest, Faculty of Physics, ROMANIA

▪ Optics

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills

▪ **Project Coordinator** of PN-II-RU-TE-2011-3-0070 - "Growth and modelling of distributed Bragg reflectors for quantum microcavities".

ADDITIONAL INFORMATION

Publications in ISI ranked journals

1. C.E. Secu, M. Secu, **F. Stokker-Cheregi**, V. Ion, S. Brajnicov, M. Dinescu, "Laser processing of Yb³⁺/Er³⁺ co-doped LiYF₄ thin films with up-conversion properties", *Thin Solid Films* **625**, 6 (2017).
2. R. Birjega, A. Vlad, A. Matei, M. Dumitru, **F. Stokker-Cheregi**, M. Dinescu, R. Zavoianu, V. Raditoiu, M.C. Corobea, "Organo-layered double hydroxides composite thin films deposited by laser techniques", *Applied Surface Science* **374**, 326 (2016).
3. I. A. Paun, **F. Stokker-Cheregi**, C. R. Luculescu, A. M. Acasandrei, V. Ion, M. Zamfirescu, C. C. Mustaciosu, M. Mihailescu, M. Dinescu, "Electrically stimulated osteogenesis on Ti-PPy/PLGA constructs prepared by laser-assisted processes", *Materials Science & Engineering C - Materials for Biological Applications* **55**, 61 (2015).
4. A. Marcu, **F. Stokker-Cheregi**, R. R. Zamani, C. P. Lungu, "Glancing angle deposition in a pulsed laser ablation/vapor-liquid-solid grow system", *Applied Surface Science* **327**, 262 (2015).
5. V. N. Cancea, V. Ion, M. Filipescu, **F. Stokker-Cheregi**, M. Dumitru, D. Colceag, M. D. Ionita, M. Dinescu, "Effect of substrate composition and topography on the improvement of wettability of titanium dioxide thin films", *Journal of Optoelectronics and Advanced Materials* **16**, 804 (2014).
6. A. Marcu, **F. Stokker-Cheregi**, R. R. Zamani, C. P. Lungu, C. Grigoriu, "High repetition rate laser ablation for vapor-liquid-solid nanowire growth", *Current Applied Physics* **14**, 614 (2014).
7. **F. Stokker-Cheregi**, A. Matei, M. Dinescu, C. E. Secu, M. Secu, "Photoluminescence of Eu-doped LiYF₄ thin films grown by pulsed laser deposition and matrix-assisted pulsed laser evaporation", *Journal of Physics D - Applied Physics* **47**, 045304 (2014).
8. D.-M. Daniel, **F. Stokker-Cheregi**, M. Dumitru, V. Ion, M. Dinescu, "Aluminium nitride thin films grown by plasma assisted pulsed laser deposition", *Romanian Reports in Physics* **66**, 1118 (2014).
9. R. Birjega, A. Matei, B. Mitu, M. D. Ionita, M. Filipescu, **F. Stokker-Cheregi**, C. Luculescu, M. Dinescu, R. Zavoianu, O.-D. Pavel, M.-C. Corobea, "Layered double hydroxides/polymer thin films grown by matrix assisted pulsed laser evaporation", *Thin Solid Films* **543**, 63 (2013).
10. M. Filipescu, **F. Stokker-Cheregi**, D. Colceag, A. Nedelcea, R. Birjega, L.-C. Nistor, M. Dinescu, "Morphological and structural characterization of SiC based composite nanostructures", *Applied Surface Science* **278**, 96 (2013).
11. R. Birjega, A. Matei, M. Filipescu, **F. Stokker-Cheregi**, C. Luculescu, D. Colceag, R. Zavoianu, O.-D. Pavel, M. Dinescu, "The investigation of Ni-Al and Co-Al based layered double hydroxides and their derived mixed oxides thin films deposited by

