30/12.01.2016

Declaratia de Candidatura

Subsemnata, Simona Pinzaru, Conf. dr. la Departamentul de Fizica Biomoleculara din cadrul Facultatii de Fizica, imi exprim intentia de a candida pentru pozitia de membru in Consiliul Facultatii.

Cluj-Napoca, 12.01.2016

S. Pinzaru

europass

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Simona Cîntă Pînzaru**
Address(es)	Kogalniceanu 1, RO 400084 Cluj-Napoca, Romania
Telephone(s)	+40264-405300 Mobile: +4(0)745-387709
Fax(es)	+40-264-591906
E-mail	simona.cinta@phys.ubbcluj.ro
Nationality	Romanian
Gender	F

Work experience

	Assoc. Professor of Spectroscopy and Lasers, Optoelectronics, Optics, Nanomedicine and molecular Doagnostic, IR and Rman applications,
Dates	2003-present; Associate Professor, Biomolecular Physics Dept., Babes-Bolyai University; Cluj-Napoca, Romania 2014-2016-Senior researcher, NEWFELPRO fellow University of Dubrovnik, Croatia 1998-2003; Lecturer, Molecular Spectroscopy Dept., Babes-Bolyai University 1995-1998 Assistant professor, Molecular Spectroscopy Dept., Babes-Bolyai University
Occupation or position held	Associate Professor
Name and address of employer	Babes-Bolyai University, Faculty of Physics, Biomolecular Physics Department, Cluj-Napoca, RO 400084

Education and training

	2003, 2004, 2005, Visiting Scientist *Bayerische Julius Maximilian Universität,* Würzburg, Germany (3 months, respectively); 1999, 2002, Erasmus-Socrates Fellowship, Post Doc at University of Würzburg, Germany; 1996- *Wissentschaftliches Mitarbeiterin an der Bayerische Julius Maximilians Universitaet Würzburg*, 1996- Soros fellow, PhD student, University of Würzburg, Germany;
Dates	1998 Doctoral Thesis: "Raman and SERS spectroscopic studies of the metal-adsorbed complex for the biological interest molecules"
Title of qualification awarded	Doctor in Physics (1998) of Babes-Bolyai University Cluj-Napoca, Romania
Principal subjects/occupational skills covered	Scientific research & Didactic activity Courses: Spectroscopy and Lasers, Optoelectronics, Nanomedicine and Molecular Diagnostic, Optics, Vibrational spectroscopy methods –Biomedical Applications; Optics (German Language), Spectroscopy (German Language) seminars, laboratories); Research topic :Applied Raman spectroscopy; Raman techniques for nanomedicine, personalized diagnostic, pharmaceuticals, food control and environmental field; Nano risk: investigation of the interface between living organisms and nanoparticles;

Personal skills and competences

Mother tongue(s)	**Romanian**
Other language(s)	English, German, French, Croatian

Self-assessment

Understanding	Speaking	Writing

European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	B2	C1	B2	C1	C1
French	B2	C2	B1	B1	B2
Croatian	B2	B2	B1	A2	B2

(*) Common European Framework of Reference for Languages

Social skills and competences

Organising / Coordinator scientific meetings **: *Workshop Bruker*** 2002; ***Workshop Witec*** 2008, ***Workshop Rigaku*** 2013, Cluj-Napoca, ***Workshop Rigaku 2014*** *"Shedding Laser light on the Adriatic Sea environment"*- in cooperation with Rigaku Technologies Inc., 2014, ***Workshop B&W TEK***, 2015,(Dubrovnik);
Member in the Organising Committee of the International Conference "Advanced Spectroscopies on Biomedical and Nanostructured Systems" **NanoSpec** Cluj-Napoca, 5 Editions: 2004, 2006, 2008, **BioNanoSpec** 2011, 2014);
Member in the Local Scientific and Organising Committee of the **EUCMOS 2012**, Cluj-Napoca, Romania
Member in the International scientific Committee of **ICOVS** (2006, 2014)
Very good communication skills, teaming, public relations, media;

Organisational skills and competences

Project manager "JADRANSERS" (2014-2016) NEWFELPRO Grant Nr. 5,– Marie Curie FP7-PEOPLE-2011-COFUND program Ministry of Science, Education. and Sports Croatia,
Coordination of research projects: PN_II_ID_2284/ 2008-2011; Grant Director
Member in other projects grants teams - 2005, 2004, 2003, 2002;
World Bank Grant for Young Researcher: BM-T Grant Director 1999-2002;
Grant Director CNCSIS –AT – 2000-2002.
NEWFELPRO co-financed through the Marie Curie FP7-PEOPLE-2011-COFUND program –fellow as senior
3 international bilateral and institutional agreements , 4 interdepartmental agreements;

Technical skills and competences

Experimental vibrational spectroscopy – Developing Raman spectroscopy applications in biomedical, environmental and conservation-restoration field ; Pure and Applied SERS; (Nanomedicine; Pharmaceuticals; Food control; Environment, Cultural Heritage –assessment for conservation-restoration

