

Industrial Technology Research Institute

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The Industrial Technology Research Institute - ITRI - is a non-profit R&D organization engaging in applied research and technical service. It was founded in 1973 by the Ministry of Economic Affairs (MOEA) to attend to the technological needs of Taiwan's industrial development. ITRI has played a vital role in the transformation of the economy from an agriculture-based model to an industrial one. By year 2001 it has grown to a 6000 people operation, and serves as the technical center for industry and an unofficial arm of the government's industrial policies in Taiwan. Backed by its broad research scope and close industrial ties, ITRI is becoming an increasingly active member in the global industrial R&D community.

Recent Publications by Industrial Technology Research Institute:



- [Molecular dynamics on interface and nanoscratch mechanisms of alkanethiol self-assembled monolayers.](#)

The interface dynamics and nanoscratched mechanisms of alkanethiol... 17th October, 2009
Microsystems Technology Center, Industrial Technology Research Institute,- J Phys Chem B. 2009 Nov 12;113(45):14994-5001. ([DOI Direct Link](#))

- [Investigation of anti-leukemia molecular mechanism of ITR-284, a carboxamide analog, in leukemia cells and its effects in WEHI-3 leukemia mice.](#)

ITR-284, a potent anti-leukemia agent of carboxamide derivative, has been... 22nd September, 2009
Medicinal Chemistry Laboratory, Biomedical Engineering Research- Biochem Pharmacol. 2009 Sep 16. ([DOI Direct Link](#))

- [Using four wavelength-multiplexed self-seeding Fabry-Perot lasers for 10 Gbps upstream traffic in TDM-PON.](#)

In this paper, we propose and experimentally investigate a simple... 28th July, 2009
Information and Communications Research Laboratories, Industrial- Opt Express. 2008 Nov

10;16(23):18857-62.

- [A simple method to determine bioethanol content in gasoline using two-step extraction and liquid scintillation counting.](#)
A simple method for determining bioethanol content in gasoline containing... 7th July, 2009
Life Science Group, Tokyo Metropolitan Industrial Technology Research- Bioresour Technol. 2009 Dec;100(23):6125-8. Epub 2009 Jul 4. ([DOI Direct Link](#))
- [Electron transport behavior of individual zinc oxide coated single-walled carbon nanotubes.](#)
Uniform zinc oxide coated single-walled nanotubes (SWNTs) were fabricated... 2nd July, 2009
Material and Chemical Research Laboratories, Industrial Technology- Nanotechnology. 2009 Mar 11;20(10):105703. Epub 2009 Feb 17. ([DOI Direct Link](#))
- [Development of polyion complex micelles for encapsulating and delivering amphotericin B.](#)
A block copolymer poly(2-ethyl-2-oxazoline)-block-poly(aspartic acid)... 25th June, 2009
Polymer Technology Division, Material and Chemical Research Laboratories,- Biomaterials. 2009 Jul;30(19):3352-8. Epub 2009 Mar 19. ([DOI Direct Link](#))
- [Sennoside B inhibits PDGF receptor signaling and cell proliferation induced by PDGF-BB in human osteosarcoma cells.](#)
AIMS: To address the possibility that sennoside B inhibition of cell... 24th June, 2009
Biomedical Engineering Research Laboratories, Industrial Technology- Life Sci. 2009 Jun 19;84(25-26):915-22. Epub 2009 Apr 22. ([DOI Direct Link](#))
- [Synthesis of poly\(3-hexylthiophene\) grafted TiO2 nanotube composite.](#)
A composite of poly(3-hexylthiophene) (P3HT) grafted on TiO(2) nanotubes... 24th June, 2009
Photovoltaics Technology Center, Industrial Technology Research Institute,- J Colloid Interface Sci. 2009 May 1;333(1):128-34. Epub 2009 Feb 6. ([DOI Direct Link](#))
- [A novel network module for medical devices.](#)
In order to allow medical devices to upload the vital signs to a server on... 6th May, 2009
Industrial Technology- Conf Proc IEEE Eng Med Biol Soc. 2008;2008:1553-6. ([DOI Direct Link](#))
- [Protein profilings in mouse liver regeneration after partial hepatectomy using iTRAQ technology.](#)
Liver is unique in its capability to regenerate after an injury. Liver... 7th April, 2009
Biomedical Engineering Research Laboratories, Industrial Technology- J Proteome Res. 2009 Feb;8(2):1004-13. ([DOI Direct Link](#))

