



WOMEN IN RESEARCH AND INNOVATION



Structural Transformation to Achieve Gender Equality in Science

Practical Hints for Success in Science. Success or value?

Liliana Mitoseriu

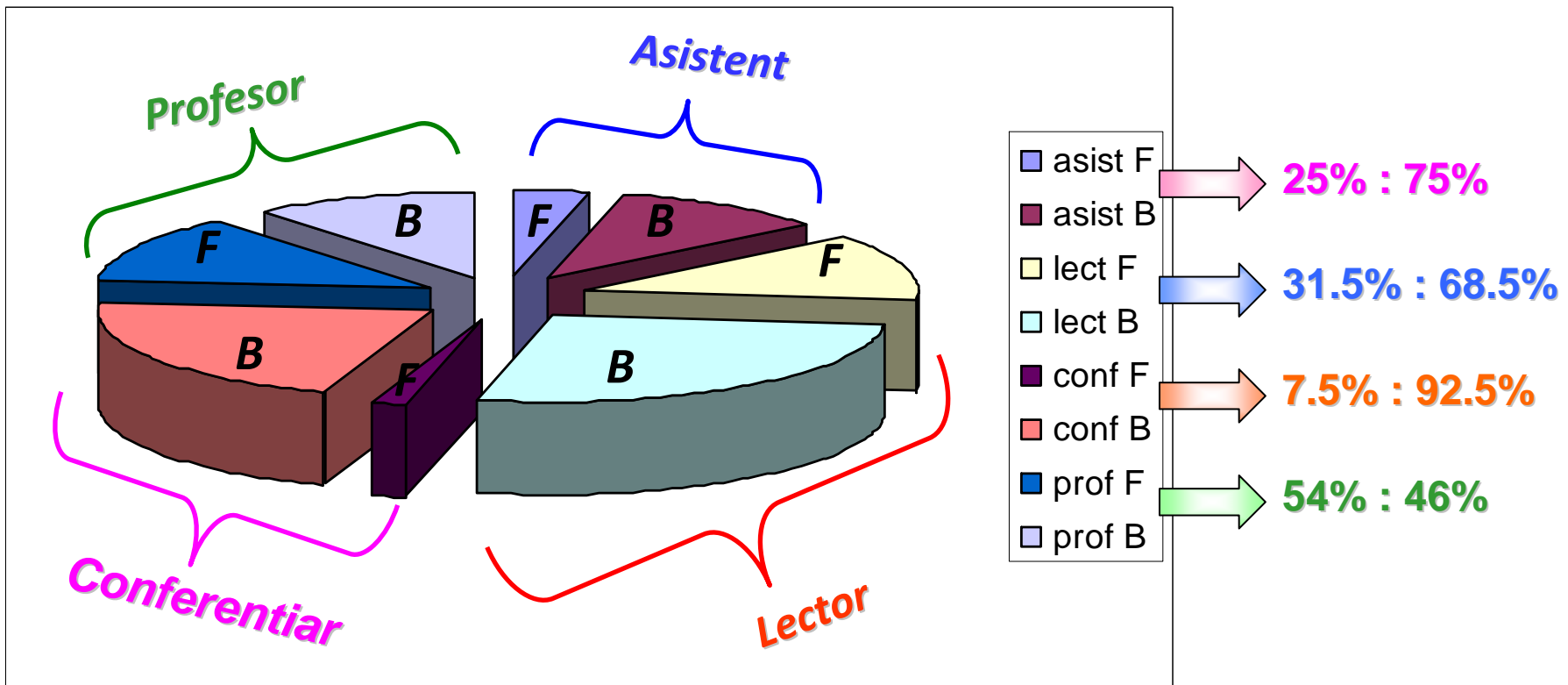
Faculty of Physics, University “Alexandru Ioan Cuza” Iasi

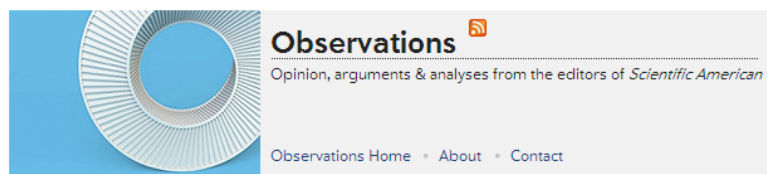


Faculty of Physics (oct. 2012)

Total - 56 fixed positions (17 F, 39 B)

- assistants: 8 (2F, 6B)
- lecturers: 22 (7F, 15B)
- associate professors: 13 (1F, 12B)
- full professors: 13 (7F, 6B)





How to Succeed in Science: Lindau Nobel Laureate Meeting, Day 4

By Mariette DiChristina | July 5, 2012 | 3

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On the last day of formal plenary talks at the 62nd Lindau Nobel Laureate Meeting, the laureates dispensed several lessons while describing their research experiences to the attending students, from developing expertise to enduring in the face of doubt.

(You can read all our coverage of the Lindau meeting this week, including the “30 under 30” profiles series of young scientists attending, in this In-Depth Report. Also see the Lindau Nobel Community blogs.)

