

Curriculum Vitae
Seung Yol Jeong, Ph.D

Personal Information

Office Address: Engn-Materials Science and Engineering,
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Education

2008-Present Postdoctoral Associate (The Nano-materials & Devices Group)
Department of Materials Science and Engineering, Rutgers University, New Jersey, USA

2006-2007 Postdoctoral Associate (Carbon Nanotube Research Lab.)
Department of Physics, Institute of Basic Science, Sungkyunkwan University, Suwon,
Korea

2003-2006 Ph. D., Physics (Specialized in Carbon Nanotubes)
Department of Physics, Sungkyunkwan University, Suwon, Korea

2001-2003 M.S., Physics
Department of Physics, Sungkyunkwan University, Suwon, Korea

1994-2001 B.S., Material Science and Engineering
Department of Material Science and Engineering, Chonbuk National University,
Chonju, Chonbuk, Korea

Research Experiences

2008-Present Postdoctoral associate (Department of Materials Science & Engineering, Rutgers University)

- Room temperature deposition of SWCNTs (Singlewalled Carbon Nanotubes) by using thermal CVD (Chemical Vapor Deposition) on various substrates
- Fabrication of SWCNT-TFTs(Singlewalled Carbon Nanotubes-Thin Film Transistors)

2006-2007 Postdoctoral associate (Department of Physics, Institute of Basic Science, Sungkyunkwan University)

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- Fabrication of SWCNT-FET (Singlewalled Carbon Nanotube-Field Film Transistor)
 - Fabrication of a SWCNTs-TFT using semiconducting SWCNTs
 - Selective removal of metallic SWCNTs using NHFA (nitronium hexafluoroantimonate) treatment
- 2001-2005 Research project assistant (BK 21, Department of Physics, Sungkyunkwan University)
- Fabrication of SWCNT-FET using photolithography and e-beam lithography
 - Fabrication of SWCNT-Gas sensor
 - Deposition of SiNTs (Silicon Nanotubes) on AAO (Anodic Aluminum Oxide) templates using MBE (Molecular Beam Epitaxy)
- 2005- 2005 Visiting researcher (Nanoscience Centre, Cavendish Lab, University of Cambridge, UK)
- Growth of VO₂ nanowires on sapphire substrates (a, c, and r cut)
 - Fabrication of SWCNT-FET (Singlewalled Carbon Nanotube-Field Effect Transistor) and thin MWCNT-FET (Multiwalled Carbon Nanotube-Field Effect Transistor) using e-beam lithography
- 2007-2007 Visiting researcher (Nanochemistry Laboratory, College of Chemistry and Molecular Ennineering, Peking University, Beijing, China)
- Temperature-mediated growth of SWCNT intramolecular junction on a silicon substrate
 - Transfer technique for as-grown SWCNTs from SWCNT grown substrates to various plastic substrates such as PET

Associated projects

- 2008-2008 Senior researcher (Korea Research Foundation, Seoul, Korea)
- Development of high performance carbon nanotube-based flexible thin film transistor
- 2006-2007 Associated researcher (Samsung Electronics Co., Yongin, Korea)
- Characteristics of contact resistance between carbon nanotube and metal
- 2005-2007 Associated researcher (Korea Research Foundation, Seoul, Korea)
- Design of electronic structures of carbon nanotubes and their application
- 2004-2007 Associated researcher (Ministry of Science and Technology, Seoul, Korea)
- Application of carbon nanotubes
- 2004-2006 Associated researcher (Ministry of Environment, Seoul, Korea)
- Selective gas detection using carbon nanotubes with functionalization and control of growth condition

