Dimitris Kouzoudis

Assistant Professor, Department of Engineering Sciences
University of Patras
University Campus, Rio, 26504 Patra, Greece
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Personal Status: Married, no kids. Born in 1968.

Education:

Iowa State University, USA 1998
Ph.D. on Physics
Title: "Influence of a perpendicular magnetic field on the thermal depinning of an Abrikosov vortex in a superconducting Josephson junction".

Iowa State University, USA 1994
M.S. on Physics/Materials Science
Title: "Recrystalization of high temperature superconducators".

University Of Ioannina, Greece 1990
B.S. on Physics

Employment:

University of Patras

Department of Engineering Sciences
School of Engineering
Rio, 26504 Patra

Assistant Professor September 2005 – today

Conducted research on the design and the development of remote-query magnetoelastic sensors for monitoring of environmental / chem / bio parameters, such as gas concentration, small mass loads, pressure, flow velocity, humidity, and precipitation of biological salts in aqueous solutions, blood coagulation time, and glucose concentration. Worked on photolysis of water with titanium-oxide nanotubes. Taught Physics courses and laboratories to Engineering students.

Overall teacher evaluation rating ≈ 3.8/4.0.

University of Patras

Department of Materials Science, Patra, Greece

Adjunct Professor September 2003 – August 2004

Taught courses on Electronics and Semiconductor Materials to freshman and sophomore students of Dept. of Materials Science. Conducted research on properties of magneto-elastic sensors.

American College ACT

School of Business, Thessaloniki, Greece

Adjunct Professor September 2002 – August 2003

Taught computer courses to freshman students of Dept. of Economics. Supervised examinations, followed-up student projects, used electronic means and software such as MathCad and Mathematica for better comprehension of lectures from the students.

Institute of Professional Training "Pythagoras"
Thessaloniki, Greece

Computer Trainer & System Administrator September 2002 – August 2003

Taught courses on C/C++, Visual Basic 6.0, VBScript, and Web Development. Administered the Institute's TCP/IP Intranet consisted of approximately a hundred Windows 2000 nodes at the student labs. Set up an e-commerce ASP application on a educational IIS server.

Greek Military
Greece

Mandatory Military Service *May* 2001 – September 2002

New Age Technologies
Louisville, Kentucky, U.S.A.

Consultant May 2000 – May 2001

Offered consulting services to Kindred HealthCare and Sprint Telecommunications for the maintenance and operation of a large data acquisition software for healthcare diagnostics.

University of Kentucky, Electrical Engr. Dept
Lexington, Kentucky, U.S.A.

Research Scientist January 1999 – May 2000

Conducted research on magneto-elastic sensor materials for monitoring different environmental conditions such as pressure, humidity, fluid-flow velocity, glucose concentration and phase transitions. Developed micro-scale patterns on sensors using microfabrication and clean room techniques. Measured the dielectric properties of carbon nanotube materials in the 0.5 – 5.5 GHz range. Developed programming codes for data modeling. Supervised a team of post-doctoral and graduate students. Operated, built and maintained laboratory equipment. Responsible for inventory management. Evaluated literature to gain insight on current methods as well as adapting these procedures to ongoing work. Wrote manuscripts for publication in peer reviewed journals.

Ames Laboratory, US Department of Energy
Ames, Iowa, U.S.A.

Research Assistant - Employee August 1994 – December 1998

Fabricated and processed new materials in thin films by DC/RF magnetron sputtering, thermal evaporation, and glow discharge oxidation. Operated Scanning Electron Microscope to study interfaces in superconducting materials. Performed electromagnetic and thermodynamic measurements on various physical systems. Designed a low temperature He cryostat. Troubleshot and repaired various experimental instruments and electronic devices. Programmed GPIB interfaces for remote data-acquisition Characterized materials using x-rays, JCPDF database, Electron Dispersive Spectroscopy, profilometry, electrical resistivity, and optical microscopy. Performed data fit on theoretical models.

Physics Department
Iowa State University, Ames, Iowa, U.S.A.

Teaching Assistant August 1992 – July 1994

Taught introductory physics courses. Graded homework, quizzes, and exams. Tutored students in help rooms.

National Research Institute "Democretos"
Athens, Greece

Graduate Student May 1991 – July 1992

Attended graduate courses and worked as a lab assistant at the "Lab of Superconductivity and Magnetic Materials" of Professor D. Niarchos.

