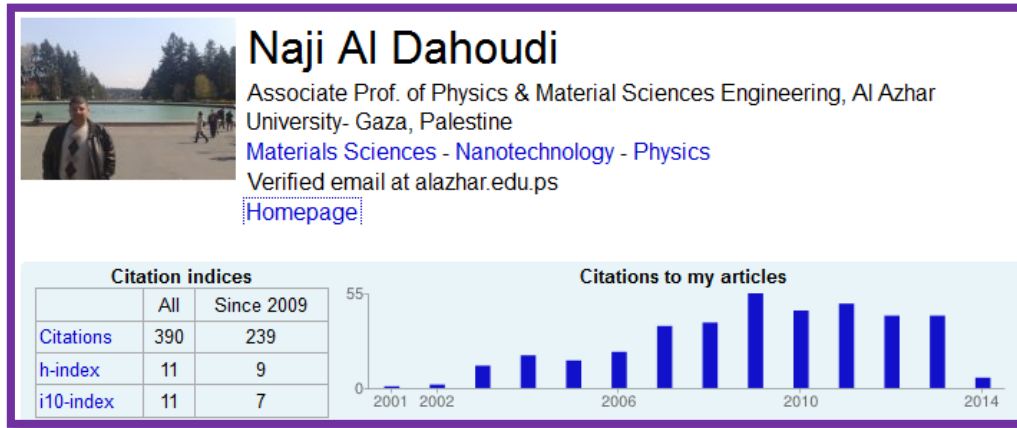


Curriculum Vitae

Dr. Eng. Naji M. Al-Dahoudi

http://scholar.google.com/citations?hl=en&user=mWRMRswAAAAJ&view_op=list_works&pagesize=100



Personal Information

Date of Birth: 28.08.1969

Place of Birth: Rafah-Gaza

Citizenship: Palestinian

Marital status: Married, 5 children

Languages: Arabic: mother language
English: very good
German: good

Address: Physics department
Al-Azhar university-Gaza
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Education

B. Sc. in Physic (1994) Birzeit University- Birzeit, West Bank

M. Sc. in Physic (1996) Yarmouk University- Irbid, Jordan

PhD in material sciences Engineering Leibniz INM- University of Saarland, Saarbrücken, Germany

(1999-2003)

Employment

Current Position: *Associate Prof. of Physics & Material Sciences Engineering*

1996-1998

Assistant Lecturer, Physics department, Al-Azhar University - Gaza

July 2003-Jan 2004

Scientific collaborator, development of Transparent conducting Coatings on plastic foils, INM, Saarbrücken, Germany

Feb 2004- Feb 2009

Assistant professor, physics department Al-Azhar University - Gaza

July 2005-Sep. 2005

Visiting scientist, *Leibniz INM, Saarbrücken; Carbon nanotubes as transparent conductive layer on glass and polymeric substrates.*

Aug. - Sep. 2007

Visiting scientist, *IMST-Kiel: Developing colloidal semiconducting oxides layers as gas sensing materials.*

Nov 2008- March 2010

Chairman of Physics Department, Al Azhar University- Gaza

August-Sep. 2009

Visiting scientist, *Institute of Powder technology for glass and ceramics, university of Saarland, Germany: Developing functional semiconducting materials for optical and chemical sensation*

Oct. 2010-Aug. 2011

*Visiting scholar (**Fulbright Scholar**), Material Science & Engineering Department, University of Washington, Seattle, USA: Nanostructured Materials for Dye Sensitized Solar Cells.*

June – Aug. 2012

Visiting scientist, *Leibniz INM, Saarbrücken; Doping zinc oxide nanopowders to produce TCO colloids to be deposited on glass substrates.*

June-Aug. 2013

Visiting scientist, *Leibniz INM, Saarbrücken; AZO and GZO nanoparticulate layers as an alternatives for ITO coatings on glass substrates.*

Honors:**1992, 1993,****1994**

Mousa Naser studentship for distinctive students, Birzeit University

DAAD (German Exchange Academic Program)

1994-1996

scholarship for obtaining Master degree, Yarmouk University, Jordan

DAAD scholarship for obtaining PhD degree,

1999-2003

Institut für Neue Materialien (INM), Germany.

The Ministry of Higher Education and Scientific

2004- 2005

Research Award for Distinguished Research in Basic Science, Gaza-Palestine.

Aug.-Sep.2007

DAAD Study Visit scholarship, Institute of material sciences & technology (IMST), Kiel, Germany

Aug.-Sep.2009

DAAD Study Visit scholarship, Institute of Powder technology for glass and ceramics, University of Saarland, Germany

Oct. 2010-Aug. 2011**Fulbright Scholarship**, Material Science & Engineering Department, University of Washington, Seattle, USA.**Aug.-Sep.2012**

DAAD Study Visit scholarship, Leibniz INM, Saarbrücken, Germany.