Publications

1. **Seung Yol Jeong**, Seong Chu Lim, Dong Jae Bae, Young Hee Lee, Hyun Jin Shin, Seon-Mi Yoon, Jae Young Choi, Ok Hwan Cha, Mun Seok Jeong, David Perello, and Minhee Yun, "Photocurrent of CdSe nanocrystals on singlewalled carbon nanotube-field effect transistor", Appl. Phys. Lett., 92(24), 243103-1~243103-3, Jun. 16, 2008.
2. Woo Jong Yu, **Seung Yol Jeong**, Ki Kang Kim, Bo Ram Kang, Dong Jae Bae, Min Baek Lee, Seung Hun Hong, Sunanda Prabhu Gaunkar, Didier Pribat, David Perello, Minhee Yun, Jae-Young Choi, and Young Hee Lee, 'Bias-induced doping engineering with ionic adsorbates on singlewalled carbon nanotube thin film transistor', *submitted to J. Am. Chem. Soc.*, May 2008
3. **Seung Yol Jeong**, Sang Hyun Jeon, Gang Hee Han, Kay Hyeok An, Dong Jae Bae, Seong Chu Lim, Ha Ryong Hwang, Chang Soo Han, and Young Hee Lee, 'Efficient Synthesis of Individual Single-Walled Carbon Nanotube by Water-Based Catalyst with Poly(vinylpyrrolidone)', Journal of Nanoscience and nanotechnology, 8(1), 329-334 , 2008.
4. **S. Y. Jeong**, David Perello, S. J. Kim, J. H. Jang, B. R. Kang, W. J. Yu, D. J. Bae, Minhee Yun, and Y. H. Lee, 'Chirality-Specific Transport Phenomena of Isolated Singlewalled Carbon Nanotube', Physica status solidi B, 244(11), 4204-4211, Nov. 2007.
5. **Seung Yol Jeong**, Ki Kang Kim, Kay Hyeok An, Ha Ryong Hwang, Chang Soo Han, Min Hee Yun, and Young Hee Lee, 'Fabrication of Gas Sensor using Singlewalled Carbon Nanotubes Dispersed in Dichloroethane', NANO, 1(3), 235-241, Jan. 2007.
6. Seong Chu Lim, Keun Soo Kim, Im Bok Lee, **Seung Yol Jeong**, Shinje Cho, Jae-Eun Yoo, and Young Hee Lee, 'Nanomanipulator-assisted fabrication and characterization of carbon nanotubes inside scanning electron microscope', Micron, 36(5), 471-476, July 2005.
7. Yu Tong, Seong Chu Lim, Kyung Ah Park, Hee Jin Jeong, **Seung Yol Jeong**, Chang Liu, Hui-Ming Cheng, Yoon Choi, Young Hee Lee, 'Controlling Field-Emission Patterns of Isolated Single-Walled Carbon Nanotube Rope', Appl. Phys. Lett., 87, 043114-1~043114-3, July 25 2005.
8. D. Y. Kim, C. M. Yang, Y. S. Park, K. K. Kim, **S. Y. Jeong**, J. H. Han, Y. H. Lee, 'Characterization of thin multiwalled carbon nanotubes synthesized by thermal chemical vapor deposition', , Chem. Phys. Lett., 413, 135, July 20 2005.

