**Latika Menon**

Associate Professor Founder Department of Physics Menon Laboratories, Inc.

Northeastern University 28 Dane Street

Boston, MA 02115 Somerville, MA 02143

<http://nuweb.neu.edu/lmenon> http://www.menonlaboratories.com

Phone: 617-373-4530 Phone: 339-224-2787

E-mail: [l.menon@neu.edu](mailto:l.menon@neu.edu) E-mail: latika@menonlaboratories.com

**Professional Preparation:**

High Tech MBA: Northeastern University, Boston, MA, 2014

PhD. (Physics): Tata Institute of Fundamental Research, Bombay, India, 1997

MSc. (Physics): Indian Institute of Technology, Kanpur, India, 1991

BSc. (Physics): Calcutta University, Calcutta, India, 1989

**Appointments:**

* Associate Professor of Physics, Northeastern University (NU), Sept.‘09-
* Assistant Professor of Physics, Northeastern University, Sept.‘05-Aug.‘09
* Assistant Professor of Physics, Texas Tech University (TTU), Aug.‘02- Aug.‘05
* Research Asst. Prof. of Elec. Engr: University of Nebraska, Lincoln, USA, Nov.‘00 -Jul.‘02
* Post-doc. Res. Associate: Dept. of Elec. Engr., Univ. of Nebraska, Lincoln, Jan.‘98-Sept.‘00
* Visiting Researcher: University of Witwatersrand, Johannesburg, SA, Apr.-Oct.‘97
* Visiting Researcher: Van der Waal’s-Zeeman lab., Univ. of Amsterdam, Aug.-Oct.‘96
* Research Scholar: Tata Inst. of Fundamental Research, Bombay, India, Mar ‘92-Apr. ‘97

**Selected List of Publications (over 80 published articles)**

**Articles in Books and Encyclopedia**

1. “Nanoarrays Fabricated from Nanoporous Alumina” by **L. Menon** in Encyclopedia of

Nanoscience and Nanotechnology, Marcel-Dekker Publications, 2004

**Selected Journal Articles**

2.“Towards tailored functionality of titania nanotube arrays: Interpretation of the magnetic- structural correlations”, Pegah M. Hosseinpour, Eugen Panaitescu, Don Heiman, **Latika Menon** and Laura H. Lewis, Vol. 28, page 1304 (2013)

3.“Impact of adsorbed alkali ions on photoelectrochemical hydrogen production by titania

nanotubes", C. Richter and **L. Menon**, Perspective Article, Energy and Environmental Science,

3, 427 (2010)

4.“Controlled Attachment of Gold Nanoparticles on Ordered Titania Nanotube Arrays", M. Abdelmoula, E. Panaitescu, M. Phan, David Yin,C. Richter, L.H. Lewis and **L. Menon**, Journal of Materials Chemistry, 19, 4483 (2009)

5."Engineering Low-aspect Ratio Carbon Nanostructures: Nanocups, Nanorings, and Nanocontainers", Hyunkyung Chun, Myung Gwan Hahm, Yoshikazu Homma, Rebecca Meritz, Koji Kuramochi, **Latika Menon**, Lijie Ci, P. M. Ajayan , Y. J. Jung, ACS Nano, 3, 1274 (2009)

6. "Effect of Potassium Adsorption on the Photochemical Properties of Titania Nanotube Arrays", Christiaan Richter, Cherno Jaye, Eugen Panaitescu, Daniel A. Fischer, Laura H. Lewis, Ronald J. Willey, **Latika Menon**, JMC, 19, 2857 (2009), **Journal Cover Page**

7. "Ultra-High Aspect Ratio Titania Nanotubes", C. Richter, Z. Wu, E. Panaitescu, R. Willey and **L. Menon**, Advanced Materials, 19, 946 (2007)

**Patents:**

1.Titania nanotubes prepared by anodization in chloride-containing electrolytes, C. Richter, R. Willey and L. Menon, #8709502, Licensed to Menon Laboratories, Inc.

2. Titania Nanotubes for filtration, Eugen Panaitescu and Latika Menon, Application No. 61/761,472

3. Low Aspect Ratio Nanostructures, Y.J. Jung, H. Chun and L. Menon, WO 2010/10508 A1

4. All-Inorganic, scalable, sustainable, easy to manufacture ultra-low-cost solar cells, Christiaan Richter, Eugen Panaitescu and Latika Menon, 61/764,980

#### Popular Press (clickable links)

#### [The science of water purification](http://www.northeastern.edu/cos/wpcontent/uploads/2015/01/Husky_Science_Monitor.pdf), College of Science Newsletter

#### [Cleantech Open Blog Entry](http://northeast.cleantechopen.org/en/blog/two-startups-keeping-arsenic-and-oil-out-of-our-water)

#### [Tables Turn as Nature Imitates Art](http://phys.org/news/2013-12-tables-nature-imitates-art.html), NU news

#### [Self-Arranging Titania Nanotubes Promise Ultra-Low-Cost Solar Cells, Solar Novus](http://www.solarnovus.com/index.php?option=com_content&view=article&id=5994:self-arranging-titania-nanotubes-promise-ultra-low-cost-solar-cells&catid=52:applications-tech-research&Itemid=247)

#### [National Synchrotron Light Sources](http://www.nsls.bnl.gov/newsroom/science/2009/05-392.htm), NIST newsroom

[Small Times](http://nextbigfuture.com/2009/02/research-advances-nanowire-technology.html), NU news

[Nano Science and Technology Institute](http://www.nsti.org/news/item.html?id=297) News

[Nanotechnology Foundation of Texas Newsletter](http://www.nanotechfoundation.org/Newsletter/Newsletter_June2_2004)

[Institute of Physics News](http://www.nanotechweb.org/articles/news/3/6/1/1)

[Nano-welding could join molecular devices, New Scientist](http://www.newscientisttech.com/article/dn8930-nanowelding-could-join-molecular-devices.html)

[Not Today But Here Tomorrow - The future of quantum computing at UNL](http://engineering.unl.edu/publications/blueprint/archive/Spring04/heretomorrow.htm)

**Synergistic Activities:**

Acted as Reviewer for Peer-reviewed journals and Panel Reviewer for National Science Foundation Proposals,

Acted as Chair of conference sessions, and as member of Scientific committees for international conferences,

Acting as Member of Editorial Board of journals

**Honors/Awards**:

Elected Fellow of Institute of Physics (IOP)

Elected Fellow of the Institute of Materials, Mining and Minerals (IOM3)

Massachusetts Clean Energy Company Catalyst Awardee, 2013

Top Ten Finalist Mass. Catalyst Award, 2010

NSF CAREER Award 2004