Dan Shechtman, who won the 2011 Nobel in Chemistry for the discovery of

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How to Have a Successful Academic Career in Science

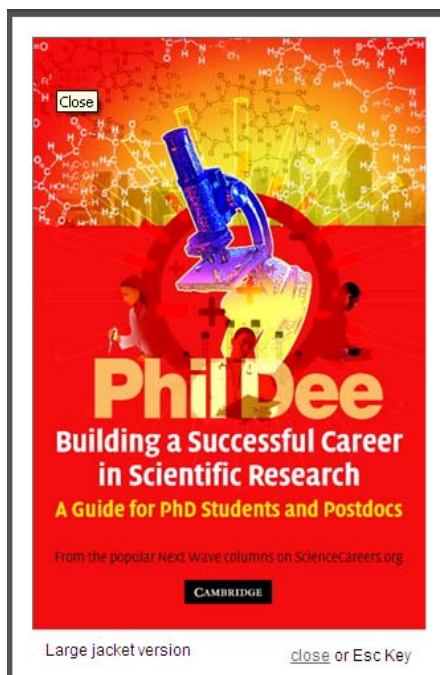
11. martie 2011
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By Pablo Artal, OSA Fellow

OSA Fellow Pablo Artal has kindly allowed OPN's Bright Futures career blog to republish content from his popular blog *Optics Confidential*. In his blog, Artal fields questions from students, colleagues and other researchers on science, society and managing a career in optics.

Dear Prof. Artal: After several years working as a post-doc, I have just obtained a tenure-track academic position. What advice do you have for someone who is looking to embark on a successful independent career as a scientist. --Helena, North Carolina, U.S.A.



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An Inclusive Community

Career Q&A: A Successful Career Without Credentials

By Elisabeth Pain

May 11, 2012

John "Jack" R. Horner is Regents Professor of Paleontology at [Montana State University](#) and the curator of paleontology at

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Magic [makes] possible today what science will make a reality tomorrow.



Marco Tempest: A cyber-magic card trick like no other

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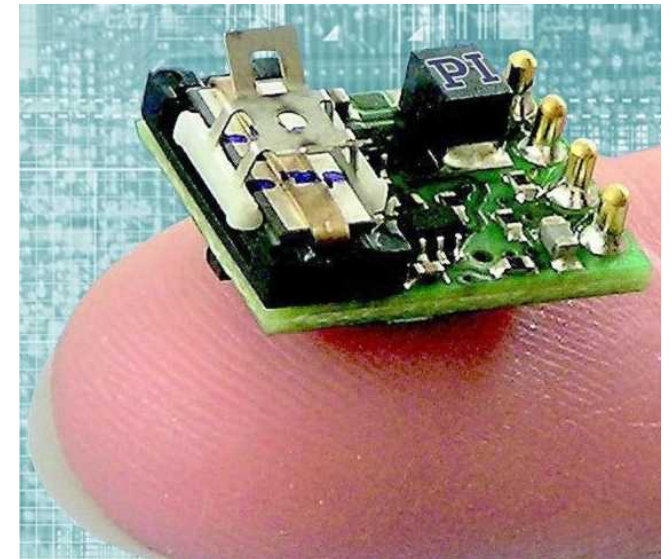
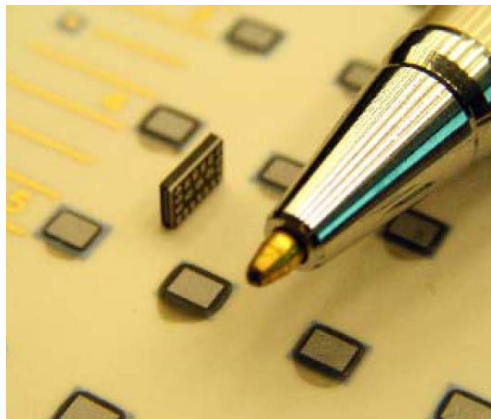
 <p>Rory Stewart: Why democracy matters 13:41 Posted: Oct 2012 Views: 14,447 Comments: 7 Rated: Persuasive Inspiring ...</p>	 <p>Marco Tempest: A cyber-magic card trick like no other 06:35 Posted: Oct 2012 Views: 145,328 Comments: 31 Rated: Jaw-dropping Fascinating ..</p>
 <p>Doris Kim Sung: Metal that breathes 08:59 Posted: Oct 2012 Views: 101,393 Comments: 57 Rated: Ingenious Fascinating ...</p>	 <p>Lemn Sissay: A child of the state 15:17 Posted: Oct 2012 Views: 85,052 Comments: 88 Rated: Courageous Inspiring ...</p>
 <p>David Pizarro: The strange politics of disgust</p>	 <p>Pankaj Ghemawat: Actually, the world isn't flat</p>

and many others...

Our research field

Field: Dielectrics, ferroelectrics and multiferroics

- “smart” materials with applications in microelectronics



Fully Encapsulated Multi-Chip Module

2012: 14 ISI papers



Group



**Prof. univ. dr.
Liliana Mitoseriu**



**Dr. Cristina Ciomaga
Post-doc**



**Dr. Lavinia Curecheriu
Post-doc**



**Dr. Cristina Olariu
Post-doc**



**Dr. Sorin Balmus
Post-doc**



**Dr. Felicia Gheorghiu
Researcher**



**Nadejda Horchidan
Researcher**



**Zina Mocanu
PhD Student**



**Leontin Padurariu
PhD student**



**Dr. Vasilica Pascariu
Post-doc**



**Dr. Mirela Airimioaei
Post-doc**



**Mihai Pop
PhD student**



**Alexandra Neagu
Master student**



**Geanina Apachitei
Master student**



**Cipriana Padurariu
Master student**

Work in a group.
Collaborate rather than compete.