9. Eun Ju Ra, Kay Hyeok An, Ki Kang Kim, **Seung Yol Jeong**, Young Hee Lee, 'Anisotropic electrical conductivity of MWCNT/PAN nanofiber paper', Chem. Phys. Lett., 413, 188 July 18 2005.
10. K. H. An, C. M. Yang, J. S. Park, **S. Y. Jeong**, and Y. H. Lee, 'Intercalant-induced superbundle formation of singlewalled carbon nanotubes', J. Phys. Chem. B. 109(20), 10004-10008, Apr., 2005.
11. K. H. An, J. S. Park, C. M. Yang, **S. Y. Jeong**, S. C. Lim, C. Kang, J. H. Son, M. S. Jeong and Y. H. Lee, 'A Diameter-Selective Attack of Metallic Carbon Nanotubes by Nitronium Ions', J. Am. Chem. Soc. , 127(14), 5196, Apr, 2005.
12. Hee Jin Jeong, Ki Kang Kim, **Seung Yol Jeong**, Min Ho Park, Cheol Woong Yang and Young Hee Lee, 'High-yield catalytic synthesis of thin multi-walled carbon nanotubes', J. Phys. Chem. B, 108(46), 17695-17698, Nov, 2004.
13. K. H. An, **S. Y. Jeong**, H. R. Hwang and Y. H. Lee, 'Enhanced sensitivity of a gas sensor incorporating single-walled carbon nanotubes-polyrrole nanocomposites', Adv. Mat., 16(12), 1005-1009, June 17, 2004.
14. Y. M. Shin, **S. Y. Jeong**, H. J. Jeong, S. J. Eum, C. W. Yang, C. Y. Park, and Y. H. Lee, 'Influence of morphology of catalyst thin-film on vertically aligned carbon nanotube growth', J. Cryst. Growth, 271(1-2), 81-89, Oct. 15 2004.
15. **S. Y. Jeong**, J. Y. Kim, H. D. Yang, B. N. Yoon, S. H. Choi, S. J. Eum, C. W. Yang, and Y. H. Lee, 'Synthesis of silicon nanotubes on porous alumina using molecular beam epitaxy', Adv. Mater. 15(14), 1172-1176, July 17, 2003.
16. H. J. Jeong, **S. Y. Jeong**, Y. M. Shin, J. H. Han, S. C. Lim, S. J. Eum, C. W. Yang, N. G. Kim, C. Y. Park, and Y. H. Lee, 'Dual-catalyst growth of vertically aligned carbon nanotubes at low temperature in thermal chemical vapor deposition', Chem. Phys. Lett. 361, 189-195, 30 July, 2002.
17. H. J. Jeong, Y. M. Shin, **S. Y. Jeong**, Y. C. Choi, Y. S. Park, S. C. Lim, G. S. Park, N. S. Lee, J. M. Kim, and Y. H. Lee, 'Anomalies in the Growth Temperature and Time Dependence of Carbon

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Nanotube Growth', Chemical Vapor Deposition. 8(1), 11-15, Jan. 2002.

Patent

Y. H. Lee, **S. Y. Jeong**, C. S. Han, D. K. Choi 'A Method For a Selective Growth of Single-walled Carbon Nanotubes Using Water-soluble Catalyst and an Electronic Device or a Photoelectronic Device Comprising Single-walled Carbon Nanotubes Formed Thereby ' (Registration number: 10-0698393, Registration date: Mar. 15 2007)

S. Y. Jeong, K. H An, H. R. Hwang, and Y. H. Lee 'Fabrication of a gas sensor using the self-heated type carbon nanotube' (Registration number: 0525982, Registration date: Oct. 27 2005)

Awards

Best Paper Award, BK21, Korea Research Foundation, December 2004, Seoul, Korea

Best Presentation Award, BK workshop, Feb. 15-16, 2004, Pyungchang, Kwangwondo, Korea

Best Tutor Award of Science Education for Woman High School Students (International Symposium *BIEN 2003*, Women into Science and Engineering (WISE) Center, November, 2003, Daejeon, Korea)

Scholarship (BK 21, Korea Research Foundation, 2001~2005)

University Scholarship (Chonbuk National University, 1999~2000)

Presentations

1. Fethullah Gunes, **Seung Yol Jeong**, Ki Kang Kim, Young Hee Lee, 'Density control of single-walled carbon nanotube network synthesized from discrete nanoparticles', The fall meeting of Korean Carbon Society, Nov. 22-23, 2007, Yonsei University, Korea P. 135.
2. Woo Jong Yu, **Seung Yol Jeong**, David Perello, Sung Jin Kim, Jin Ho Jang, Bo Ram Kang, Dong Jae Bae, Minhee Yun, Young Hee Lee, 'Transport phenomena of individual singlewalled carbon nanotube', The fall meeting of Korean Carbon Society, Nov. 22-23, 2007, Yonsei University, Korea P. 86.
3. Bo Ram Kang, David Perello, Moon J. Kim, Dong Kyu Cha Gang Hee Han, Dong Jae Bae, **Seung Yol Jeong**, Young Hee Lee, Minhee Yun, 'Schottky barrier imaging with multiple pairs of metal electrodes in carbon nanotube', The fall meeting of Korean Carbon Society, Nov. 22-23, 2007, Yonsei University, Korea P. 15.
4. Woo Jong Yu, **Seung Yol Jeong**, David Perello, Sung Jin Kim, Jin Ho Jang, Bo Ram Kang, Dong Jae Bae, Minhee Yun, and Young Hee Lee, 'Specific Properties Between Diferent Chiralities of