Editing:

***Editor-in-chief*, "Sensor Letters"**

2008-2010 **"Sensor Letters"**, a peer-review scientific journal, with impact factor 1.6 (2007 rating), which publishes state of the art research on the interdisciplinary field of sensors and sensor technology.

Diploma Thesis Supervision:

2007-8 "Study of Mechanical Properties of Aluminum Bars with the Help of Magnetoelastic sesnors" Kapsalis Ioannins, Material Sciences Dept., University of Patras, Greece, parts 1 and 2.

2010-11 Influence of high frequency magnetic fields on hypethermia of magnetic fluids with iron oxide nanoparticles", Thanos Karavoulias, Physics Dept., University of Patras, Greece, parts 1 and 2.

2010-11 "Sending commands and receiving data over a wired communication between an electromagnetic resonance experiment and a PC running Windows via programming language C", Dimitris Zografos, Dept. of Computer Engineering & Informatics, University of Patras, Greece.

Graduate Courses:

2008 "Special topics on Applied Physics: Theory of Superconductivity", Spring semester

Design and Implementation of the Nano-Lithography Workshop Electron Beam in University of Patras

The experimental team consisting of D. Kouzoudis, P. Kounavis and C. Christides, faculty of the Engineering Sciences Dept., were entirely responsible for the design, implementation, and oversight of the Electron Beam Nano-Lithography Laboratory of University of Patras. The Laboratory Specifications are as follows:

• Scanning Electron Microscope (SEM) with source LaB_6, complete with an electron beam lithography (EBL)

• SEM: accelerating voltage 30 kV, resolution 3 nm, magnification x 300.000, a beam current of 1 pA – 1 μA, with a 5-axis XYZRT base, with optional low vacuum observation of non-conductive samples.

• EBL: Generator nanostructures from PC with basic shapes, resolution 20 nm, recording speed 10 MHz, based laser 2 axles, cutoff time 25 nsec, maximum coverage of 100 x 100 mm, stitching error 10nm.

• Photoresist Spin Coater

• Gold sputtering

Patents:

2002 L. Bachas, G. Barrett, C. A. Grimes, **D. Kouzoudis**, S. Schmidt, Magnetoelastic Sensor for Characterizing Properties of Thin-Film/Coatings. U.S. Patent No. 6,688,162 B2, issued Feb. 10, 2004.

2004 C.A. Grimes, P.G. Stoyanov, **D. Kouzoudis**, U.S. Patent 6,393,921. Magnetoelastic Sensing Apparatus and Method for Remote Pressure Query of an Environment.

Books:

2005 Translation from US English to Greek:
"Principles and Applications of Electrical Engineering", Rizzoni. 3rd edition
http://www.mhhe.com/engcs/electrical/rizzoni/

Invited Departmental Seminars:

2006 University of Patras, Department of Materials Science
Title: "Magnetoelastic Sensors – technology and Applications"
Invited by: Professor D. Photinos

Funded Proposals:

Joint Research and Technology Programs (Greece – Non-European countries), "Fabrication, characterization and testing of a nanostructured composite zeolite-metglas VOC/ odor sensor"
Duration: 2006-2008, Contribution: 60 k€
Partners: University of Minnesota, Department of Chemical Engineering & Materials Science
Role: Principal Investigator

FP6, Priority; CEU funded Specific Targeted Research Programme, "Design and Fabrication of Room Temperature, Remote Query, Carbon Dioxide Sensors",
Duration: 2005-2008, Contribution: 100 k€

Greek Ministry of Education, Karatheodoris Program, "Study of the influence of gas adsorption on the elastic properties of thin zeolite layers",
Duration: 2010-2012, Contribution: 33 k€
Role: Principal Investigator

Greek Ministry of Development, Competitiveness and Entrepreneurship Program, National Strategic Reference Framework, "Development of Innovative Nanocarrier ixabebiloni and study of its applicability in the Treatment of Breast Cancer",
Duration: 2011-2013
Role: Participating Scientist

Conference Co-Organizer:

Eurosensors XXV, 4-7 September, 2011, Athens, Greece.

5th International Zeolite Membrane Meeting (IZMM 2010), May 23rd and 26th 2010, Loutraki-Greece

Miscelaneous:

2008 "Thank you note" from the "Journal of Physical Chemistry" for reviewer services.

