Yung Joon Jung

Mechanical and Industrial Engineering Department
Northeastern University
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A. EDUCATION

Rensselaer Polytechnic Institute, Materials Science and Engineering, Ph.D. (2003)
Thesis: Building Micro and Nanoscale Architectures with Carbon Nanotubes

Inha University, Republic of Korea, Metallurgical Engineering, B.S. (1999)

B. PROFESSIONAL EXPERIENCE

Associate Professor with Tenure (August 2011-Current)
Department of Mechanical and Industrial Engineering, *Northeastern University*, Boston, MA

Assistant Professor (August 2005-July 2011)
Department of Mechanical and Industrial Engineering, *Northeastern University*, Boston, MA

Visiting Professor (International Scholar Fellowship, March 2013-September 2013)
Department of Physics, KyungHee University, Seoul. Korea

Post-Doctoral Research Associate (August 2003- August 2005)
Department of Materials Science and Engineering
Rensselaer Polytechnic Institute, Troy, USA
Mentor: Prof. Pulickel M. Ajayan (currently at Rice Univ)

Visiting Researcher (May 2002- December 2002)
Device Physics Group, *NTT Basic Research Laboratories*, Atsugi, Japan
Mentor: Prof. Yoshikazu Homma (currently at Tokyo Univ. of Science)

Graduate Research Assistant (January 2000- July 2003)
Department of Materials Science and Engineering
Rensselaer Polytechnic Institute, Troy, USA
PhD thesis advisor: Prof. Pulickel M. Ajayan (currently at Rice Univ)

C. PUBLICATIONS

Peer-Reviewed Journals Articles

52 Journal articles including in **Nature**, **Nature Photonics**, **Nature Communications**, **Nano Letters, Proceeding of National Academy of Science, Small, ACS Nano, JACS** etc. and over **2700 citations**, **'h'-index: 25**, 2 Book Chapters**.** For list below: * denotes corresponding author

1. "Sculpting carbon bonds: allotropic transformation through solid-state re-engineering of –sp^2 carbon" H. Jung, P. T. Araujo, Y. Kim, S. Jung, X. Jia, S. Hong, C.W. Ahn, S. Kar, J. Kong, M. S. Dresselhaus and Y. J. Jung*, Accepted, ***Nature Communications***
2. "Voltage-switchable Photocurrents in Single-wall carbon Nanotube – Silicon Junctions for Analogue and Digital optoelectronics" Y. Kim, H. Jung, S. Park, B. Li, F. Liu, J. Hao, Y. Kwon, Y.J. Jung*, and S. Kar*, ***Nature Photonics***, 8, 239, (2014)