GOOD & ACTIVE collaborations



- dr. V. Buscaglia, dr. M. Viviani, dr. M.T. Buscaglia, IENI-CNR, prof. P. Nanni, Dept. of Chemical & Process Eng., Univ. Genoa, ITALY



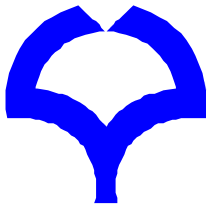
- Dr. C. Galassi, ISTEC-CNR Faenza, ITALY



- prof. A. Ianculescu, Polytechnics University of Bucharest, ROMANIA



- dr. C. Harnagea, INRS-EMT, Univ. Québec, Varennes, CANADA



- dr. D. Ricinschi, Tokyo University, JAPAN



**Select your collaborators wisely.
Create human contacts besides the scientific ones
in the scientific community.**

Results: Grain size effects in BaTiO₃ ceramics - Most cited paper with UAIC and UNIGE affiliation and second in Romania

PHYSICAL REVIEW B 70, 024107 (2004)

~ 250 citations

Grain-size effects on the ferroelectric behavior of dense nanocrystalline BaTiO₃ ceramics

Zhe Zhao,¹ Vincenzo Buscaglia,^{2,*} Massimo Viviani,² Maria Teresa Buscaglia,² Liliana Mitoseriu,^{3,4} Andrea Testino,³ Mats Nygren,¹ Mats Johnsson,¹ and Paolo Nanni³

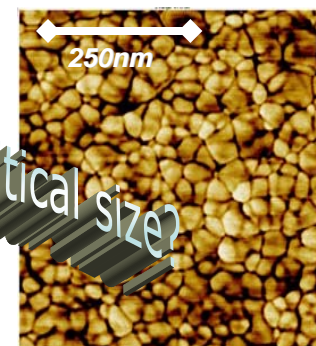
¹Department of Inorganic Chemistry, Arrhenius Laboratory, Stockholm University, S-106 91 Stockholm, Sweden

²Institute for Energetics and Interphases, Department of Genoa, National Research Council, via De Marini 6, I-16149 Genoa, Italy

³Department of Process and Chemical Engineering, University of Genoa, Fiera del Mare, I-16129 Genoa, Italy

⁴Department of Electricity and Electronics, University Al. I. Cuza Iasi, 700504, Romania

(Received 28 April 2004; published 30 July 2004)



The group of papers on GSE ~ 400 citations

PHYSICAL REVIEW B 73, 064114 (2006)

High dielectric constant and frozen macroscopic polarization in dense nanocrystalline BaTiO₃ ceramics

Maria Teresa Buscaglia,¹ Massimo Viviani,¹ Vincenzo Buscaglia,^{1,*} Liliana Mitoseriu,^{2,3} Andrea Testino,^{1,3} Paolo Nanni,^{1,3} Zhe Zhao,^{4,†} Mats Nygren,⁴ Catalin Harnagea,⁵ Daniele Piazza,⁶ and Carmen Galassi⁶

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⁶Institute of Science and Technology for Ceramics, Via Granarolo 64, I-48018 Faenza, Italy

(Received 6 October 2005; revised manuscript received 2 December 2005; published 24 February 2006)

INSTITUTE OF PHYSICS PUBLISHING

Nanotechnology 15 (2004) 1113–1117

Ferroelectric properties of dense nanocrystalline BaTiO₃ ceramics

Maria Teresa Buscaglia¹, Vincenzo Buscaglia^{1,7}, Massimo Viviani¹, Jan Petzelt², Maxim Savinov², Liliana Mitoseriu^{3,4}, Andrea Testino³, Paolo Nanni³, Catalin Harnagea⁵, Zhe Zhao⁶ and Mats Nygren⁶

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Powder Technology 148 (2004) 24–27

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Nanostructured barium titanate ceramics

V. Buscaglia^a, M. Viviani^{a,*}, M.T. Buscaglia^a, P. Nanni^b, L. Mitoseriu^b, A. Testino^b, E. Stytsenko^c, M. Daglish^c, Z. Zhao^d, M. Nygren^d

^aInstitute for Energetics and Interphases, National Research Council, Via De Marini 6, 16149 Genoa, Italy

^bDepartment of Chemical and Process Engineering, University of Genoa, P.le Kennedy, Pad. D, 16129 Genoa, Italy

^cIndustrial Research Limited, Gracefield Road, P.O. box 31-310, Lower Hutt, New Zealand

^dDepartment of Inorganic Chemistry, Arrhenius Laboratory, Stockholm University, 10691, Stockholm, Sweden

