

## PERSONAL INFORMATION

Ing. Urszula D. Wdowik, Ph.D.



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Sex female | Date of birth 14/11/1967 | Nationality polish

## WORKING POSITION

Associate professor at Pedagogical University of Cracow

### WORKING EXPERIENCES

from September/2012

Associate professor

Institute of Technology, Department of Mathematics, Physics and Technology, Pedagogical University of Cracow, Poland

2003 - 2012

Assistant professor

Institute of Technology, Department of Mathematics, Physics and Technology, Pedagogical University of Cracow, Poland

1998 - 2003

Assistant professor

Institute of Physics, Department of Mathematics, Physics and Technology, Pedagogical University of Cracow, Poland

1991 - 1998

Scientific assistant

Institute of Physics and Computer Science, Department of Mathematics, Physics and Technology, Pedagogical University of Cracow, Poland

## EDUCATION

May/2012

Habilitation in Physics

Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Cracow, Poland

Dec/2005

M.Sc. in Computer Science

Faculty of Mathematics, Physics and Technology, Pedagogical University of Cracow, Poland

June/1998

Ph.D. in Physics

Faculty of Physics and Nuclear Techniques, AGH University of Science and Technology, Cracow, Poland

July/1991

M.Sc. in Physics

Faculty of Physics and Nuclear Techniques, AGH University of Science and Technology, Cracow, Poland

## PUBLICATION RECORD (July 2017)

Number of publications: 56,

Number of publications (WoS): 53

Number of citations/without selfcitation (WoS): 433/348, H-index (WoS): 11

10 most relevant publications (2006-2016):

1. A. Siegel, K. Parlinski, and **U. D. Wdowik**, *Ab initio calculation of structural phase transitions in AlN crystal*, Phys. Rev. B **74**, 104116 (2006); IF = 3.736, 67 citations
2. **U. D. Wdowik** and K. Ruebenbauer, *Calibration of the isomer shift for the 14.4-keV transition in  $^{57}\text{Fe}$  using the full-potential linearized augmented plane-wave method*, Phys. Rev. B **76**, 155118 (2007); IF = 3.736, 57 citations
3. **U. D. Wdowik** and K. Parlinski, *Lattice dynamics of CoO from first principles*, Phys. Rev. B **75**, 104306 (2007); IF = 3.736, 33 citations
4. **U. D. Wdowik** and K. Parlinski, *Electronic structure of cation-deficient CoO from first principles*, Phys. Rev. B **77**, 115110 (2008); IF = 3.736, 20 citations

5. **U. D. Wdowik** and K. Parlinski, *Lattice dynamics of cation-deficient CoO from first principles*, Phys. Rev. B **78**, 224114 (2008) IF = 3.736, 14 citations
6. **U. D. Wdowik**, K. Parlinski, T. Chatterji, S. Rols, and H. Schober, *Lattice dynamics of rhenium trioxide from the quasiharmonic approximation*, Phys. Rev. B **82**, 104301 (2010); IF = 3.736, 17 citations
7. **U. D. Wdowik**, *Ab initio study of point defects in the strongly correlated system CoO*, Phys. Rev. B **84**, 064111 (2011); IF = 3.736, 7 citations
8. **U. D. Wdowik**, P. Piekarczyk, K. Parlinski, A.M. Oles, and J. Korecki, *Strong effects of cation vacancies on the electronic and dynamical properties of FeO* Phys. Rev. B **87**, 12106(R) (2013); IF = 3.736, 9 citations
9. **U. D. Wdowik**, K. Parlinski, S. Rols, T. Chatterji, *Soft-phonon mediated structural phase transition in GeTe*, Phys. Rev. B **89**, 224306 (2014); IF = 3.736, 7 citations
10. N. Spiridis, M. Zając, P. Piekarczyk, A.I. Chumakov, K. Friedl, J. Goniakowski, A. Koziol-Rachwał, K. Parlinski, M. Ślęzak, T. Ślęzak, **U. D. Wdowik**, D. Wilgocka-Ślęzak, and J. Korecki, *Phonons in ultrathin oxide film: 2D to 3D transition in FeO on Pt(111)* Phys. Rev. Lett. **115**, 186102 (2015); IF = 7.512, 6 citations

## PROJECT SKILLS

1. COST - European Cooperation in the Field of Scientific and Technological Research, Action MP0903: Nanoalloys as advanced materials: from structure to properties and applications (2011-2014), research team member
2. Swiss-Polish Research Project No. PSPB-049/2010 (2011-2014), research team member
3. Polish Research project: Investigation of structural, dynamical and magnetic properties of nanoparticles, multilayers and surfaces containing transition metals and rare-earth elements from first-principles (2011-2014), research team member
4. COST - European Cooperation in the Field of Scientific and Technological Research, Action MP1308: Towards oxide-based electronics TO-BE (2014-2018), research team member
5. Czech-Polish Research Project No. MEB051015: *Ab initio* study of one-dimensional magnets (2010-2011), project coordinator
6. Polish Research Project No. 3T11F03129: *Ab initio* calculations of the lattice dynamics and electronic structure of doped cobaltous oxide CoO (2005-2007), project leader

## PEDAGOGICAL SKILLS

### Supervisor of PhD thesis

- G. Jagło, Influence of magnetic ordering on phonons in AT<sub>2</sub>X<sub>2</sub> systems, Pedagogical Univ. Cracow, 2017

### Supervisor of bachelor and master thesis:

- more than 25 thesis

### Organizing skills

1. Symposium on ab initio computational methods Feb. 29<sup>th</sup> 2016, member of scientific committee
2. International Conference on Engineering, Computer Science and Education, Nov. 16-18 2016, member of scientific committee
3. International Conference on Engineering, Computer Science and Education, Nov. 5-7 2014, member of scientific committee
4. 4<sup>th</sup> Workshop on ab initio phonon calculations, Dec. 3-6 2014, member of organizing committee
5. 3<sup>rd</sup> Workshop on ab initio phonon calculations, Dec. 1-4 2010, member of organizing committee
6. 2<sup>nd</sup> Workshop on ab initio phonon calculations, Dec. 6- 9 2007, member of organizing committee
7. Workshop on ab initio phonon calculations, Dec. 2-4 2004, member of organizing committee

### Native language polish

#### Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken communication	
English	C2	C2	C2	C2	C2
Deutsch	B1	B1	A2	A2	A2
Russian	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](#)