- pulsed laser deposition*", Applied Surface Science **278**, 122 (2013).
12. A. Matei, R. Birjega, A. Vlad, C. Luculescu, G. Epurescu, **F. Stokker-Cheregi**, M. Dinescu, R. Zavoianu, O.-D. Pavel, "*Pulsed laser deposition of Mg-Al layered double hydroxide with Ag nanoparticles*", Applied Physics A-Materials Science & Processing **110**, 841 (2013).
 13. **F. Stokker-Cheregi**, A. Nedelcea, F.-M. Voicu, D.-M. Marin, R. Birjega, M. Dinescu, "*Structure and morphology of indium nitride thin films grown by plasma assisted PLD: the impact of nitrogen flow and substrate temperature*", Romanian Reports in Physics **65**, 213 (2013).
 14. **F. Stokker-Cheregi**, T. Acsente, I. Enculescu, C. Grisolia, G. Dinescu, "Tungsten and aluminium nanoparticles synthesized by laser ablation in liquids", Digest Journal of Nanomaterials and Biostructures **7**, 1569 (2012).
 15. **F. Stokker-Cheregi**, A. Nedelcea, M. Filipescu, A. Moldovan, D. Colceag, V. Ion, R. Birjega, and M. Dinescu, "*High temperature growth of InN on various substrates by plasma-assisted pulsed laser deposition*", Appl. Surf. Sci. **257**, 5312 (2011).
 16. **F. Stokker-Cheregi**, A. Vinattieri, E. Feltn, D. Simeonov, J.-F. Carlin, R. Butte, N. Grandjean, F. Sacconi, M. Povolotskyi, A. Di Carlo, and M. Gurioli, "*Quantum confinement dependence of the energy splitting and recombination dynamics of A and B excitons in a GaN/AlGaIn quantum well*", Phys. Rev. B **79**, 245316 (2009).
 17. **F. Stokker-Cheregi**, A. Vinattieri, E. Feltn, D. Simeonov, J. Levrat, J.-F. Carlin, R. Butte, N. Grandjean, and M. Gurioli, "*Impact of quantum confinement and quantum confined Stark effect on biexciton binding energy in GaN/AlGaIn quantum wells*", Appl. Phys. Lett. **93**, 152105 (2008).
 18. **F. Stokker-Cheregi**, A. Vinattieri, F. Semond, M. Leroux, I. R. Sellers, J. Massies, D. Solnyshkov, G. Malpuech, M. Colocci, and M. Gurioli, "*Polariton relaxation bottleneck and its thermal suppression in bulk GaN microcavities*", Appl. Phys. Lett. **92**, 042119 (2008).
 19. **F. Stokker-Cheregi**, A. Vinattieri, E. Feltn, D. Simeonov, J.-F. Carlin, R. Butte, N. Grandjean, and M. Gurioli, "*Biexciton kinetics in GaN quantum wells: Time-resolved and time-integrated photoluminescence measurements*", Phys. Rev. B **77**, 125342 (2008).
 20. **F. Stokker-Cheregi**, M. Zamfirescu, A. Vinattieri, M. Gurioli, I. Sellers, F. Semond, M. Leroux, and J. Massies, "*Polariton thermalization in GaN microcavities in the strong light-matter coupling regime*", Superlattices Microstruct. **41**, 376 (2007).
 21. M. Gurioli, M. Zamfirescu, **F. Stokker-Cheregi**, A. Vinattieri, I. R. Sellers, F. Semond, M. Leroux, and J. Massies, "*Polariton emission in GaN microcavities*", Superlattices Microstruct. **41**, 284 (2007).
 22. I. R. Sellers, F. Semond, M. Zamfirescu, **F. Stokker-Cheregi**, P. Disseix, M. Leroux, J. Leymarie, M. Gurioli, A. Vinattieri, F. Reveret, G. Malpuech, A. Vasson, and J. Massies, "*From evidence of strong light-matter coupling to polariton emission in GaN microcavities*", Phys. Stat. Sol. B **244**, 1882 (2007).
 23. I. R. Sellers, F. Semond, M. Leroux, J. Massies, M. Zamfirescu, **F. Stokker-Cheregi**, M. Gurioli, A. Vinattieri, M. Colocci, A. Tahraoui, and A. A. Khalifa, "*Polariton emission and reflectivity in GaN microcavities as a function of angle and temperature*", Phys. Rev. B **74**, 193308 (2006).
 24. M. Braic, M. Balaceanu, A. Vladescu, A. Kiss, V. Braic, A. Purice, G. Dinescu, N. Scarisoreanu, **F. Stokker-Cheregi**, A. Moldovan, R. Birjega, and M. Dinescu, "*TiN/ZrN heterostructures deposition and characterization*", Surf. Coat. Technol. **200**, 6505 (2006).

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Citing articles 90
(without self-citations)