Available online 2 November 2004

APPLIED PHYSICS LETTERS

VOLUME 84, NUMBER 13

29 MAY 2004

Local switching properties of dense nanocrystalline BaTiO₃ ceramics

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Zhe Zhao and Mats Nygren

Department of Inorganic Chemistry, Arrhenius Laboratory, Stockholm University, S-10691 Stockholm, Sweden

(Received 6 October 2003; accepted 7 February 2004)

Good & interesting topic

~20 years of work in GSE

Down to 500nm (1996-1999)

Down to 30 nm (2004-2006)

Ferroelectrics, 1999, Vol. 223, pp. 99-106
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A Comparative Study of the Grain Size Effects on Ferro-Para Phase Transition in Barium Titanate Ceramics

LILIANA MITOSERIU^a, VASILE TURA^a, CONSTANTIN PAPUSOI^a,
TOSHIO OSAKA^b and MASANORI OKUYAMA^c

^aDept. of Electricity, Faculty of Physics, Al. I. Cuza University, Bd. Copou 11, Iasi, 6600, Romania, ^bDept. of Applied Physics, Faculty of Science, Science University of Tokyo, Kagurazaka 1-3, Shinjuku-ku, Tokyo 162, Japan and ^cDept. of Electrical Engineering, Graduate School of Engineering Science, Osaka University, 1-3 Machikaneyama-cho, Toyonaka, Osaka 560, Japan

Jpn. J. Appl. Phys. Vol. 35 (1996) pp. 5210-5216
Part 1, No. 9B, September 1996

Grain Size Dependence of Switching Properties of Ferroelectric BaTiO₃ Cer

Liliana MITOSERIU, Dan RICINSCHI, Catalin HARNAGEA, Masanori OKUYAMA¹, Takeyo TSUKAMOTO² and Vasile TURA*

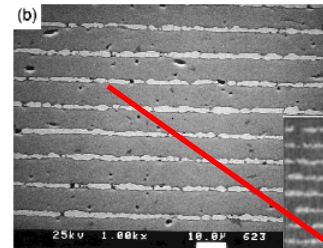
Department of Electricity and Magnetism, Faculty of Physics, Al. I. Cuza University, Iasi, 6600, Romania

¹Department of Electrical Engineering, Faculty of Engineering Science, Osaka University, 1-3 Machikaneyama-cho, Toyonaka, Osaka 560, Japan

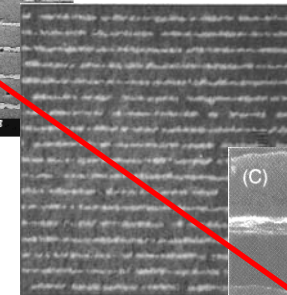
²Department of Applied Physics, Faculty of Science, Science University of Tokyo, 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162, Japan

(Received May 29, 1996; accepted for publication June 13, 1996)

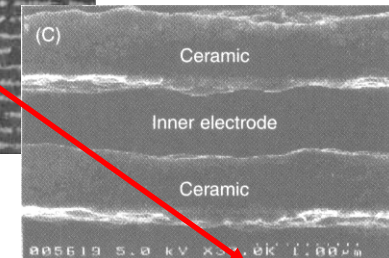
$d = 10 \mu\text{m}$



$d = 3 \mu\text{m}$



$d = 0.8 \mu\text{m}$



Ferroelectrics, 2000, Vol. 240, pp. 51-58
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Grain Size Dependence of the Rayleigh Coefficients in Barium Titanate Ceramics

LILIANA MITOSERIU, VASILE TURA, DAN RICINSCHI and
CATALIN HARNAGEA

"Al. I. Cuza" Univ., Faculty of Physics, Dept. of Electricity, Blv. Copou, 11,
Iasi, 6600, ROMANIA

(Received July 12, 1999)

Good professor



*PhD advisor:
prof. Constantin Papusoi*



- **Choose an interesting research topic.**
- **Choose a good professor in your field.**
 - **How you can evaluate your professor? Criteria.**
 - **If his/her experience is limited in what you are interested to do, find more coordinators in the country and abroad.**

- Orient your carrier
- Read a lot of papers in your field
- Publication policy.
- Why? When? How? Where? Co-authors. Bibliometric records
- ISI Web of Science (ISI WoS). Impact factor. Hirsch index.
- H index - attempts to measure both the productivity and impact of the published work of a scientist or group. The index is based on the set of the scientist's most cited papers and the number of citations that they have received in other publications.
- Why articles in high-impact factor have more coauthors?

Average no. of co-authors (3 years):