3. "Carbon Nanotube Core Graphitic Shell Hybrid Fiber" M. Hahm, J. Lee, A. HC Hart, S. M. Song, J. Nam, H. J. Jung, D. P. Hashim, B. Li, T. N Narayanan, C. Park, Y. Zhao, R. Vajtai, Y. A. Kim, T. Hayashi, B. Ku, M. Endo, E. Barrera, Y. J. Jung, E. L. Thomas, P. M. Ajayan, ***ACS Nano***, 7, 10971, (2013)
4. "A high-performance H_2S detection by redox reaction in semiconducting carbon nanotube-based devices" H. Jung, Y. Kim, S. Park, A. Datar, H. Lee, Jun Huang, S. Somu, A. Busnaina, Y.J. Jung* and Y. Kwon*, ***Analyst,*** 138, 7206, (2013)
5. "Liquid metal nanodroplet dynamics inside nanocontainers"H. Jung, H. Chun, S. Park, S. Kang, C. W. Ahn, Y. Kwon, M. Upmanyu, P. M. Ajayan, and Y.J. Jung*, ***Scientific Reports (Nature Publishing Group),*** 3**,** 2588; DOI:10.1038/srep02588 (2013).
6. "Tunable Graphene–Silicon Heterojunctions for Ultrasensitive Photodetection", X. An, F. Liu, Y.J. Jung, and S. Kar, ***Nano Letters***, 13, 909, (2013)
7. "Adhesion of Graphene Sheet on Nano-patterned Substrates with Nano-pillar Array", G. Li, C. Yilmaz, X. An, S. Somu, S. Kar, Y.J. Jung, A. Busnaina, and K. Wan, ***Journal of Appl. Phys.,*** 113, 244303, (2013)
8. "A Facile Route for 3D Aerogels from Nanostructured 1D and 2D Materials", S. Jung, H. Jung, M. Dresselhaus, Y.J. Jung, and J. Kong, ***Scientific Reports (Nature Publishing Group),*** *2,* Article number:849, (2012)
9. "Transparent, Flexible Supercapacitors from Nano-engineered Carbon Films", H. Y. Jung, M. B. Karimi, M. G. Hahm, P. M. Ajayan, Y. J. Jung*, ***Scientific Reports (Nature Publishing Group)***, 2, Article number: 773, (2012)
10. "Carbon Nanotube-Nanocup Hybrid Structures for High Power Supercapacitor Applications", M. G. Hahm, A. L. M. Reddy, D. P. Cole, M. Rivera, J. A. Vento, J. Nam, H. Y. Jung, Y. L. Kim, N. T. Narayanan, D. P. Hashim, C. Galande, Y. J. Jung, M. Bundy, S. Karna, P. M. Ajayan, R. Vajtai, ***Nano Letters***, 12, 5616 (2012)
11. "Large-Area Synthesis of Graphene on Palladium and their Raman Spectroscopy", X. An, F. Liu, Y. J. Jung, S. Kar, ***Journal of Physical Chemistry C***, 116(31), 16412-16420, (2012)
12. "Chemical vapor deposition-grown vertically aligned single-walled carbon nanotubes length assurance", H. Abuhimd, G. M. Uddin, A. Zeid, Y. J. Jung, S. Kamarthi, ***The International Journal of Advanced Manufacturing Technology***, DOI 10.1007/s00170-012-4426-3, (2012)
13. "Bundling Dynamics Regulates the Active Mechanics and Transport in Carbon Nanotube Networks and their Nanocomposites", M. G. Hahm, H. Wang, H. Y. Jung, S. Hong, S. G. Lee, S. R. Kim, M. Upmanyu, and Y. J. Jung*, ***Nanoscale***, 4, 3584, (2012)-***Cover Page***
14. "Towards Engineering Nanoporous Platinum Thin Film for Highly Efficient Catalytic Applications", H. Jung, D. Kim, H. Chun, S. Kim, J. Byun, and Y.J. Jung*, ***Advanced Energy Materials***, 1, 1126, (2011)
15. "Highly Organized Two- and Three- Dimensional Single-Walled Carbon Nanotubes-Polymer Hybrid Architectures," B. Li, M. G. Hahm, Y. L. Kim, H. Y. Jung, S. Kar, and Y. J. Jung*, ***ACS Nano,*** 5, 4826, (2011)
16. M. C. Strus, A. N. Chiaramonti, Y. L. Kim, Y. J. Jung, and R. R. Keller, "Accelerated Reliability Testing of Highly Aligned Single-Walled Carbon Nanotube Networks Subjected to DC Electrical Stressing", ***Nanotechnology***, 22, 265713, (2011)
17. "Ultra-thin SWNTs Films with Tunable, Anisotropic Transport Properties" B. Li , H. Y. Jung , H. Wang, Y. L. Kim, T. Kim, M. G. Hahm, A. Busnaina, M. Upmanyu , and Y. J. Jung *, ***Advanced Functional Materials***, 21, 1810, (2011)