- Singlewalled Carbon Nanotube', 2007 NANO Forum on CNT-TCF&TFT, Oct. 31 - Nov. 3, 2007, Platform of Jeollabuk-do Provincial Government, Korea P.
5. Bo Ram Kang, David Perello, Moon J. Kim, DongKyu Cha, Gang Hee Han, Dong Jae Bae, **Seung Yol Jeong**, Young Hee Lee, and Minhee Yun, 'Imaging of the Schottky Barriers in Carbon Nanotube with Different Metal Electrodes', 2007 NANO Forum on CNT-TCF&TFT, Oct. 31 - Nov. 3, 2007, Platform of Jeollabuk-do Provincial Government, Korea P. 94.
 6. **Seung Yol Jeong**, Seung Jin Chai, Sang Hyun Jeon, Gang Hee Han, Kay Hyeok An, Dong Jae Bae, Seuong Chu Lim and Young Hee Lee, 'Fabrication of a SWCNT ? FET using conventional photolithography with Water - Based catalyst', 2007 NANO Forum on CNT-TCF&TFT, Oct. 31 - Nov. 3, 2007, Platform of Jeollabuk-do Provincial Government, Korea P. 81.
 7. Fethullah Gunes, **Seung Yol Jeong**, Ki Kang Kim, and Young Hee Lee, 'SYNTHESIS OF SINGLE-WALLED CARBON NANOTUBE RANDOM NETWORK FROM DISCRETE NANOPARTICLES', 2007 NANO Forum on CNT-TCF&TFT, Oct. 31 - Nov. 3, 2007, Platform of Jeollabuk-do Provincial Government, Korea P. 72.
 8. W. J. Yu, **S. Y. Jeong**, Y. H. Lee, 'Selective Chemical Doping on a Singlewalled Carbon Nanotubes-Field Effect Transistor by Controlling of Gate Modulation', The 4th Korean-Japanese Symposium on Carbon Nantoube, Oct. 28-31, 2007, Kansai Seminar House, Kyoto, Japan, P. 57.
 9. Gunes Fethullah, **S. Y. Jeong**, K. K. Kim, Y. H. Lee, 'Density Control of Single-walled Carbon Nanotube Network Synthesized by Ferritin Catalyst', 2007 Fall meeting of Korean Physical Society, Oct. 18-19, 2007, Jeju Convention Center, Korea, P. 125.
 10. **S. Y. Jeong**, S. H. Jeon, G. H. Han, K. H. An, D. J. Bae, S. C. Lim, H. R. Hwang, C. S. Han, M. H. Yun, Y. H. Lee, 'Efficient Synthesis of Individual Single-Walled Carbon Nanotube by Water-Based Catalyst with Polyvinylpyrrolidone', 2007 Fall meeting of Korean Physical Society, Oct. 18-19, 2007, Jeju Convention Center, Korea, P. 106.
 11. M. H. Yun, Y. H. Lee, Perello David. M. J. Kim, D. K. Cha, G. H. Han, D. J. Bae, **S. Y. Jeong**, B. R. Kang, 'Schottky Barrier Engineering in Carbon Nanotube with Various Metal Electrodes', 2007 Fall meeting of Korean Physical Society, Oct. 18-19, 2007, Jeju Convention Center, Korea, P. 107.
 12. Y. H. Lee, M. H. Yun, **S. Y. Jeong**, Perello David, S. J. Kim, J. H. Jang, B. R. Kang, W. J. Yu, D. J.