Prizes /Awards

The Prize of Babes-Bolyai University for the Excellence in Research, 2011
Poster prize, 5-th Summit of Clinical Nanomediicine, Clinam 2012, Basel;
Nomination for Dhamelincourt prize, Paris, 2007

Computer skills and competences

User; Microsoft office, Specific scientific software spectral data analysis;

Artistic skills and competences

Photography, holography, cultural heritage

Additional information

Publications: 73 articles in ISI journals; 4 books/ book chapters; 48published papers in Romanian national journals; More than 180 contributions in proceedings / book of abstracts;13 invited lectures; 39 talks and oral presentations to conferences and meetings;
Researcher ID: A-4543-2011; Profile URL: http://www.researcherid.com/rid/A-4543-2011
ORCID: http://orcid.org/0000-0001-8016-4408
Researcher ID: : https://www.researchgate.net/profile/Simona_Cinta_Pinzaru
H index 14 (Scopus) (self-citations excluded);***Google Scholar: H-index: 16;***
Research topics: Nanomedicine: nanosciences for the benefit of patient. Early cancer diagnostic using optical spectroscopy techniques, including Raman, SERS, combined with complementary techniques;
Marine biotoxins; Food control, aquaculture and seafood characterization and monitoring, using ultrasensitive Raman techniques; Pharmaceuticals;
Member of the European Technology Platform-Nanomedicine (ETPN); International Association of Physical Chemists (IAPC), European Physical Society (EPS); Romanian Society for Pure and Applied Biophysics (RSPAB);
Member in the Editorial Board of the Journal of Spectroscopy.
Scholarly Contributions [Data Provided by scopus: http://www.hindawi.com/28456802/
Reviewer in more than 10 ISI journals

Cluj-Napoca,11.01.2016

Simona Cîntă Pînzaru

Listă cu cele mai semnificative producții științifice și didactice

a) **Stiintifice** (selectie publicatii din 2011-2015):

1. Surface Enhanced Raman Spectroscopy Used for the Identification and Characterization of Melanoma Mice Skin Tissues
Falamas, A.; Dehelean, C.; Chis, V.; **S. C. Pinzaru** et all.
European Journal of Cancer Volume: 47 Pages: S660-S660 Published: 2011
DOI: 10.1016/j.toxlet.2010.03.605
I. F. 5.417

2. Evaluation and differentiation of the Betulaceae birch bark species and their bioactive triterpene content using analytical FT-vibrational spectroscopy and GC-MS
Simona Cîntă-Pînzaru, Cristina A Dehelean, Codruta Soica, Monica Culea and Florin Borcan
Chemistry Central Journal 2012, 6:67 doi:10.1186/1752-153X-6-67
I.F. 2.5

3. Study of the betulin enriched birch bark extracts effects on human carcinoma cells and ear inflammation
Dehelean, Cristina A.; Soica, Codruta; Ledeti, Ionut; **S. Cinta Pinzaru**.
Chemistry Central Journal, **6,** 2012
http://journal.chemistrycentral.com/content/6/1/137
I.F. 2.5

4. Double Amino Functionalized Ag Nanoparticles as SERS Tags in Raman Diagnostic
S. Cinta Pînzaru, A Falamaş, C Dehelean, C Morari, M Venter
Croatica Chemica Acta 86 (3), 233-244, 2013
I.F. 0.76

5. Detection of thiabendazole applied to organic fruit by near infrared surface-enhanced Raman spectroscopy, Cs. Muller, L. David, **Simona Cinta Pinzaru**
Spectroscopy Europe 25 (4), 2013

6. A characterization of four B16 murine melanoma cell sublines molecular fingerprint and proliferation behavior
Corina Danciu, Alexandra Falamas, Cristina Dehelean, Codruta Soica, Heinfried Radeke, Lucian Barbu-Tudoran, Florina Bojin, **Simona Cîntă Pînzaru**, Melania F Munteanu,
Cancer Cell International, 2, 1, 2013, doi:10.1186/1475-2867-13-75
I. F. 2.77

7. Surface-enhanced Raman scattering (SERS) and complementary techniques applied for the investigation of an Italian cultural heritage canvas
OM Gui, A Fălămaş, L Barbu-Tudoran, M Aluaş, B Giambra, **S. Cinta Pinzaru**
Journal of Raman Spectroscopy 44 (2), 277-282, 2013
I.F. 2.68

8. Molecular conformation changes along the malignancy revealed by optical nanosensors
S Cinta Pinzaru, A Falamas, CA Dehelean
Journal of Cellular and Molecular Medicine 17 (2), 277-286, 2013
I.F. 4.75

9. Detection of thiabendazole applied on citrus fruits and bananas using surface enhanced Raman scattering
C Müller, L David, V Chiş, **S C Pînzaru**
Food Chemistry 145, 814-820, 2014
I.F. 3.33