2007 Best talk award in
"1st Combined Hellenic – Austrian Congress in Foot and Ankle Disorders"
Myconian Royal Hotel, Mykonos , Greece.

2002 Microsoft Certified Systems Engineer (MCSE).

2002 Cisco Certified Network Associate (CCNA).

Referee to Scientific Journals (date in, date out, journal, editor):

Feb 2005, Biosensors & Bioelectronics, Alice Tang
May 2005, Journal of Photochemistry and Photobiology A, Russ Schmehl
The Journal of Physical Chemistry, Arthur J. Nozik
Nov 2005, Biosensors & Bioelectronics, Alice Tang
Oct 2005, Thin Solid Films, Brigitte Hayeur, Manon Fournier
Mar 2006, Biosensors & Bioelectronics, Anthony P F Turner / Alice X J Tang
Apr 2006, Journal of Materials Science, K. Chattopadhyay
Jun 2006, Biosensors & Bioelectronics, Anthony P.F. Turner
Jul 2006, Journal of Physical Chemistry, Christa Trok
Aug 2006, Sensors & Actuators: A. Physical, L. Lin
Oct 2006, Sensors & Actuators: B. Chemical, J. Banjac
Sep 2006, Analytical Chemistry, Reinhard Niessner
Oct 2006, The Journal of Physical Chemistry, Svetla Tzvetkova
Mar 2007, Thin Solid Films, Brigitte Hayeur / Manon Fournier
Apr 2007, Sensors & Actuators: B. Chemical, Ramaier Narayanaswamy
Jul 2007, Journal of Physical Chemistry, Harriet Bradham
Oct 2006, Thin Solid Films, Brigitte Hayeur / Manon Fournier
Jan 2008, Sensors & Actuators: B. Chemical, Ramaier Narayanaswamy
Mar 2008, The Journal of Physical Chemistry, Prashant Kamat
Mar 2008, Bioelectrochemistry, Rolando Guidelli
Jun 2008, Solar Energy Materials & Solar Cells, Greg P. Smestad
Jun 2008, Inorganic Chemistry, Kenneth R. Poeppelmeier
Sept. 2008, Journal of Materials Science, Amiee A. DeSouza
Nov 2008, Sensors & Actuators: B. Chemical, Zbigniew Brzozka
Oct 2008, Sensors & Actuators: B. Chemical, Ramaier Narayanaswamy
Nov 2008, Electrochemistry Communications, R. Compton
Dec 2008, Sensors, Kathy Lai
Jan 2009, Crystal Growth & Design, Allan S. Myerson
Feb 2009, ACS Applied Materials & Interfaces, Kirk S. Schanze
Feb 2009, Electrochemistry Communications, Tomasz Gromelski
Jul 2009, Langmuir, Tejal A. Desai
Jan 2010, Biomaterials, Peggy O'Donnell
May 2010, Sensors & Actuators: A. Physical, P.J. French
May 2010, Sensors & Actuators: B. Chemical, Ramaier Narayanaswamy
Aug 2010 Journal of Nanostructured Polymers and Nanocomposites, Prof. Galiotis
Nov 2010, Sensors & Actuators: A. Physical, P.J. French
Jan 2011, Sensors (special issue: 10 Years Sensors), Ellen Lu,
Sept 2011 - Oct 2011, Biosensors, Grace Lu
Oct 2011, Energy & Fuels, Bob Weber
Oct 2011, Int. Journal of Environmental Analytical Chemistry, Prof. Albaiges
Dec 2011, International Journal of Environmental Analytical Chemistry, Professor Albaiges

Dimitris Kouzoudis

Mar 2012, Radiation Measurements, Adrie J.J. Bos

International Conference Presentations

(**bold** is used when the speaker is the resume author).

1) **D.Kouzoudis**, T.Baimpos, V.Nikolakis, INVITED TALK,*"Zeolite Thin Films as Chemically Active Layers for Sensing Applications",* International Conference on Management, Manufacturing and Materials Engineering (ICMMMMm 2011), Zhengzhou, China, December 9-11, 2011

2) **D.Kouzoudis**, T.Baimpos, V.Nikolakis, *"The selective detection of dangerous VOC's using zeolite/Metglas magnetoelastic sensors",* Eurosensors XXV, Athens, Greece, 4-7 September, 2011.