- Bae, 'Chirality-Specific Transport Phenomena of Isolated Singlewalled Carbon Nanotube', 2007 Fall meeting of Korean Physical Society, Oct. 18-19, 2007, Jeju Convention Center, Korea, P. 105.
13. H. Lee, E. S. Kim, S. J. Kim, **S. Y. Jeong**, Y. H. Lee, 'Catalytic Synthesis of Thin Multiwalled Carbon Nanotubes for Mass Production', 2007 Spring meeting of Korean Physical Society, Apr. 19-20, 2007, Phoenixpark, Korea, P.154.
14. **S. Y. Jeong**, S. H. Jeon, K. H. An, S. C. Lim, D. J. Bae, H. R. Hwang, C. S. Han, Y. H. Lee, 'Efficient Synthesis of Individual Single-Walled Carbon Nanotube by Water-Based Catalyst with Polyvinylpyrrolidone', The 3rd Japan-Korea Symposium on Carbon Nanotube, Gyeongju TEMF Hotel, Korea, Oct. 14-17, 2006 P.70.
15. **Seung Yol Jeong**, Kay Hyeok An, Ha Ryong Hwang, Chang Soo Han, and Young Hee Lee, 'Fabrication of Gas Sensor using Carbon Nanotubes and their Ppy(Polypyrrole) Composites' 1st France-Korea Workshop on Functional Carbon Nanomaterials and Applications, Dec. 4-7, 2005, Research Complex, Sungkyunkwan univ., Korea, Ta-11.
16. **S. Y. Jeong**, S. H. Jeon, K. H. An, S. C. Lim, D. J. Bae, H. R. Hwang, C. S. Han, Y. H. Lee, 'Facile Approach for a Selective Synthesis of Individual Single-Walled Carbon Nanotube Controlled by Water-Soluble Catalyst', 2nd Korea-Japan Symposium on Carbon Nanotube, Nov. 27-30, 2005, Hotel TAIKANSO, Japan, 1P-04.
17. **Seung Yol Jeong**, Ki Kang Kim, Kay Hyeok An, Sang Hyun Jeon, Ha Ryong Hwang, and Young Hee Lee, 'Enhanced Sensitivity of Gas Sensor depending on Initial Resistance with dispersed Single-Walled Carbon Nanotubes', Carbon 2005(International Conference on Carbon), July 3-7, 2005, Gyeongju, Korea, P03-23.
18. Kay Hyeok An, Cheol-Min Yang, Jin Sung Park, **Seung Yol Jeong**, Kyung Ah Park, and Young Hee Lee, 'Intercalant-Induced Superbundle Formation of Single-Wall Carbon Nanotubes.' Carbon 2005(International Conference on Carbon), July 3-7, 2005, Gyeongju, Korea, P03-17.
19. **S. Y. Jeong**, K. H. An, H. R. Hwang, and Y. H. Lee, 'Application of Singlewalled Carbon Nanotubes(SWCNTs)-Polypyrrole(Ppy) Nanocomposites to Supercapacitors and Gas sensors' (Invited talk), 229TH American Chemical Society(ACS) National Meeting, Mar. 13-17, 2005, San Diego, USA.