Research interests**General:**

Solid state physics, thin film technology, Material sciences, Nanotechnology (nanotubes, nanoparticles, nanowires) and smart materials (gas sensors, renewable energy).

Specific:

Synthesis of nanocrystalline particles via wet chemical method.

Producing functional nanostructured thin film materials, like transparent conductive coatings, Dye sensitized solar cells for Renewable Energy applications, and gas sensing coatings on different glass and Polymeric substrates through sol-gel techniques. Thin film

Characterization electrical, optical, mechanical, structural and surface properties)

Teaching & Training Experience

- More than 18 academic semesters of teaching Physics courses for the undergraduate level, such as: General Physics 1 and 2, Medical Physics, Thermodynamics, Electricity and Magnetism, Modern Physics, Classical Mechanics, Solid State Physics, Quantum Mechanics 1 and 2 and Thin Film Technology.
- (June 2008- Sep. 2009) Conducting training for school science teachers in Gaza strip to employ the use of the lab and design experiments relevant to the curriculum.

Professional Societies

- ❖ International sol-gel society (Sydney)
- ❖ Board Member of the Palestinian German Association for Academics (PGAA).
- ❖ Vice Chairman of the Organizing Committee of the 1st and 2nd International conference of Basic & Applied Sciences, Al-Azhar University-Gaza, 10-12 October 2010 and 9-11 October 2012.

References

Prof. M. A. Aegerter	Résidence Vert-Pré Ch. des Placettes, 6 CH - 1041 BOTTENS - Switzerland	michel.aegerter@bluewin.ch
Prof. Guozhong Cao	Materials Science and Engineering UNiversity of Washington Seattle, WA 98195-2120	gzcao@u.washington.edu
Prof. Y. I. Salamin	Physics Department American University of Sharjah Sharjah United Arab Emirates	ysalamin@aus.edu
Prof. N. Ayoub	Physics Department Yarmouk University, Irbid Jordan	nayoub@ju.edu.jo

Publications of Dr. Naji AL-Dahoudi

Master thesis:

- 📖 *Experimental and Theoretical Studies of Ba-Fe and Fe₂O₄ Ferrofluids, Msc. Thesis, Yarmouk University, Irbid-Jordan, August 1996.*

PhD thesis:

- 📖 *Wet Chemical Deposition of Transparent Conducting Coatings Made of Redispersable Crystalline ITO Nanoparticles on Glass and Polymeric Substrates, PhD thesis, University of Saarland, Saarbrücken-Germany, SHAKER VERLAG, ISBN 3-8322-1852-1, ISSN 1618-5722, Aachen Germany, July 2003.*

Before PhD

- M.A. Aegerter, **N. AL-DAHOUDI**, Wet-chemical processing of transparent and antiglare conducting ITO coating on plastic substrates, in: Sol-Gel Coating of Plastic Substrate, Special issue of Journal of Sol-Gel Science and Technology, *27*, 81-89-2003.
- N. Al-Dahoudi, M.A. Aegerter, Wet Coating Deposition of ITO Coatings on Plastic Substrates, Journal of Sol-Gel Science and Technology, *26*, 693-697, 2003.
- **N. Al-Dahoudi**, M. A. Aegerter, Transparent and antiglare conducting coating deposited by wet chemical processes, Key Engineering Materials, volume 230-232, 555-558, 2002.
- **N. Al-Dahoudi**, H. Bisht, C. Goebbert, T. Krajewski, M. A. Aegerter, "Transparent conducting, antistatic and antistatic-antiglare coatings on plastic substrates", Thin Solid Film, *392*, 299-304, 2001.doi:10.1016/S0040-6090(01)01047-1
- **N. Al-Dahoudi**, M. A. Aegerter, Conducting, antistatic and antistatic-antiglare coatings made with hybrid sols", Mol. Cryst. Liq. Cryst., volume 374, 91-100, 2001.
- **N. Al-Dahoudi**, M.A. Aegerter, Redispersable nanopowders for wet chemical coatings processes: Application to transparent conducting coatings, Materials Science, volume 29 (1), 71-79, 2001.
- C. GOEBBERT, H. BISHT, **N. AL-DAHOUDI**, R. NONNINGER, M. A. AEGERTER, H. SCHMIDT, "Wet chemical deposition of crystalline, redispersable ATO and ITO nanoparticles", Journal of Sol-Gel Science and Technology, 201-204 (2000).