2) V.Nikolakis, **D.Kouzoudis**, T.Baimpos, INVITED TALK,*"The use of zeolite/magneto-elastic sensors to detect Volatile Organic Compounds",* International Conference for Material Application for Sensors and Transducers, IC-MAST 2011, Kos, Greece, 13-17 May 2011.

3) V.Nikolakis, T.Baimpos, D.Kouzoudis, *"Measuring the Adsorption Induced Strain of Zeolite Membranes Using Magnetoelastic Sensor",* AIChe Annual Meeting Salt Palace Convention Center Salt Lake City, UT, 7-12 November, 2010.

4) **D.Kouzoudis**, V.Nikolakis, T.Baimpos, *"The use of magneto-elastic sensors to study the elastic properties of thin zeolite films"*, 8th European Conference on Magnetic Sensors and Actuators, (EMSA), Bodrum, Turkey, 4-7 July, 2010.

5) T.Baimpos, **D.Kouzoudis**, L.Gora, V.Nikolakis, *"Measuring the effect of adsorption on zeolite film mechanical properties using magnetoelastic sensors",* 5th International Zeolite Membrane Meeting, Loutraki, Greece, 23-26 May, 2010.

6) T.Baimpos, D.Kouzoudis, L.Gora, F.Kapteijn, V.Nikolakis, *"Detection of Volatile Organic Compounds (VOCs) using zeolite -Metglas composite sensors"*, 5th International Zeolite Membrane Meeting, Loutraki, Greece, 23-26 May, 2010.

7) V.Nikolakis, T.Baimpos, D.Kouzoudis, *"Detection of Volatile Organic Compounds (VOC's) using zeolite –Metglas composite sensors"*, 3rd International Symposium Advanced Micro and Mesoporous Materials, Albena resort, Bulgaria, 6-9 September, 2009.

8) T.Baimpos, V.Nikolakis, D.Kouzoudis, *"Measurement of the elastic properties of zeolite films using Metglas-zeolite composite sensors"*, Zeolites and Related Materials: Trends, Targets and

Challenges Proceedings of 4th International FEZA Conference, Paris, France, 2-6 September, 2008.

9) L.Góra, J.Kuhn, T.Baimpos, D.Kouzoudis, V.Nikolakis, F.Kapteijn, *"Monocrystal-thin b-oriented silicalite-1 layer-Metglas assembly for selective sensor application",* 10th International Conference on Inorganic Membranes (ICIM10) Tokyo, Japan, 18-22 August, 2008.

10) I.G.Giannakopoulos, T.Baimpos, **D.Kouzoudis**, V.Nikolakis, *"Sensing of hydrocarbons and VOC's using zeolite –Metglas composite sensors"*, 4th International Zeolite Membrane Meeting, Zaragoza, Spain, 23-27 July, 2007.

11) D. Kouzoudis, E. Panagiotopoulos E. , S. Marangos, C. Matzaroglou, "1st Combined Hellenic – *Austrian Congress in Foot and Ankle Disorders",* 21-23 Sept. 2007, Mykonos , Greece.

12) I.G.Giannakopoulos, T.Baimpos, D.Kouzoudis, V.Nikolakis, *"Synthesis of faujasite-Metglas composite films for gas sensing application"*, 9th Int. Conf. On Inorganic Membranes, Lillehammer, Norway, 25-29 June, 2006.

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Publication List:

36 publications, 783 citations (reference: Scopus)

T. Baimpos, L. Gora, V. Nikolakis, and **D.Kouzoudis**, Selective detection of hazardous VOCs using zeolite/Metglas composite sensors Sensors and Actuators, A: Physical, Article in Press (2012)

T. Baimpos, V. Tsukala, V. Nikolakis, and **D. Kouzoudis**, "A Modified Method for the Calculation of the Humidity Adsorption Stresses Inside Zeolite Films Using Magnetoelastic Sensors", Sensor Lett. 10, 878-884 (2012)

T. Baimpos, V. Nikolakis, and **D. Kouzoudis**, "A new method for measuring the adsorption induced stresses of zeolite films using magnetoelastic sensors", Journal of Membrane Science, Accepted Manuscript (2011), In Press

D. G. Dimogianopoulos, D. E. Mouzakis, **D .Kouzoudis**, "Statistical damage diagnosis in smart systems via contact-free MetGlas sensors and stochastic non-linear modelling of system output data", Int. J. Materials and Product Technology 41 (2011) 39-60