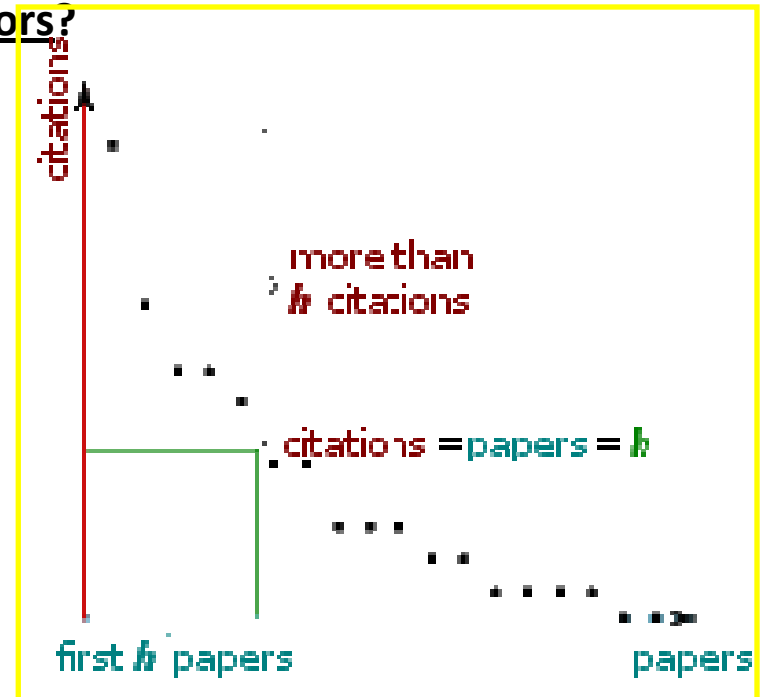
Physical Review B: 4.5

Physical Review Letters: 4.6

Nature Physics: 7.0

Nature Nanotechnology: 6.3

Dilema: Productivity vs. Creativity.



Google Scholar - sites and programs that can help you calculate the h-index. These are generally free and quality varies. Recommended sites and services:

1. Quadsearch <http://quadsearch.csd.auth.gr/index.php?lan=1&s=2> (i.e. the 'Science' search)
2. Scholar H-index Calculator <https://addons.mozilla.org/en-US/firefox/addon/45283>
(add-on for Mozilla Firefox browser, adds metrics to the standard Google Scholar site, easy to use but only calculates for the articles on the current page, a maximum of 100)
3. Scholarometer <http://scholarometer.indiana.edu/>
(add-on for Mozilla Firefox and Google Chrome browsers – appears as a sidebar when installed)
4. Publish or Perish <http://www.harzing.com/pop.htm>
(application that calculates a wide variety of metrics)

A Google Scholar gadget for calculating author citations and other statistical information regarding publications. [more...](#)

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- Covers a wider range of sources, (especially conferences, technical reports and eprints).
- Easier to calculate some of the less common metrics (since it isn't linked to proprietary data – thus more innovation)
- Free

Disadvantages

- May be considered a less authoritative than Web of Science
- More difficult to search where there are multiple authors with the same family name & initials – limited options to refine

Practical Hints for Success in Science & Academia.

- To become an university professor you should be also a scientist in your field. You cannot make university career without scientific research.
- Be sure you like to be a scientist. If not, choose another field.
- Be aware that scientist does not become rich (even in developed countries!)
- Realize that science requires more self-discipline than many other majors, but offers more rewards.
- Be organized. Persevere and be determined to succeed. Be ready to deal with strict deadlines.
- Do not believe in your results, check!
- Focus and finish.
- Work hard and manage your time wisely. Hard work and organizational skills are key factors. Be generous with your time and efforts. The most difficult balance to strike is between work and your family or personal life. Learn to take time off, and don't work on holidays.
- Be prepared for insuccess.

Dan Shechtman (2011 Nobel in Chemistry for the discovery of quasicrystals)

- From 1912 to 1982, all materials found were ordered and periodic “The story of my discovery is a paradigm shift in that science, he said.” When he found a quasimaterial, which is ordered but not periodic, the first paper he submitted in 1984 to a physics journal was “like a tennis match”:

- “It was one-two and it was back on my desk.” A second journal published it many months later. Finally, a paper in Physical Review Letters got through to the community: “When this paper appeared, all hell broke loose.”

Shechtman said he had many years of rejection. “For some time I felt quite lonely.” Linus Pauling, for instance, objected to the idea of quasiperiodicity:

“There are no quasicrystals, just quasiscientists.” Ultimately, “When he died, so died the opposition,” said Shechtman.

- **Funds**: Learn as soon as possible to write grants.
- Balance exposure and modesty.

You should actively participate in scientific events, but you should also try to balance your exposure with reasonable modesty. We always know less than we should, and there will always be somebody else who is better or smarter. Be sure that you never underestimate any of your audiences.

- **Quality over quantity**. In the long term, the quality of your research will outweigh its quantity. Keep your own standards high. This will help you to establish a (good) reputation in the field. That will be your most important asset.
- **Enjoy yourself**: Of course, this will not be possible every minute, but you need to have fun and enjoy what you do. Then you will be able to transfer this enthusiasm to others and engage them in your research.
- Write high quality papers, and thereby publish in mainstream journals. Read papers and learn how to write well.



Kroto (Nobel 1996, Chemistry): "The best reason to be a scientist: We are the only truly international family, not beholden to any particular country's interests. It is the universe that is our master."

Success at any cost?

- manage the pressure to publish
- publish only when you have understood your results
- avoid speculations
- be honest
- avoid multiplication of results
- be an active co-author
- pay attention on what you put your name!

Epic fraud: How to succeed in science (without doing any)

Envy those who succeed by making up their data? Here's how you can, too!

by John Timmer - July 19 2012, 4:30am -300

SCIENCE POLICY AND EDUCATION 287



Tracking retractions as

Retraction Watch

Major fraud probe of Japanese anesthesiologist Yoshitaka Fujii may challenge retraction record

with 10 comments

We have learned that a widely published Japanese anesthesiologist is under investigation by his university over concerns that he engaged in repeated fraud for decades that has tainted roughly 180 articles—many of which may be retracted as a result.

