The 20th International Conference on Molecular Electronics & Devices

Honoring 20 Years of Research Achievements with 20th IC ME&D Conference, May 22-23, 2009

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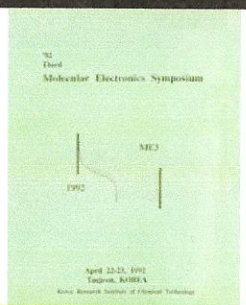
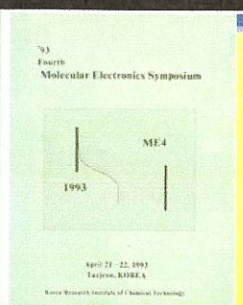
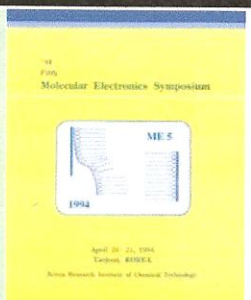
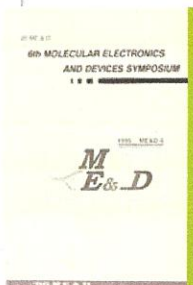
ABSTRACT BOOK



CELEBRATING 20 YEARS OF MOLECULAR ELECTRONICS RESEARCH

ME&D 1990-2009

- **Date : 2009. 5. 22 (Fri) ~ 2009. 5.23 (Sat)**
- **Place : St. Ignatius Hall, Sogang University**
- **Website : www.me-d.org**

Organized by Center for Bioelectronic Devices of Sogang University
Hosted by the Korean Biochip Society

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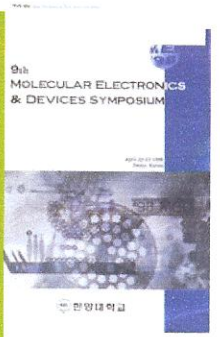

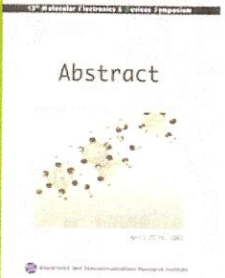

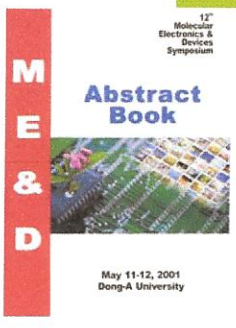

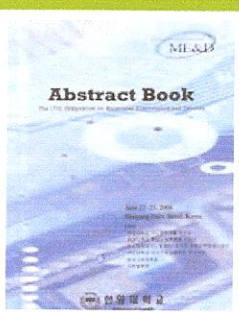

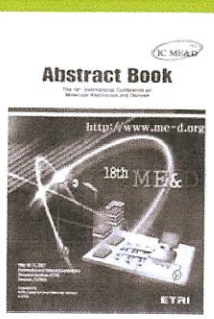

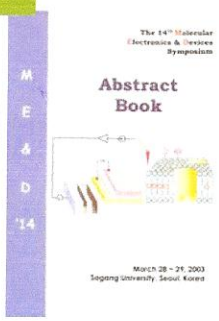

Fabrication and Characteristic of pentacene nanowires

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Pentacene nanowires were synthesized by using an organic physical vapor transport method [1], through Al_2O_3 nanoporous templates. To confirm the length and diameter of pentacene nanowires, SEM (Scanning Electronic Microscope) was employed. Pentacene nanowires have a diameter of 200±20 nm and length of about 10 μm. To discern the optical characteristics of pentacene nanowires, UV/Vis absorption and PL spectra were measured and analyzed. The crystalline structure of pentacene nanowires was investigated X-Ray diffraction patterns. We compare the characteristics of pentacene nanowires with those of pentacene powder.

References

[1] **J. W. Lee,** Advanced Functional Materials, Vol. 19, p. 704 (2009).

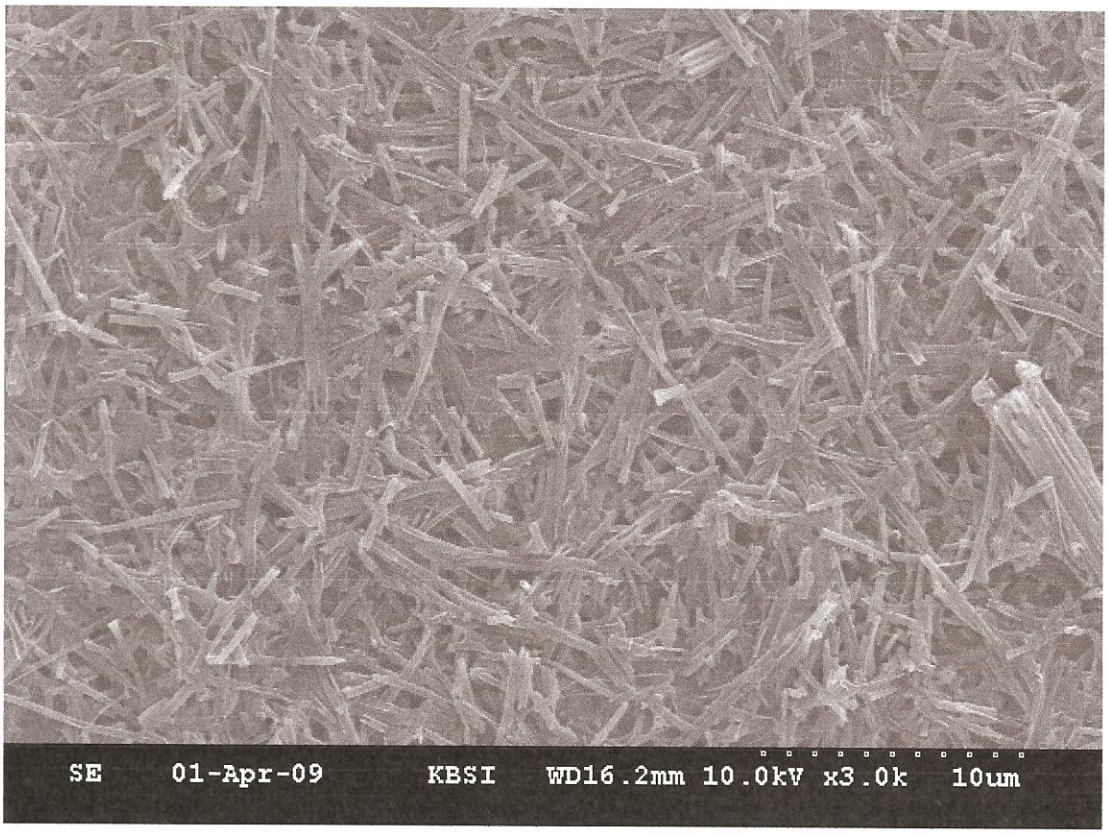

Fig.1 SEM (Scanning Electronic Microscope) image of Pentacene nanowires.