20. **S. Y. Jeong**, K. H. An, H. R. Hwang, and Y. H. Lee, 'Enhanced Sensitivity of a Gas Sensor Incorporating Single-Walled Carbon Nanotube-Polypyrrole Nanocomposites', ISCN 2004(International Symposium on NanoCarbons), Nov. 15-18, 2004, Nagano, Japan, P. 161.
21. K. H. An, C. M. Yang, J. S. Park, **S. Y. Jeong**, K. A. Park, and Y. H. Lee, 'A Simple Formation of Single-Wall Carbon Nanotubes Superbundles', ISCN 2004(International Symposium on NanoCarbons), Nov. 15-18, 2004, Nagano, Japan, P. 164.
22. J. Y. Lee, I. S. Baik, K. H. An, **S. Y. Jeong**, G. Lee, H. K. Choi, Y. P. Lee, S. H. Lee, and Y. H. Lee, 'Dynamical Motion of Carbon Nanotubes in Liquid Crystals', ISCN 2004(International Symposium on NanoCarbons), Nov. 15-18, 2004, Nagano, Japan, P. 166.
23. **S. Y. Jeong**, K. S. Kim, D. J. Bae, and Y. H. Lee, 'Selective Lateral Growth of Individual Single Wall Carbon Nanotube using Thermal Chemical Vapor Deposition', 1st Japan-Korea Symposium on Carbon Nanotubes, Oct. 13-16, 2004, Jeju Seogwipo KAL Hotel , Korea.
24. J. Y. Lee, I.-S. Baik, K. H. An, **S. Y. Jeong**, G. Lee, H. K. Choi, Y. P. Lee, S. H. Lee, and Y. H. Lee, 'Orientational Ordering of Carbon Nanotubes in Liquid Crystals', 1st Japan-Korea Symposium on Carbon Nanotubes, Oct. 13-16, 2004, Jeju Seogwipo KAL Hotel , Korea.
25. H. J. Jeong, K. K. Kim, **S. Y. Jeong**, M. H. Park, C. W. Yang, and Y. H. Lee, 'High-yield Thin Multi-walled Carbon Nanotube Synthesis on FeMoMgO', 1st Japan-Korea Symposium on Carbon Nanotubes, Oct. 13-16, 2004, Jeju Seogwipo KAL Hotel , Korea.
26. **S. Y. Jeong**, K. H. An, H. R. Hwang, Y. H. Lee, 'Enhanced Sensitivity of a Gas Sensor Incorporating Single-Walled Nanotube-Polypyrrole Nanocomposites', NANO KOREA 2004 (2004 International Nanotech Symposium & Exhibition in Korea), Aug. 24-27 2004, COEX, Korea, P. 113.
27. **S. Y. Jeong**, K. S. Kim, D. J. Bae, Y. H. Lee, 'Selective lateral growth of single-walled carbon nanotube by thermal chemical vapor deposition', Spring meeting of Korean Physical Society, Apr. 23-24, 2004, Sungkyunkwan University, Korea, 22(1), P. 125.
28. **S. Y. Jeong**, K. H. An, Y. H. Lee, 'Enhanced sensitivity of a gas sensor using singlewalled carbon nanotubes-polypyrrole nanocomposites', APS March 2004 Meeting, Montreal, Mar. 22-26, 2004, Canada, P. 537.