18. "Cleaning Organized Single-walled Carbon Nanotube Interconnect Structures for Reduced Interfacial Contact Resistance", Y. L. Kim, H. Y. Jung, S. Kar, and Y. J. Jung *, ***Carbon***, 49, 2450, (2011)
19. "Investigation of Electrical Transport in Hydrogenated Multiwalled Carbon Nanotubes", A. L. Friedman, H. Chun, D. Heiman, Y. J. Jung, and L. Menon, ***Physica B,*** 406, 841 (2011)
20. "Structure Controlled Synthesis of Vertically Aligned Carbon Nanotubes using Thermal Chemical Vapor Deposition Process", M. Hahm, Y. Kwon, A. Busnaina, and Y. Jung*****, ***Journal of Heat Transfer***, 13, 031001(2011)
21. "Topological transitions in carbon nanotube networks via nanoscale confinement", S. Somu, H. Wang, Y. Kim, L. Jaberansari, T. Kim, M. G. Hahm, B. Li, X. Xiong, Y. J. Jung*****, M. Upmanyu, and A. Busnaina, ***ACS Nano***, 4, 4142-4148 (2010)
22. "Possible Room-Temperature Ferromagnetism in Hydrogenated Carbon Nanotubes", A. L. Friedman, H. Chun, Y. J. Jung, D. Heiman, E. R. Glaser, and L. Menon, ***Physical Review B***, 81, 115461-115464 (2010)
23. "Highly Aligned Scalable All-metallic Singlewalled Carbon Nanotubes Arrays for Electrical Nanoscale Interconnects", Y. Kim, B. Li, X. An, M. Hahm, L. Chen, M. Washington, P. Ajayan, S. Nayak, A. Busnaina, S. Kar, and Y. Jung*****, ***ACS Nano***, 3, 2818-2826 (2009)
24. "Connected Nanowire/Nanotube and Nanotube/Nanowire/Nanotube Heterojunctions with Branched Topology", G. Meng, F. Han, X. Zhao, B. Chen, D. Yang, J. Liu, M. Kong, X. Zhu, Q. Xu, Y. J. Jung, Y. Yang, Z. Chu, M. Ye, S. Kar, R. Vajtai, and P. M. Ajayan, ***Angewandte Chemie***, 48, 1-6 (2009)
25. "Directed Assembly of High-Density Single-Walled Carbon Nanotube Patterns on Flexible Polymer Substrates", X. Xiong, C. Chen, P. Ryan, A. Busnaina, Y. J. Jung and M. R. Dokmeci, ***Nanotechnology,*** 20, 295302-295307 (2009)
26. "Engineering Low-aspect Ratio Carbon Nanostructures**",** H. Chun, M. Hahm, Y. Homma, R. Meritz, K. Kuramochi, L. Menon, L. Ci, P. Ajayan, and Y. Jung*****, ***ACS Nano***, 3, 1274-1278 (2009)
27. "Large Scale Highly Organized SWNTs Networks for Electronic Devices", L. Jaberansari, M. Hahm, T. Kim, S. Somu, A. Busnaina and Y. Jung, ***Applied Physics A,*** DOI 10.1007/s00339-009-5194-2 (2009)
28. "Mechanism of Very Large Scale Assembly of SWNTs in Template Guided Fluidic Assembly Process", L. Jaber-Ansari, M. G. Hahm, S. Somu, Y. Echegoyen, A. Busnaina, Y. J. Jung*****, ***Journal of the American Chemical Society***, 131, 804-808 (2009)
29. "Epitaxially Grown GaN Nanowire Networks", Z. Wu, M. G. Hahm, Y. J. Jung***** and L. Menon, ***Journal of Materials Chemistry***, 19, 463-467 (2009)
30. "Diameter Selective Growth of Vertically aligned Single Wall Carbon Nanotubes and Study on Their Growth Mechanism", M. G. Hahm, Y. Kwon, E. Lee, C. W. Ahn and Y. J. Jung*****, ***Journal of Physical Chemistry C***, 112, 17143-17147 (2008)
31. "Mechanical and Electrical Evaluation of Parylene-C Encapsulated Carbon Nanotube Networks on a Flexible Substrate", C. Chen, E. Lopez, Y. Jung, S. Muftu, S. Selvarasah, and M. Dokmeci, ***Applied Physics Letters***, 93, 093109-093112 (2008)
32. "Building Highly Organized SWNT Networks Using Template Guided Assembly", X. Xiong, L. Jaberansari, M. Hahm, A. Busnaina, and Y.J. Jung*****, ***Small***, 3, 2006-2010 (2007)