In a related move, the journal *Clinical Therapeutics* is retracting papers by the researcher, Yoshitaka Fujii, most recently of Toho University, in Tokyo. Judy Pachella, managing editor of the journal, confirmed the retractions but would not state how many papers were affected. *Clinical Therapeutics* published 17 articles by Fujii, between 2003 and 2010.



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19 February 2011

Increasing your h-index by reclaiming misspelled citations

Tags: [citations](#), [h-index](#), [web of science](#)
Posted in [Tips](#)

Here is a short contribution on how to correct misspelled citations in Web of Science. Citations have become the currency of science, which is used to reward scientists and scientific institutions. Small variations in citation scores can make millions of pounds difference in the financial outcomes of national **Research Assessments**. Therefore keeping your citation record updated is of critical importance.



ISI Web of
SCIENCE.

ISI Web of Science has the possibility of reclaiming citations which have been misspelled in the original manuscripts. To do this, go to 'Cited Reference Search' and type in your name and initials in the author field. You will get a list of articles with the number of citations. Importantly, the articles which do not have a record assigned to them (i.e. the 'View Record' link) have not been correctly assigned to your citation record. This may be because the year, volume number, or page is incorrectly referred.

Next thing to do is select the miscited articles and click 'Finish Search'.

Otto Muskens



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14 September 2012

My group, Your group, or Our group

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Ad Lagendijk



In science the dilemma of either cooperating or competing is everywhere. The situation is never black or white and depends on the discipline. In this post I will limit myself to the typical small-science group model: one group leader, one or two postdocs and a number – typically between 4 and 6, of PhD students.

Pressure

All the group member are under pressure. PhD students have to finish their thesis in time, with preferably a couple of first-author articles in glossy magazines.

On the level of PhD students there is already possibly competition if the work of PhD students overlap either with respect to subject or when equipment is shared.

The postdoc's first aim is to get at some academic place a tenure track position. He needs papers. The PhD students might not want him on their papers, or the other way around.

Satisfaction? Success & Recognition?

- (maybe) not in your country, nor in your institution;
- reputation in the international community in your field.



9th European Conference on Applications of Polar Dielectrics
Roma, August 25th-29th 2008

Award

The International Advisory Board of the 9th European Conference on Applications of Polar Dielectrics (ECAPD9) held in Roma (Italy) from August 25th to 29th 2008 selected the contribution titled

Functional properties of the
 $(1-x)\text{BiFeO}_3 - x\text{BaTiO}_3$ solid solutions

presented by

Felicia Prihor

as one of the six best works of the conference.

Roma, August 29th 2008

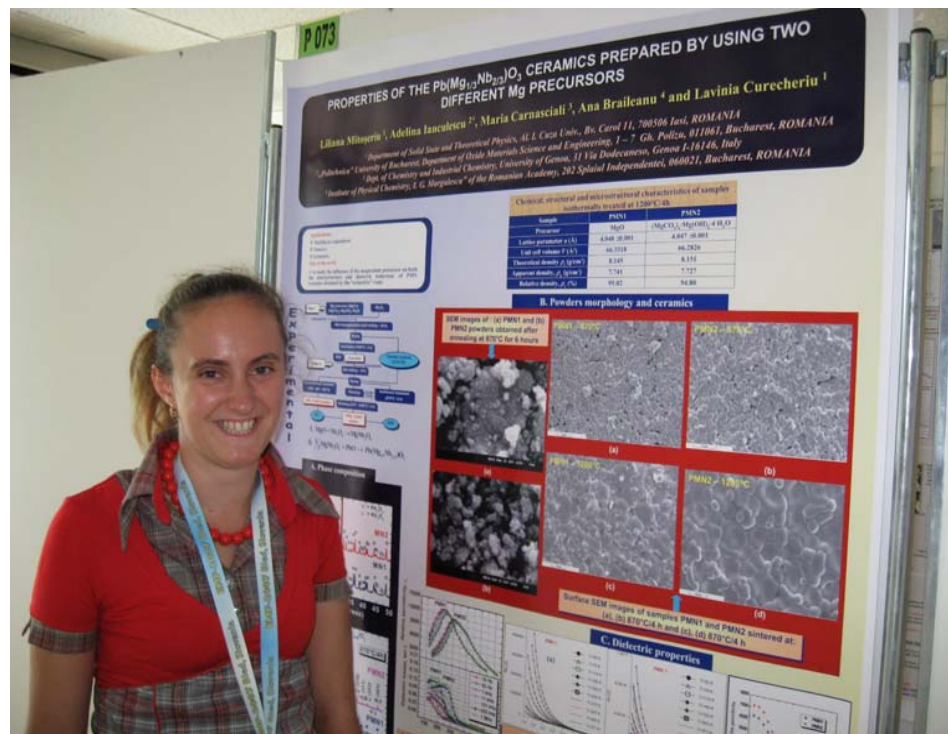
On behalf of the International Advisory Board
Prof. Francesco Michelotti
Conference Chair