Bakandritsos A, Mattheolabakis G, Chatzikyriakos G, Szabo T, Tzitzios V, **Kouzoudis D**, Couris S, Avgoustakis K., "Doxorubicin Nanocarriers Based on Magnetic Colloids with a Bio-polyelectrolyte Corona and High Non-linear Optical Response: Synthesis, Characterization, and Properties", Advanced Functional Materials 21 (2011: 1465-1475

T. Baimpos, **D. Kouzoudis**, V. Nikolakis, L. Gora, "Are Zeolite Films Flexible?", Chem. Mater., 2011, 23 (6), pp 1347–1349

T. Baimpos, **D. Kouzoudis**, V. Nikolakis, "Use of a Zeolite LTA Film for the Selective Detection of Light Hydrocarbons", Sci. Adv. Mater. 2 (2010) 215-218

T. Baimpos, P. Boutikos, V. Nikolakis, **D. Kouzoudis**, "A polymer-Metglas sensor used to detect volatile organic compounds", Sensors And Actuators A-Physical 158 (2010) 249-253

D. Kouzoudis, "Proof of the phase coherence in the Bardeen–Cooper–Schrieffer theory of superconductivity from first principles", European Journal of Physics 31 (2010) 239–248

C. Matzaroglou, P. Bougas, E. Panagiotopoulos, A. Saridis, M. Karanikolas, **D. Kouzoudis**, "Ninety-degree chevron osteotomy for correction of hallux valgus deformity: clinical data and finite element analysis". The Open Orthopaedics Journal 01 (2010) 4:152-6.

T. Baimpos, V. Nikolakis, and **D. Kouzoudis**, "Measurement of the elastic properties of zeolite films using Metglas-zeolite composite sensors", Studies in Surface Science and Catalysis 174 (suppl. part A, 4th International FEZA Conference, 2-6 September 2008, Paris), pp. 665-668 (2008).

D. Kouzoudis and D. E. Mouzakis, “A 2826 MB Metglas ribbon as a strain sensor for remote and dynamic mechanical measurements”, Sensors and Actuators A: Physical
Volume 127, Issue 2, 13 March 2006, Pages 355-359

S. C. Roy, J. R. Werner, **D. Kouzoudis**, and C. A. Grimes, “Use of Magnetoelastic Sensors for Quantifying Platelet Aggregation I: Whole Blood and Platelet Rich Plasma”, Sensor Letters 6 (2008), 280–284

T. Baimpos, I. G. Giannakopoulos, V. Nikolakis and, **D. Kouzoudis**, "Effect of Gas Adsorption on the Elastic Properties of Faujasite Films Measured Using Magnetoelastic Sensors", Chem. Mater., 20 (2008), 1470–1475

S. Chen, M. Paulose, C. Ruan, G. K. Mor, O. K. Varghese, **D. Kouzoudis**, C. A. Grimes, “Electrochemically synthesized CdS nanoparticle-modified TiO2 nanotube-array photoelectrodes: Preparation, characterization,and application to photoelectrochemical cells”, J. Photochem. Photobiol. B: Chem 177 (2006) 177–184

S. C. Roy, J. R. Werner, **D. Kouzoudis**, and C. A. Grimes, “Use of Magnetoelastic Sensors for Quantifying Platelet Aggregation I: Whole Blood and Platelet Rich Plasma”, Sensor Letters 6 (2008), 280–284

V. Nikolakis, **D. Kouzoudis**, I. G. Giannakopoulos, and T. Baimpos, "The effect of gas adsorption on the elastic properties of faujasite films measured using magnetoelastic sensors", Chem. Mater., 20 (4), 1470–1475, 2008

S. Chen, M. Paulose, C. Ruan, G. K. Mor, O. K. Varghese, **D. Kouzoudis**, C. A. Grimes, “Electrochemically synthesized CdS nanoparticle-modified TiO2 nanotube-array photoelectrodes: Preparation, characterization,and application to photoelectrochemical cells”, J. Photochem. Photobiol. B: Chem 177 (2006) 177–184

I. G. Giannakopoulos, **D. Kouzoudis**, C. A. Grimes, and V. Nikolakis, “Synthesis and characterization of a composite zeolite-Metglas carbon dioxide sensor,” Adv. Func. Mater. 15 (2005) 1165-1170