10. Amnesic shellfish poisoning biotoxin detection in seawater using pure or amino-functionalized Ag nanoparticles and SERS
Müller C, Glamuzina B, Pozniak I, Weber K, Cialla D, Popp J, **Cîntă Pînzaru S**
Talanta, 130, 108-116, 2014;
doi: 10.1016/j.talanta.2014.06.059.
IF. 3.5

11. **Cintă Pinzaru, S.**, Müller, Cs., Tomšić, S., Venter, M. M., Cozar, B. I., and Glamuzina, B. (2015)
New SERS feature of β-carotene: consequences for quantitative SERS analysis.
J. Raman Spectrosc., 46 (7): 597–604. doi: 10.1002/jrs.4713.
I.F. 2.671; Accession Number: WOS:000358082000001

12. Analytical Study of Gallstones in Patients From Transylvania, Romania.
Ioana Brezestean, Nicolae Har, Alina Tantău, Maria Gorea, Monica M. Venter, **Simona Cîntă Pînzaru**
Studia Univ. Babes-Bolyai, Chemia, 1, (LX 1): 29-43 2015
I.F. 0.191

13. NIR-Raman spectrum and DFT calculations of okadaic acid DSP marine biotoxin microprobe
S. Cintă Pinzaru, Cs. Müller, I. S. Tódor, B. Glamuzina, V. Chis
J. Raman Spectrosc.Accepted Dec. 2015.
I. F. 2.671

b) Didactice:
Indrumator de laborator:
Simona Cinta Pinzaru, Lucrari practice de Spectroscopie, 2015;

Carti:
1. T. Iliescu, **S. Cîntă Pînzaru**, D. Maniu, R. Grecu, S. Aştilean,
"*Aplicaţii ale spectroscopiei vibraţionale*",
Ed. Casa Cărţii de Stiintă, Cluj-Napoca (ISBN 973-686-292-5), 2002.

2. T. Iliescu, **Simona Pinzaru**
Spectroscopia Raman şi SERS cu aplicaţii în biologie şi medicină
First edited by M. Trifu, 11/2011; Casa Cartii de Stiinta,
ISBN: 978-973-133-887-3

3..Recent Research Developments in Organometallic Chemistry, Vol. 4 (2001) Managing Editor S. G. Pandalay, (ISBN:81-7736-064-7), Research Signpost, Trivandrum, India:
Cap.: "Vibrational Spectroscopy and Theoretical Studies on organometallic complexes",
D. Moigno, I. Pavel, **S. Cîntă** and W. Kiefer, P.11-39.

4. Surface Enhanced Raman Spectroscopy - Analytical, Biophysical and Life Science Applications, Ed. S. Schluecker, WILEY-VCH Verlag ;
Chapter 6, „SERS and Pharmaceuticals",
Simona Cîntă Pînzaru, I. Pavel, pp129-154, Wiley-VCH, 12/2010;
DOI:10.1002/9783527632756.ch6; ISBN: 9783527632756 pp.129 – 154

Proiect privind dezvoltarea, managementul și inițiativele pe care doresc să le promovez la nivelul Consiliului Facultatii

Consider ca este imperios necesara o relansare si o constientizare a importantei pregatirii superioare in domeniul fizicii. De aceea, importanta constientizarii la toate nivelele de reprezentare a Facultatii de Fizica despre:

-Necesitarea desfasurarii unei activitati stiintifice si didactice de imalta calitate;
-Cultivarea unui spirit de echipa la nivelul facultatii si descurajarea concurentei intre membri aceluasi departament/grup;
-Promovarea reala a performantelor stiintifice la toate nivelurile;
-Evaluarea reala a implicarii ca institutie in programul Horizon2020 si luarea masurilor ce se impun;
-Plata taxelor institutionale de membru in organizatii si platforme europene si transnationale de cercetare;
-Construirea unei imagini pozitive si creatoare a facultatii;
-Promovarea realizarilor stiintifice in mediu economic;
-Construirea unei relatii viabile cu parteneri din mediul de afaceri (relatie ce presupune reciprocitate);
-Masuri concrete pentru atragerea si stimularea studentilor in activitatea de cercetare;
-Premirea si recunoasterea activitatilor de cercetare de succes atat in randul studentilor cat si in cadrul colectivului facultatii;
-Atragerea studentilor straini la nivel master si implicit, propunerea obligativitatii programelor de master ale facultatii intr-o limba accesibila studentilor straini (engleza);
-Incheierea de noi parteneriate internationale cu universitati, institute de cercetare din lume si relansarea colaborarii internationale in conformitate cu noile call-uri europene;
-Translatarea conoasterii stiintifice catre aplicatii atractive pentru mediul de afaceri;
-Imbunatatirea comunicarii si transparentei la toate nivelurile;

reprezinta o prioritate actuala la care pot contribui cu succes.

Simona Cinta Pinzaru