Press Releases on Industrial Technology Research Institute:

SCAN Employees and Community Volunteers to Help Deliver One Thousand Thanksgiving Meals to Homebound Seniors	25th November, 2009	SCAN Health Plan	LONG BEACH, Calif., Nov. 25 /PRNewswire/ -- Thanksgiving meals will be delivered to approximately 1,000 homebound seniors in the greater Long Beach area thanks to Faith In Action/Volunteer Action for
North Carolina-based Cnanoz Unveils NanoPure(TM) to Government Leaders in Hyderabad, India	25th November, 2009	Cnanoz Inc.	DURHAM, N.C., Nov. 25 /PRNewswire/ -- Research Triangle Park-based Cnanoz Inc. unveiled the first energy-efficient, single-treatment water purification system NanoPure(TM) developed from carbon

Pharmasset Reports Fiscal Year End 2009 Financial Results	25th November, 2009	Pharmasset, Inc.	PRINCETON, N.J., Nov. 25 /PRNewswire-FirstCall/ -- Pharmasset, Inc. (Nasdaq: VRUS), a clinical stage pharmaceutical company committed to discovering, developing and commercializing novel drugs to
Sentinelle Medical Launches Aegis Suite of Oncology 4D Visualization Software with PureWeb(TM) Technology	25th November, 2009	Sentinelle Medical Inc.	TORONTO, Nov. 25 /PRNewswire/ - Sentinelle Medical Inc., a leading manufacturer of breast MRI coils and advanced visualization software launches a suite of new leading edge clinical applications on
Sentinelle Medical Inc. Introduces Aegis(TM) Web Powered By Calgary Scientific's PureWeb Technology	25th November, 2009	Sentinelle Medical Inc.	TORONTO and CALGARY, Nov. 25 /PRNewswire/ - Sentinelle Medical Inc., a leading manufacturer of Magnetic Resonance Imaging (MRI) coils and software and Calgary Scientific Inc., a leading provider of

BioNews Results for Industrial Technology Research Institute



- [\(Taiwan\) Innovation and excellence honored at awards event: Formosa Laboratories wins top prize. GaleMed comes](#)
BiotechEast: Nov 22 2009 7:49AM Matching: industrial technology research institute
- [Taiwanese Team Developing Single-Molecule Real-Time Optical Sequencing Tech Registers for X-Prize](#)
GenomeWeb: Nov 18 2009 12:41AM Matching: industrial technology research institute
- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
Tajikistan News.net: Nov 18 2009 3:54AM Matching: industrial technology research institute
- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
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- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
Genetic Engineering News: Nov 17 2009 8:34PM Matching: industrial technology research institute
- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
Turkmenistan News.net: Nov 17 2009 4:02PM Matching: industrial technology research institute
- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
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- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
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- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize](#)
Market Wire: Nov 17 2009 1:21PM Matching: industrial technology research institute
- [The X PRIZE Foundation Announces First Asia-Based Contender for Genome Sequencing Prize Taiwanese Team, cracker, to](#)
PR inside: Nov 17 2009 1:21PM Matching: industrial technology research institute
- [STOBA, The First Materials to Improve the Safety of Li-Ion Batteries](#)
Research & Development: Nov 11 2009 2:50AM Matching: industrial technology research institute
- [Pacific Rim Summit Will Highlight Production of Renewable Chemicals through Biotechnology](#)
Industrial News Room: Nov 8 2009 1:40PM Matching: industrial technology research institute
- [Pacific Rim Summit Will Highlight Production of Renewable Chemicals through Biotechnology](#)
ThomasNet: Nov 7 2009 5:17AM Matching: industrial technology research institute
- [NCKU's Prof. J. J. Miao Elected as an IAA Corresponding Member](#)
Genetic Engineering News: Nov 6 2009 3:17AM Matching: industrial technology research institute
- [Medical electronics market to reach \\$90bn in 2010](#)
Bio Spectrum Asia: Nov 4 2009 9:04AM Matching: industrial technology research institute