29. **S. Y. Jeong** 'Synthesis of silicon nanotube...' session A (oral), BK workshop Feb. 15-16, 2004, Pyung Chang, Kwang Won Do, Korea.
30. **S. Y. Jeong**, J. Y. Kim, H. D. Yang, B. N. Yoon, S. -H. Choi, H. K. Kang, C. W. Yang, and Y. H. Lee, 'Synthesis of Silicon Nanotubes on Porous Alumina Using Molecular Beam Epitaxy', International Conference on the Science and Application of Nanotube(NT03), July 7-11. 2003, Seoul National University, Korea, P. 21.
31. **S. Y. Jeong**, K. H. An, Y. H. Lee, H. R. Hwang, 'Highly sensitive gas sensor using a nanocomposite of SWNTs and polypyrrole', International Conference on the Science and Application of Nanotube(NT03), July 7-11. 2003, Seoul National University, Korea, P. 148.
32. **S. Y. Jeong**, K. H. An, Y. H. Lee, H. R. Hwang, 'Highly sensitive gas sensor using a nanocomposite of SWNTs and polypyrrole', Spring meeting of Korean Physical Society, Apr. 25-26, 2003, Yonsei University, Korea, 21(1), P. 114.
33. H. J. Jeong, **S. Y. Jeong**, K. H. An, Y. H. Lee, and J. S. Jang, 'Growth of single-wall carbon nanotubes on Ni/MgO and Ni/ZrO₂ catalysts by thermal chemical vapor deposition', The fall meeting of 50th Korean Physical Society, p. 397, Oct. 24-26, 2002, Hanyang University, Seoul, Korea.
34. **S. Y. Jeong**, J. Y. Kim, H. D. Yang, S. H. Choi, B. N. Yoon, S. J. Eum, C. W. Yang and Y. H. Lee 'Synthesis of silicon nanowires on anodic aluminum oxide templates by molecular beam epitaxy: evidence of quantum confinement effect', The fall meeting of 50th Korean Physical Society, p. 397, Oct. 24-26, 2002, Hanyang University, Seoul, Korea.
35. **S. Y. Jeong**, K. H. An, H. R. Hwang, D. J. Bae, J. Y. Lee, and Y. H. Lee, 'Gas sensor using a nanocomposite of SWNTs and Ppy', Int. conf. On the science and application of nanotubes(NT02), July 6-11, 2002, Boston college, MA USA.
36. **S. Y. Jeong**, K. S. Kim, D. J. Bae, Y. H. Lee, E. J. Bae, W. B. Choi, C. S. Lee, H. G. Lee, and J. M. Kim, 'Selective lateral growth of carbon nanotubes under applied voltage', Spring meeting of Korean Physical Society, Apr. 19-20, 2002, Busan Exhibition and Convention Center(BEXCO), Korea, Vol. 20(1), P. 81.
37. H. J. Jeong, **S. Y. Jeong**, S. C. Lim, Y. H. lee, J. I. Kim, and J. W. Cheon, 'Singlewalled carbon

- nanotube growth with Co nanoparticles using rapid thermal chemical vapor deposition', Spring meeting of Korean Physical Society, Apr. 19-20, 2002, Busan Exhibition and Convention Center(BEXCO), Korea, Vol. 20(1), P. 80.
38. K. S. Kim, D. J. Bae, **S. Y. Jeong**, H. J. Jeong, and Y. H. Lee, 'Growth of carbon nanotubes using magnetic field enhanced thermal CVD', Spring meeting of Korean Physical Society, Apr. 19-20, 2002, Busan Exhibition and Convention Center (BEXCO), Korea, Vol. 20(1), P. 78.
39. S. C. Lim, C. S. Jo, Y. S. Choi, **S. Y. Jeong**, H. J. Jeong, Y. M. Shin, J. H. Han, Y. S. Park, and Y. H. Lee, 'Variation of field emission properties of carbon nanotubes upon temperature', Fall meeting of Korean Physical Society, Oct. 19-20, 2001, Chonnam National University, Korea, Vol. 19(2), P. 367.
40. **S. Y. Jeong**, K. S. Kim, C. W. Kim, Y. S. Park, Y. M. Shin, K. H. An, and Y. H. Lee, 'Control of Diameter and Length of Carbon Nanotubes using Nano-templates', Fall meeting of Korean Physical Society, Oct. 19-20, 2001, Chonnam National University, Korea, Vol. 19(2), P. 337.
41. H. J. Jeong, Y. M. Shin, K. S. Kim, **S. Y. Jeong**, Y. S. Park, Y. H. Lee, and Y. C. Choi, 'Evidence of cap growth mechanism on carbon nanotubes growth by thermal chemical vapor deposition', Spring meeting of Korean Physical Society, Apr. 27-28, 2001, Kyunghee University, Korea, Vol. 19(1), P. 99.
42. K. H. An, J. M. Moon, W. S. Kim, Y. M. Shin, D. J. Bae, S. J. Lim, K. K. Jeon, H. J. Jeong, **S. Y. Jeong**, Y. S. Park, K. S. Kim, and Y. H. Lee, 'Composites of singlewalled carbon nanotube and polypyrrole for applications to supercapacitors', Spring meeting of Korean Physical Society, Apr. 27-28, 2001, Kyunghee University, Korea, Vol. 19(1), P. 98.

Professional Affiliations

NANO Journal (2006. July), World Scientific, Referee