33. "Scalable Nanotemplate Assisted Directed Assembly of SWNTs for Nanoscale Devices", P. Makaram, S. Somu, X. Xiong, A. Busnaina, N. McGruer and Y. J. Jung, ***Applied Physics Letters***, 90, 243108 -243111 (2007)
34. "Aligned Carbon Nanotube-Polymer Hybrid Architectures for Diverse Flexible Electronic Applications", Y.J. Jung*, S. Kar, S. Talapatra, C. Soldano, G. Vishwanathan, X. Li, Z. Yao, F. Ou, R. Vajtai, P.M. Ajayan, O. Nalamasu, ***Nano Letters***, 6, 413-419 (2006)
35. "Electrical Characterization of Carbon Nanotube Structures", R. Vajtai, S. Biswas, B. Wei, G. Meng, Y.J. Jung, and P.M. Ajayan, ***Nanopages***, 1, 45-68 (2006)
36. "Parallel Arrays of Individual Addressable Singlewalled Carbon Nanotube Field Effect Transistors ", S. Lastella, G. Mallick, R. Woo, S.P. Karna, Y.J. Jung, P.M. Ajayan, C. Ryu, D. Rider, and I. Manners, ***Journal of Applied Physics***, 99, 024302-024306 (2006)
37. "Bottom-up Growth of Carbon Nanotube Multilayers", S. Li, A. Cao, Y.J. Jung, R. Vajtai, and P.M. Ajayan, ***Nano Letters***, 5 (10), 1997-2000 (2005)
38. "Controlled Fabrication of Hierarchically Branched Nanopores, Nanotubes and Nanowires", G. Meng, Y.J. Jung, A. Cao, R. Vajtai, and P.M. Ajayan, ***Proceeding of National Academy of Science,*** 12(20), 7074-7078 (2005)
39. "Room Temperature Resonant Tunneling of Electrons in Carbon Nanotube Junction Quantum Well", S. Biswas, Y.J. Jung*, A. Vijayaraghavan, R. Vajtai, L. Schowalter, and P.M. Ajayan, ***Applied Physics Letters,*** 86, 183101-183104 (2005)
40. "Ordered Ni Nanowire Tip Arrays", G. Meng, A. Cao, J. Cheng, A. Vijayaraghavan, Y.J. Jung, M. Shima, and P.M. Ajayan, ***Journal of Applied Physics***, 97 (6), 064303-061407 (2005)
41. "Density Control of Single Walled Carbon Nanotubes using Patterned Iron Nanoparticle Catalysts Derived from Phase Separated Thin Films of a Polyferrocene Block Copolymer", S. Lastella, Y. J. Jung, H. Yang, R. Vajtai, P. M. Ajayan, C. Ryu, D. Ridder, and I. Manners, ***Journal of Materials Chemistry***, 14(12), 1791-1794 (2004)
42. "Straightening Suspended Single-Walled Carbon Nanotube by Ion Irradiation", Y. J. Jung, Y. Homma, R. Vajtai, Y. Kobayashi, T. Ogino, and P. M. Ajayan, ***Nano Letters***, 4(6), 1109-1113 (2004)
43. "Building and Testing Organized Architectures of Carbon Nanotubes", R. Vajtai, B. Q. Wei, Y. J. Jung, A. Cao, S. K. Biswas, G. Ramanath and P. M. Ajayan, ***IEEE Transactions on Nanotechnology***, Invited Paper, 2, 355-364 (2003)
44. "Role of Transition Metal Catalysts in Single-Walled Carbon Nanotube Growth in Chemical Vapor Deposition", Y. Homma, Y. Kobayashi, T. Ogino, D. Takagi, Y.J. Jung, and P.M. Ajayan, ***The Journal of Physical Chemistry B***, 107, 12161-12164 (2003)
45. "High-density, Large Area Single-Walled Carbon Nanotube Networks on Nano-Scale Patterned Substrates", Y. J. Jung*, Y. Homma, T. Ogino, Y. Kobayashi, D. Takagi, B. Wei, R. Vajtai, and P. M. Ajayan, ***The Journal of Physical Chemistry B***, 107, 6859-6864 (2003)
46. "Mechanism on Selective Growth of Carbon Nanotubes on SiO_2/Si Patterns", Y. J. Jung*, B. Wei, R. Vajtai, P. M. Ajayan, Y. Homma, K. Prabhakaran, and T. Ogino, ***Nano Letters***, 3 (4), 561-564 (2003)
47. "Assembly of Highly Organized Carbon Nanotube Architectures by Chemical Vapor Deposition", B. Q. Wei, R. Vajtai, Y. Jung, J. Ward, G. Ramanath, and P. M. Ajayan, ***Chemistry of Materials***, 15, 1598-1606 (2003)

