



# Zlatko Nedelkoski

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## ● WORK EXPERIENCE

2017 – CURRENT – Skopje, North Macedonia

**ASSISTANT PROFESSOR IN PHYSICS – MOTHER THERESA UNIVERSITY**

## ● EDUCATION AND TRAINING

2014 – 2017 – York, United Kingdom

**PHD IN PHYSICS – University of York**

**Address** York, United Kingdom

2009 – 2013 – Skopje, North Macedonia

**BACHELOR IN PHYSICS – Ss Cyril and Methodius University**

**Address** Skopje, North Macedonia

## ● LANGUAGE SKILLS

Mother tongue(s): **MACEDONIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● PUBLICATIONS

### Publications

Petreska et al. Axially symmetrical molecules in electric and magnetic fields: energy spectrum and selection rules. *Central European Journal of Physics* **11**(4), 412 (2013).

Lari et al. Correlations between atomic structure and giant magnetoresistance ratio in  $\text{Co}_2(\text{Fe},\text{Mn})\text{Si}$  spin valves. *Journal of Physics D: Applied Physics* **47**, 322003 (2014).

Nedelkoski et al. Magnetic properties of electrons confined in an anisotropic cylindrical potential. *Physica B – Condensed Matter* **452**, 113 (2014).

Nedelkoski et al. The effect of atomic structure on interface spin-polarization of half-metallic spin valves:  $\text{Co}_2\text{MnSi}/\text{Ag}$  epitaxial interfaces. *Applied Physics Letters* **107**, 212404 (2015).

Gilks et al. Atomic and electronic structure of twin growth defects in magnetite. *Scientific Reports* **6**, 20943 (2016).

Kuerbanjiang et al. The role of chemical structure on the magnetic and electronic properties of  $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}/\text{Si}(111)$  interface. *Applied Physics Letters* **108**, 172412 (2016).

Gilks et al. Polar spinel-perovskite interfaces: an atomistic study of  $\text{Fe}_3\text{O}_4(111)/\text{SrTiO}_3(111)$  structure and functionality. *Scientific Reports* **6**, 29724 (2016).

Nedelkoski et al. Controlling the half-metallicity of Heusler/Si(111) interfaces by a monolayer of Si-Co-Si. *Journal of Physics Condensed Matter* **28**, 395003 (2016).

Nedelkoski et al. Realisation of magnetically and atomically abrupt half-metal/semiconductor interface:  $\text{Co}_2\text{FeSi}_{0.5}\text{Al}_{0.5}/\text{Ge}(111)$ . *Scientific Reports* **6**, 37282 (2016).

Nedelkoski et al. The antiphase boundary in half-metallic Heusler alloy  $\text{Co}_2\text{Fe}(\text{Al},\text{Si})$ : atomic structure, spin polarization reversal, and domain wall effects. *Applied Physics Letters* **109**, 222405 (2016).

Kepaptsoglou et al. Nonstoichiometric twin defects in  $\text{Fe}_3\text{O}_4(111)$  thin films: atomic and electronic structure. *Proceedings of Microscopy & Microanalysis* **22**, S3, 1698–1699 (2016).

Kepaptsoglou et al. Atomic and electronic structure study of a  $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$  half-metal thin film on Si(111). *Proceedings of Microscopy and Microanalysis* **22**, S3, 1524–1525 (2016).

Nedelkoski et al. Origin of reduced magnetization and domain formation in small magnetite nanoparticles. *Scientific Reports* **7**, 45997 (2017).

Nedelkoski et al. Atomic study of hybrid spintronic heterostructures:  $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}/\text{Ge}(111)$ . *Proceedings of Microscopy and Microanalysis* **23**, S1, 1762–1763 (2017).

Kuerbanjiang et al. Effect of annealing on the structure and magnetic properties of  $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$  thin films on Ge(111). *Journal of Alloys and Compounds* **748**, 323–327 (2018).

Moreno et al. Role of anti-phase boundaries in the formation of magnetic domains in magnetite thin films. *Journal of Physics: Condensed Matter* **33**, 175802 (2021).