N. Bouropoulos, **D. Kouzoudis**, and C. A. Grimes, “The real-time, in situ monitoring of calcium oxalate and brushite precipitation using magnetoelastic sensors,” Sensors and Actuators B 109 (2005) 227-232

L. G. Puckett, G. Barrett, **D. Kouzoudis**, C. A. Grimes, L. G. Bachas, “Monitoring blood coagulation with magnetoelastic sensors,” Biosensors and Bioelectronics 18 (2003) 675-681

D. Kouzoudis and C. A. Grimes, Invited Paper, "Remote query fluid-flow measurement using magnetoelastic thick-film sensors," J. Appl. Phys 87 (2000)

D. Kouzoudis and C. A. Grimes, "The frequency response of magnetoelastic sensors to stress and atmospheric pressure," Smart Mater. Struct. 9 (2000) 1 – 5.

D. Kouzoudis, "Exact analytical partition function and spin gap for a 2x3 quantum spin ladder," J. Magn. Magn. Mater. 214, 112-118 (2000).

C. A. Grimes and **D. Kouzoudis**, "Remote query measurement of pressure, fluid-flow velocity, and humidity using magnetoelastic thick-film sensors," Sensors and Actuators 84 (2000) 205 - 212.

C. A. Grimes, **D. Kouzoudis**, C. Mungle, "Simultaneous measurement of liquid density and viscosity using remote query magnetoelastic sensors", Rev. Sci. Instr. 71, 3822 (2000).

C. A. Grimes and **D. Kouzoudis**, "Magnetoelastic sensors in combination with nanometer-scale honeycombed thin film ceramic TiO2 for remote query measurement of humidity," J. Appl. Phys 87 (2000).

C. A. Grimes, P. G. Stoyanov, **D. Kouzoudis**, and K. G. Ong, "Remote query pressure measurement using magnetoelastic sensors," Rev. Sci. Instr. 70, 4711 (1999).

C.A. Grimes, C. Mungle, **D. Kouzoudis**, S. Fang, P.C. Eklund, "The 500 MHz to 5.50 GHz Complex Permittivity Spectra of Single-Wall Carbon Nanotube-Loaded Polymer Composites", Chemical Physics Letters, vol. 319, Issue 5-6, pp. 460-464 (2000).

C. A. Grimes, K. G. Ong, K. Loiselle, P. G. Stoyanov, **D. Kouzoudis**, Y. Liu,C. Tong, and F. Tefiku, "Magnetoelastic sensors for remote query environmental monitoring," J. Smart Mater. Struct. 8, 639 (1999).

C. A. Grimes, **D. Kouzoudis**, K. G. Ong, and R. Crump, "Thin-film magnetoelastic microsensors for remote query biomedical monitoring", Biomedical Microdevices 2:1, 51-60 (1999).

D. Kouzoudis, M. J. Breitwisch, and D. K. Finnemore, "Edge barrier pinning for a single superconducting vortex," Phys. Rev. B 60, 10508 (1999).

D. Kouzoudis, "Exact analytical partition function and energy levels for a Heisenberg ring of N=6 spin 1/2 sites,"J. Magn. Magn. Mater. 189, 366-376 (1998).

J. E. Ostenson, M. J. Breitwisch, **D. Kouzoudis**, and D. K. Finnemore, "Growth of a Transient Phase during Bi(2212) to Bi(2223) Transformation", Advances in Cryogenic Engineering (Materials), Vol. 44, Edited by Balachandran et al., Plenum Press, New York (1998).

D. Kouzoudis, "Heisenberg s=1/2 ring consisting of a prime number of atoms," J. Magn. Magn. Mater. 173, 259-265 (1997).

M. J. Breitwisch, **D. Kouzoudis**, J. E. Ostenson, D. K. Finnemore, and U. Balachandran, "Characterization of Interfacial Growth Between Bi(2212) and Ag Coating," IEEE Trans. Appl. Super. 7, 1691 (1997).

D. K. Finnemore, Ming Xu, **D. Kouzoudis**, T. Bloomer, M. J. Kramer, S. McKernan, U. Balachandran, and P. Haldar, "Growth of nucleation sites on Pb-doped Bi(2212)," Appl. Phys. Lett. 68, 556 (1996).