Industrial Technology Research Institute Patents:



- 7589354- [Light emitting diode package and process of making the same](#)
- 7596567- [File repair method for MBMS and UMTS network](#)
- 7596695- [Application-based data encryption system and method thereof](#)
- 7597186- [Substrate transport device](#)
- 7597751- [Carrier gas recycling system](#)
- 7598113- [Phase change memory device and fabricating method therefor](#)
- 7598359- [Bis \(indolestyryl\) compound and high density recording media utilizing the same](#)
- 7598360- [Bisstyryl compound and high density recording media utilizing the same](#)
- 7598533- [High heat dissipating LED having a porous material layer](#)
- 7598595- [Fabrication of nanoporous antireflection film](#)
- 7598609- [Structure of polymer-matrix conductive film and method for fabricating the same](#)
- 7595944- [Optical actuator](#)
- 7594841- [Carbon nanotube field emitter array and method for fabricating the same](#)
- 7589373- [Semiconductor device](#)
- 7589650- [Analog-to-digital converter with calibration](#)
- 7589675- [Broadband antenna](#)
- 7589797- [High efficiency liquid crystal display projection system](#)
- 7590165- [Sub-system based window placement and size decision mechanism and method thereof](#)
- 7591066- [Clamping device for flexible substrate](#)
- 7591242- [Plasma reformer and internal combustion engine system having the same](#)
- 7591517- [Micro-droplet injection apparatus and injecting process using the same](#)
- 7591890- [Photocurable pigment type inkjet ink composition](#)
- 7593110- [Surface plasmon resonance detecting apparatus and method thereof](#)
- 7598650- [Motor mechanism of DC inverter-fed compressor](#)
- 7598653- [Surface acoustic wave bio-chip](#)
- 7605967- [Liquid crystal electro-optical modulator and method of optical modulation](#)

- 7606063- [Magnetic memory device](#)
- 7606710- [Method for text-to-pronunciation conversion](#)
- 7606947- [Removable electronic device and method thereof](#)
- 7608332- [Cathode material particle comprising of plurality of cores of coated grains](#)
- 7608990- [Anode plate structure for flat panel light source of field emission](#)
- 7608996- [Electroluminescence display and method for manufacturing the same](#)
- 7609180- [Method and apparatus for bus encoding and decoding](#)
- 7609356- [Modulized display component and manufacturing method thereof](#)
- 7609695- [Optimizing switching element for minimal latency](#)
- 7605783- [Driving circuit of light emitting element](#)
- 7605614- [Bulk input current switch logic circuit](#)
- 7598665- [Field emission device and operating method for field emission device](#)
- 7598771- [Level shifter for gate driver](#)
- 7599025- [Vertical pixel structures for emi-flective display and methods for making the same](#)
- 7599406- [Fiber ring laser](#)
- 7599525- [Image password lock system by tracing position information of the organism or article feature](#)
- 7600859- [Inkjet printhead and manufacturing method thereof](#)
- 7602114- [Field emission flat lamp with strip cathode structure and strip gate structure in the same plane](#)
- 7602831- [Semiconductor laser device having an insulation region](#)
- 7605474- [Structure of polymer-matrix conductive film and method for fabricating the same](#)
- 7605613- [Bulk input current switch logic circuit](#)
- 7610170- [Method for enhancing the measurement capability of multi-parameter inspection systems](#)

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