After PhD

- **Naji Al Dahoudi**, Comparative Study of Highly Dense Aluminium and Gallium Doped Zinc Oxide Sol-Gel Thin Films, **Bulletin of Materials Science(2014)**, Accepted for publication. (<http://www.ias.ac.in/matersci/>)
- A. AlKahlout, **N. Al Dahoudi**, S. Heusing, K. Moh, R. Karos, P.W. de Oliveira, Structural, Electrical and Optical Properties of Aluminum Doped Zinc Oxide Spin Coated Films Made Using Different Coating Sols, **Nanosci. Nanotechnol. Lett.**, *6*, 37-43 (2014).
- **Naji Al Dahoudi**, Ingrid Grobelsek, Peter Oliveira, The Impact of Trioxadecanoic Acid on the Performance of Dye Sensitized Solar Cells Based Titanium Oxide Nanoparticles, **Materials Focus (2013)**, Vol. 2, 6, 465-468,.
- **Naji Al Dahoudi**, Amal AlKahlout, Sabina Heusing, Petra Herbeck-Engel, Rudolf Karos & Peter Oliveira, *Indium doped zinc oxide nanopowders for transparent conducting coatings on glass substrates*, **J Sol-Gel Sci Technol (2013)** 67:556-564, DOI 10.1007/s10971-013-3114-6.
- **Naji Al Dahoudi**, Qifeng Zhang, Guozhong Cao, Low Temperature Processing of Titanium oxide Nanoparticles Photoanode for Dye Sensitized Solar Cells, **Journal of Renewable Energy**, 2013, Article ID 545212, 8 pages, doi:10.1155/2013/545212.
- **Naji Al Dahoudi**, Qifeng Zhang, Guozhong Cao, Alumina and Hafnia ALD Layers for a Niobium-Doped Titanium Oxide Photoanode, **International**

- Journal of Photoenergy**, 2012, Article ID 401393, 6 pages
doi:10.1155/2012/401393.
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 - **N. Al Dahoudi**, Formation of a Conductive Nanocomposite on Plastic and Glass Substrates Through Wet Chemical Deposition of Well Dispersed Carbon Nanotubes: First Sharjah International Conference on Nanotechnology and Its Applications. AIP Conference Proceedings, Volume 929, pp. 100-104 (2007).
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Posters and Proceedings

- **Naji Al Dahoudi**, Dye Sensitized Solar Cells using TiO₂ nanoparticles, 2nd International Conference of Basic & Applied Sciences, Al Azhar University-Gaza, 9-11 Oct., 2012.
- **Naji Al Dahoudi**, Formation of a functional nanostructured Materials on Glass substrates via Chemical Routes, 1st International Conference of Basic & Applied Sciences, Al Azhar University-Gaza, 10-12 Oct., 2010.
- **Naji Al Dahoudi**, Formation of a conductive nanocomposite on plastic and glass substrates through wet chemical deposition of well dispersed carbon nanotubes, 2nd International Workshop on Smart Materials & Structures, Kiel-Germany, August 29-31, 2007.
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- J. Puetz, G. Gasparro, **N. AL-DAHOUDI**, M.A. Aegerter, "Vielseitige Nassbeschichtungsverfahren für funktionelle Oxidschichten auf Glas", 77. Glastechnische Tagung, Deutsche Glastechnische Gesellschaft e.V. (DGG), 26-28. Mai **2003**, Leipzig.
- **N. Al-Dahoudi**, A. Solieman, M.A. Aegerter, "Properties of transparent conducting coatings (TCO) made by chemical nanotechnology process", in: Proceedings of the 105th Annual Meeting & Exposition of the American Ceramic Society, April 27-30, **2003**, Gaylord Opryland, Nashville, Tennessee/USA.
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- **N. AL-DAHOUDI**, M.A. AEGERTER, Redispersable nanopowders for wet chemical coatings processes: Application to transparent conducting coatings, in: Proceedings of the Sol-Gel Materials Conference 2001, 13.-16. Juni **2001**, Rokosowo/Polen.
- **N. AL-DAHOUDI**, M. A. AEGERTER, Transparent and antiglare conducting coating deposited by wet chemical processes, in: Proceedings of the 1st International Materials Symposium MATERIAIS **2001**, 9.-11. April 2001, Coimbra/Portugal.
- **N. AL-DAHOUDI**, M.A. AEGERTER, Wet Coating Deposition of ITO Coatings on Plastic Substrates, in: Proceedings of the Sol-Gel 2001, 11th International Workshop on Glasses, Ceramics, Hybrids and Nanocomposites from Gels, 16.-21.09. **2001**, Abano Terme/Padova/Italy.
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- **N. AL-DAHOUDI**, H. BISHT, C. GOEBBERT, T. KRAJEWSKI, M. A. AEGERTER, "Transparent conducting, antistatic and antistatic-antiglare coatings on plastic

substrates", in: Proc. of the 3rd International Conference on Coatings on Glass (3rd-ICCG), ed. H. A. Meinema, C.I.M.A. Spee, M. A. Aegerter, October 29-November 2, **2000**, Maastricht, pp. 555-564.