

**Daniel Georgiev**

Married, 2 children

Lives in Southeast Michigan

**Education**

M.S. in Engineering Physics, Sofia University, Sofia, Bulgaria (1994)

Ph.D. in Electrical Engineering, University of Cincinnati, Ohio (2003)

**Employment after UC Graduation:**

2003 – 2005: Research Associate, Center for SSIM, Wayne State Univ., Detroit, Michigan

2005 – 2006: Research Assist. Professor, Center for SSIM, Wayne State Univ., Detroit, Michigan

2006 – 2012: Assistant Professor, Department of Electrical Engineering & Computer Science, University of Toledo, Ohio

**Current Job Description:**

Associate Professor, Department of Electrical Engineering & Computer Science, University of Toledo, Ohio

**Publications** (as of March 2014: **43** journal publications and **37** refereed conference papers, h-index = **18**, with more than **1000** citations, excluding self-citations)

1. P. Boolchand, D.G. Georgiev, B. Goodman, "Discovery of the Intermediate Phase in Chalcogenide Glasses", *J. Optoelectronics and Advanced Materials*, **3** (2001), 703 (147 citations)
2. D.G. Georgiev, P. Boolchand, M. Micoulaut, "Rigidity Transitions and Molecular Structure of  $As_xSe_{1-x}$  glasses", *Phys. Rev. B*, **62** (2000), R9228 (64 citations)
3. Y. Wang, J. Wells, D.G. Georgiev, P. Boolchand, K. Jackson, M. Micoulaut, "Sharp Rigid to Floppy Transition Induced by Dangling Ends in a Network Glass", *Phys. Rev. Lett.*, **87** (2001), 185503 (49 citations)
4. P. Boolchand, D.G. Georgiev, M. Micoulaut, "Nature of Glass Transition in Chalcogenides", *J. Optoelectronics and Advanced Materials*, **4** (2002) 823 (73 citations)
5. D.G. Georgiev, G. Newaz, G. Auner, H. J. Herfurth, R. Witte, "An XPS Study of Laser-Fabricated Ti/Polyimide interfaces", *Appl.Surf.Sci.*, **236** (2004) 71 (49 citations)
6. D.G. Georgiev, R.J. Baird, I. Avrutsky, G. Auner, G. Newaz, "Controllable Excimer-Laser Fabrication of Conical Nano-Tips on Silicon Thin Films", *Appl.Phys.Lett.*, **84** (2004) 4881 (32 citations)

7. J.P. Moening, S.S. Thanawala, D.G. Georgiev, "Formation of High-Aspect-Ratio Protrusions on Gold Films by Localized Pulsed Laser Irradiation", *Appl. Phys. A*, **95** (2009) 635 (17 citations)
8. I.R. Pala, I.U. Arachchige, D.G. Georgiev, S.L. Brock SL, "Reversible Gelation of II-VI Nanocrystals: The Nature of Interparticle Bonding and the Origin of Nanocrystal Photochemical Instability", *Angewandte Chemie - International Edition* **49** (2010) 3661 (24 citations)

## **Patents**

D.G. Georgiev, I. Avrustky, R.J. Baird, G. Newaz, G. Auner, "Method of forming micro-structures and nano-structures", patent # US 7,799,707

R.J. Baird, D.G. Georgiev, I. Avrustky, G. Newaz, G. Auner, "Method of forming gated, self-aligned micro-structures and nano-structures", patent # US 7,402,445

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