48. "Building Carbon Nanotubes and their Smart Architectures", R. Vajtai, B.Q. Wei, Z.J. Zhang, Y. Jung, G. Ramanath, and P.M. Ajayan, ***Smart Materials and Structures***, 11, 691-698 (2002)
49. "Growth of Aligned Carbon Nanotubes on Self-Similar Macroscopic Templates", A. Cao, B.Q. Wei, Y. Jung, R. Vajtai, P.M. Ajayan, and G. Ramanath, ***Applied Physics Letters***, 81, 1297-1299 (2002)
50. "Massive Boron Carbide Crystals with Five-Fold Symmetry", B.Q. Wei, R. Vajtai, Y.J. Jung, F. Banhart, G. Ramanath, and P. M. Ajayan, ***The Journal of Physical Chemistry B***, 106, 23-25 (2002)
51. "Organized Assembly of Carbon Nanotubes", B. Q. Wei, R. Vajtai, Y. Jung, J. Ward, Y. Zhang, G. Ramanath and P. M. Ajayan, ***Nature***, 416, 495-496 (2002)
52. "Controlling Growth of Carbon Microtrees", Y. J. Jung*****, B.Q. Wei, J. Nugent and P.M. Ajayan, ***Carbon***, 39, 2195-2201 (2001)

Book Chapters

1. Nanomanufacturing (Ahmed Busnaina), Chapter 4: Controlled Synthesis of Carbon Nanotubes, 79-106, ***CRC Press***, New York, 2006
2. "Highly Organized Single-Walled Carbon Nanotube Networks and Their Electrical Transport Properties", ***Dekker Encyclopedia of Nanoscience and Nanotechnology***, Y. L. Kim, L. Jaber-Ansari, M. C Strus, H. Wang, X. Xiong, S. Somu, A. N Chiaramonti, A. Busnaina, R. R Keller, M. Upmanyu, S. Kar and Y. J. Jung, CRC, 2012

Patents

1. Meng G, Ajayan P, Jung YJ. Controlled Fabrication of Hierarchically Branched Nanopores, Nanotubes, and Nanowires", US Patent Application 20100075130 A1, 2010
2. Xiong X, Busnaina A, Jung YJ, Jaberansari L, Somu S, Upmanyu M. Building Highly Organized Single-walled Carbon Nanotube Networks using Template Guided Fluidic Assembly. US Patent 20100183844 A1, 2010
3. Jung YJ, Chun H, Menon L. Low Aspect Ratio Carbon Nanostructure. US Patent Application 20120027681 A1, WO2010105058 A1, 2012
4. Busnaina A, Jung YJ, Somu S, Kim Y, Dartar A. Chemical Sensor based on Highly Organized SWNT Network. PCT/US2012/51592, 2013
5. Jung YJ, Jung H, Ajayan P. Fabrication of Flexible and Transparent Supercapacitors using Thin-film Carbon Electrodes with Controlled Morphologies. PCT/US13/36586, 2013
6. Jung YJ, Hong S, Jung H, Lee S. High Density Aligned Silicon Nanowire. PCT/US13/47394, 2013
7. Kim Y, Jung H, Jung YJ, Kar S. Photoresponse in Heterojunction Structure of Single-walled Carbon Nanotubes and Silicon for Optoelectronics Applications. US provisional patent 61/702,807 and converted to PCT, 2013
8. Jung YJ, Jung H, Kar S, Arujo P, Dresselhaus M. Allotropic Transformation Through Solid-State Re-Engineering of -sp2 Carbon. US provisional patent 61/832,347, 2013
9. Li B, Hao J, Jung H, Jung YJ, Kar S. Ultra Sensitive Ion Detector Using Carbon Nanotube and Graphene. US provisional patent 61/724,589, and converted to PCT, 2013

D. RESEARCH COLLABORATORS

Dr. Chiwon Ahn (National Nano Fabrication Center-KAIST, Korea), **Prof. Pulickel M. Ajayan** (Rice University, USA), **Prof. Ahmed Busnaina** (Northeastern University, USA), **Dr. Jiyoung Byun** (Korea Institute of Science and Technology, Korea), **Dr. Ann Chiramonti** (NIST, USA), **Prof. Mildred Dresselhaus** (MIT, USA), **Prof. George H. Gilmer** (Colorado School of Mines, USA), **Prof. Yoshikazu Homma** (Tokyo University of Science, Japan), **Prof. Swastik Kar** (Northeastern University, USA), **Dr. Robert Keller** (NIST, USA), **Prof. Dongsik Kim** (POSTECH, Korea), **Dr. Sanghoon Kim** (Korea Institute of Science and Technology, Korea), **Prof. Young-Kyun Kwon** (KyungHee University, Korea), **Dr. Eunah Lee** (Horiba Jobin Yvon Co.), **Dr. Sung-Goo Lee** (Korea Research Institute of Chemical Technology, Korea), **Prof. Carol Livermore** (Northeastern University, USA), **Prof. Carol Livermore** (Northeastern University, USA), **Prof. Guowen Meng** (Chinese Academy of Science, China), **Prof. Latika Menon** (Northeastern University, USA), **Dr. Jeremy Robinson** (Naval Research Laboratories, USA), **Prof. Jonghwan Suhr** (Sungkyunkwan University, Korea), **Prof. Moneesh Upmanyu** (Northeastern University, USA), **Prof. Robert Vajtai** (Rice University, USA), **Prof. Kai-tak Wan**, (Northeastern University, USA), **Prof. Bingqing Wei** (University of Delaware, USA)