Sponsored by



HAMAMATSU





**Dr. Lavinia Curecheriu, premiul I in
competitia nationala a Societatii Romane
de Ceramica, reprezentant al Romaniei la
*Student contest of the European Ceramic
Society, Cracovia, 2009***



Universitatea Alexandru Ioan Cuza
Centrul de Cercetări Aplicate în Fizică și Tehnologii Avansate
Centre for Applied Research in Physics and Advanced Technologies



Se acordă doamnei

Cristina CIOMAGA

Pentru lucrarea
"Magnetoelectric ceramic composites with double-resonant permittivity and permeability in GHz range: A route towards isotropic metamaterials"
publicată în Scripta Materialia de către
Cristina Ciomaga, Ioan Dumitru, Liliana Mitoșeriu, Carmen Galassi,
Alexandra Iordan, Mirela Airimioaei și Mircea Palamaru

PREMIUL CENTRULUI DE EXCELENȚĂ CARPATH PENTRU ANUL 2010

Director,
Profesor Dr. Alexandru STANCU

2010



Universitatea Alexandru Ioan Cuza
Centrul de Cercetări Aplicate în Fizică și Tehnologii Avansate
Centre for Applied Research in Physics and Advanced Technologies



Se acordă domnului

Lavinia CURECHERIU

Pentru lucrarea
"Functional properties of $\text{BaTiO}_3\text{-Ni}_{0.2}\text{Zn}_{0.8}\text{Fe}_2\text{O}_4$ magnetoelectric ceramics prepared from powders with core-shell structure"
publicată în Journal of Applied Physics de către
Lavinia Curecheriu, Maria Teresa Buscaglia, Vincenzo Buscaglia, Liliana Mitoșeriu,
Petronel Postolache, Adeline Ianculescu și Paolo Nanni

PREMIUL CENTRULUI DE EXCELENȚĂ CARPATH PENTRU ANUL 2010

Director,
Profesor Dr. Alexandru STANCU

2010



Universitatea Alexandru Ioan Cuza
Centrul de Cercetări Aplicate în Fizică și Tehnologii Avansate
Centre for Applied Research in Physics and Advanced Technologies



Se acordă doamnei

Felicia GHEORGHIU

Pentru lucrarea
"Non-linear dielectric properties of BiFeO_3 ceramics"
publicată în
Applied Physics Letters

PREMIUL CENTRULUI DE EXCELENȚĂ CARPATH PENTRU ANUL 2011

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Profesor Dr. Alexandru STANCU

2011



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Centrul de Cercetări Aplicate în Fizică și Tehnologii Avansate
Centre for Applied Research in Physics and Advanced Technologies



Se acordă domnului

Leontin PĂDURARIU

Pentru lucrarea
"Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures"
publicată în
Applied Physics Letters de către
Leontin Pădurariu, Lavinia Curecheriu, Carmen Galassi, și
Liliana Mitoșeriu

PREMIUL CENTRULUI DE EXCELENȚĂ CARPATH PENTRU ANUL 2012

Director,
Profesor Dr. Alexandru STANCU

2012



Primul proiect FP7-ESF-COST coordonat de ROMANIA:

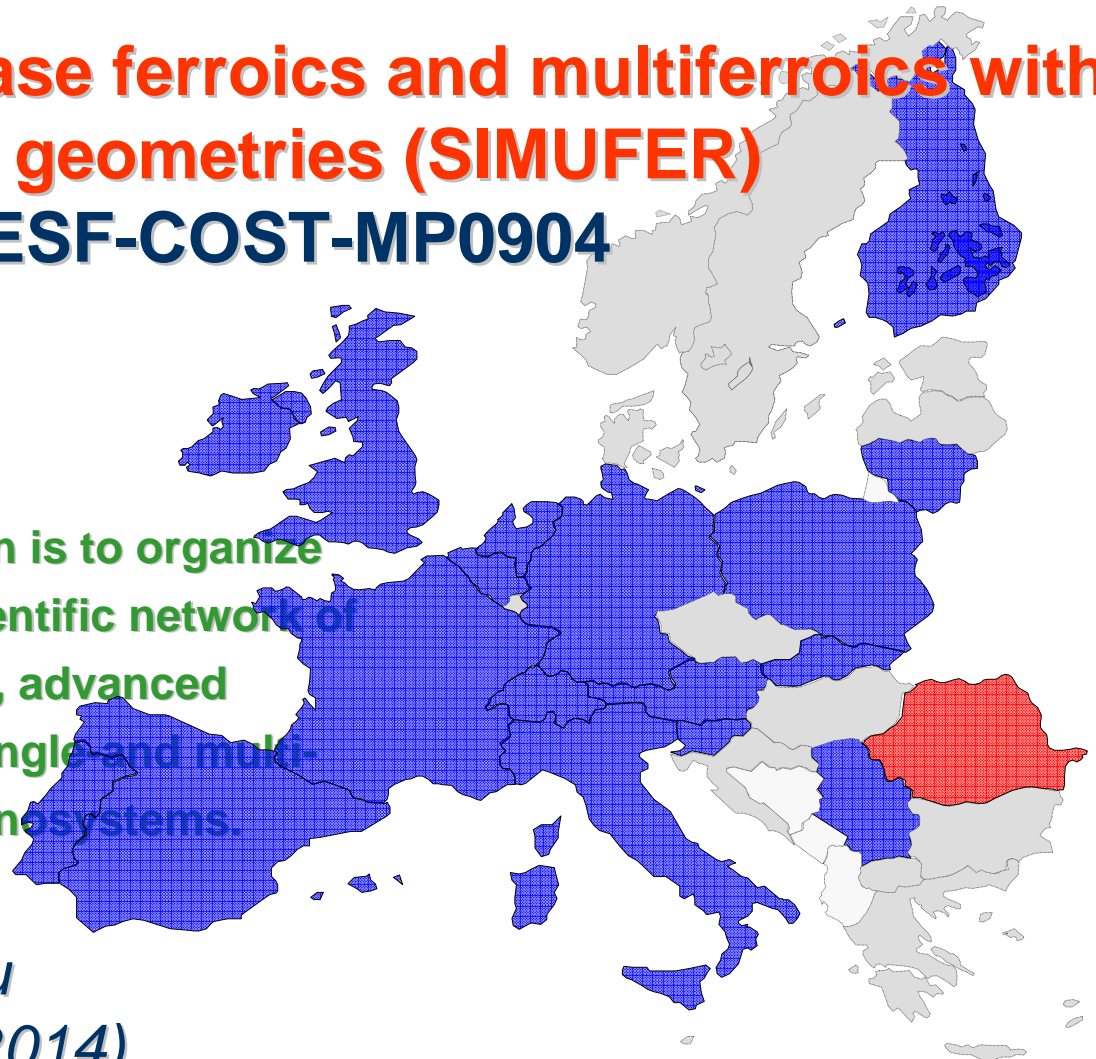


Single- and multiphase ferroics and multiferroics with restricted geometries (SIMUFER) FP7-ESF-COST-MP0904

Objectives

The main goal of SIMUFER Action is to organize a multidisciplinary European scientific network of groups experienced in synthesis, advanced characterization and modeling single- and multi-phase ferroic and multiferroic nanosystems.

*Chair: Liliana Mitoseriu
(running 2010-2014)*



Benefits for being a scientist:

Kroto: ***"The best reason to be a scientist: We are the only truly international family, not beholden to any particular country's interests. It is the universe that is our master."***

"Science only tells you how to think," he concluded. "Others tell you what to think. Think about it."

Prepare yourself to be host



Zhenmian Shao, Univ. Lille, France



Georgio Schileo, Hallam University, Sheffield, UK



Hana Ursic, Raluca Frunza, Josef Stefan Institute, Slovenia



Daniel Popovici & group, Univ. Osaka, Japonia



Catalin Harnagea, Univ. Quebecq, Canada

FACOLTÀ DI INGEGNERIA
Università di Bologna

11 mai 2011, ora 14⁰⁰
Laboratorul de Fizica Dielectricilor (etaj 4, sala 374)

"Integrated Design of Antennas and RF Systems for Ultra Low Power Wearable and Implantable Devices"

Martino Aldrigo

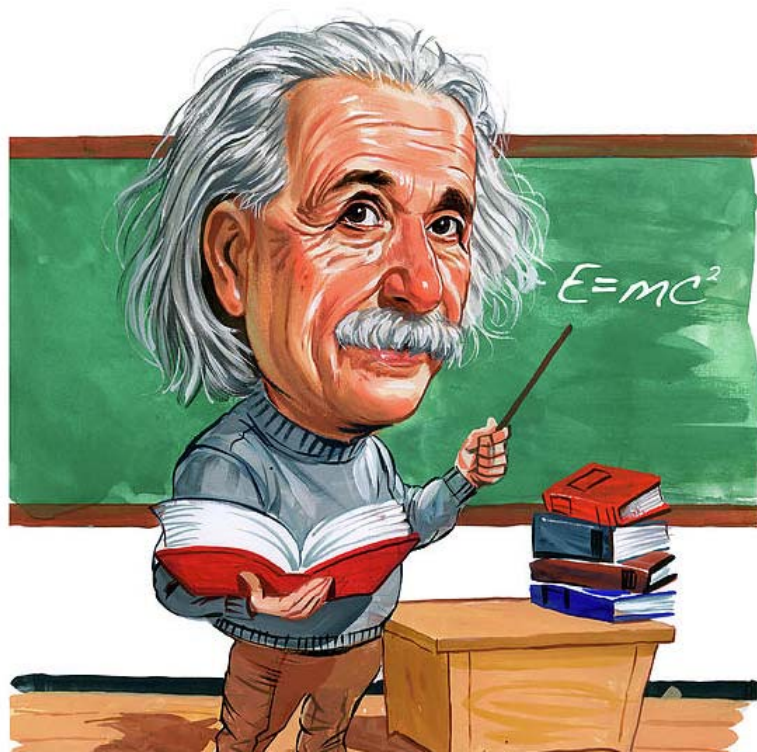
Merry Christmas and a Happy New Year!

Team building...



December 2010





“Try not to become a person of success rather try to become a person of value.”

Albert Einstein