E. RESEARCH SUPERVISION

Post-Doctoral Researchers

Dr. Hyunyoung Jung (February 2010-Current, PhD in Chemistry-Seoul National University)

Graduated Students (Thesis/Research Supervision)

Myung Gwan Hahm, PhD (January 2006-August 2010; Current position-Assistant Professor at Shinshu Univ., Japan), **Bo Li, PhD** (September 2008-April 2013; Current position-Postdoctoral Research Associate at Rice University, TX), **Younglae Kim, PhD** (September 2008-May 2013; Current position-Senior Engineer at Intel Co., Portland, OR), **Laila Jaber-ansari, MS** (September 2006-August 2008; Current position-PhD student at Northwestern University, IL), **Fabrizio Martini, MS** (November 2011-April 2013; Current position-Fastcap System Co.), **Rebecca Meritz, BS** (June 2008-December 2009; Current position-Karma Co.)**, Sangwon You, MS** (March 2006-December 2006; Current position-LG Corporation, Korea)

Current Students

Sanghyun Hong, PhD (January 2010-Current; High density, aligned silicon nanowires for energy application), **Ji Hao, PhD** (January 2012-Current; Engineering SWCNT for optoelectronic device applications), **A-Mi Yu, PhD** (January 2012-Current; Vertically aligned SWCNT-Si nanocluster Li ion battery), **Zane Gavin, UG Research** (September, 2014-Current), **Juan Delhoyo, UG Research** (September, 2014-Current)

F. COURSE TAUGHT

1. MATL 7350: Mechanical Behavior of Materials and Strengthening Mechanism
2. ME 2340: Introduction to Materials Science and Engineering
3. ME 2341: Laboratory for Materials Science and Engineering
4. MIMU701: Senior Capstone Project
5. MTMG262: Nanomanufacturing

G. RECOGNITIONS

1. Publication in Nature Photonics (Vol 8, 239, 2014) is featured in ***IEEE Spectrum***, ***Materials Today***, ***Nano Today***, etc.

2. A Recipient of international scholar fellowship, KyungHee Univ. Korea, 2013
3. Nominated by Northeastern University for Blavatnik Award for Young Scientist, 2014
4. PhD Student, Bo Li received Outstanding Graduate Student Award in Research at Northeastern University, 2012
5. Invited talk in MRS Spring 2009 was featured in *MRS website*
6. Publication in ACS Nano (vol. 3, page 1274, 2009) was highlighted in *Nanowerk.com* "New morphologies of graphitic carbon in nanotechnology applications"
7. Publication in JACS (vol. 131, page 804, 2009) was highlighted in *physorg and newswise*
8. Publication in Journal of Materials Chemistry (vol. 19, page 463, 2009) and Nanoscale (vol. 4, 2012) were selected as a cover and featured in media
9. Interviews on carbon nanotube growth was featured in *Small Times* September/October, 2007, "A growing need nanotube synthesis tools await electronics applications"
10. Selected as one of 2006 US-Japan Young Researchers in Nanotechnology and Nanomanufacturing, sponsored jointly by the *NSF, USA and MEXT*, Japan
11. Publication in Nano Letters (vol. 6, page 413, 2006) recognized as one of the most cited papers in 2006 of the journal by publisher and featured in ***Nature****: "Display of flexibility", Laszlo Forro*, Vol 441, 414 (2006) , ***Technology Review*** *"Flexible CRT display"* (2006), ***Materials Today*** *"Direct Route to flexible composites"* Vol 9, 22 (2006), ***Discovery Channel News*** *etc*