

## Bibliography

- 1) University of Cambridge. 2007. *Nanoscience centre safety manual*.
- 2) Khalil, T. 2000. *Management of technology: The key to competitiveness and wealth creation*. USA: MacGraw-Hill Companies
- 3) Fryxell, GE, Cao, G, (ed). 2007. *Environmental applications of nanomaterials: Synthesis, sorbents and sensors*. London: Imperial College Press
- 4) Yang, P (ed). 2003. *The chemistry of nanostructured materials*. Singapore: world Scientific Publishing Co.
- 5) Sengar, S. 2008. *Nanotechnology, law and legal services*. New Delhi: Anmol
- 6) Gogotsi, Y. (ed). 2006. *Nanomaterials handbook*. Boca Raton: CRC
- 7) Wison, M. et al (ed). 2002. *Nanotechnology: Basic science and emerging technologies*. Boca Raton: Chapman CRC
- 8) Schmid G. et al (ed). 2006. *Nanotechnology: Assessment and perspectives*. Springer
- 9) Fendler, JH.(ed). 1998. *Nanoparticles and nanostructured films: Preparation characterization and applications*. Wiley-VCH.
- 10) Hornyak, GL. 2009. *Introduction to nanoscience and nanotechnology*. CRC Press

## References

- A-Z Nanotechnology web site, 2008. Australian Nano Business Forum and Taiwanese Partner Announce Major International Collaboration.
- ALD NanoSolutions website. 2008. COMPANY ALD NanoSolutions Inc website.
- AOWA website. 2006. AOWA GOOD WATER SYSTEM (AW 2500).
- AZoNano web site. 2008. Nanomembranes, An Overview of Nanomembranes Including Definition, Applications and Fabrication Techniques.
- AZoNano web site. 2008. Nanomembranes, An Overview of Nanomembranes Including Definition, Applications and Fabrication Techniques.
- Aitken R, Hankin S, Ross B, Tran C, Stone V, Fernandes T, Donaldson K, Duffin R, Chaudhry Q, Wilkins T, Wilkins S, Levy L, Rocks S, Maynard A. 2009. EMERGNANO: A review of completed and near completed environment, health and safety research on nanomaterials and nanotechnology. Defra project CB0409.
- Akamatsu K, Takei S, Mizuhata M, Kajinami A, Deki S, Takeoka S, Fuji M, Hayashi S, Yamamoto k. 2000. Preparation and characterization of polymer thin films containing silver and silver sulfide nanoparticles. *Journal of Thin Solid Films*. vol 359. 55-60.
- AllergyAsthma Tech website. 2009. 3M 8233 N100 Hepa Mask. [online]. [http://www.allergyasthmatech.com/C/Allergy\\_Masks/330\\_321\\_1](http://www.allergyasthmatech.com/C/Allergy_Masks/330_321_1)
- Appelbaum R. 2007. Innovation or Imitation? China's Bid to Become a Global Leader in Nanotechnology. Woodrow Wilson Center.
- Appendini P, Hotchkiss J. 2002. Review of Antimicrobial Food Packaging. *Innovative Food Science and Emerging Technologies*. vol 3. 113-126.
- Araújo E, Méloa T, Santana L, Nevesa G, Ferreiraa H, Liraa H, Carvalhoa L, A'vila M, Pontesb M, Araújo I. 2003. Influence of Organo-Bentonite Clay on the Processing and Mechanical Properties of Nylon 6 and Polystyrene Composites. 2nd Brazilian MRS Meeting.
- Asia Nanotech Forum Summit. 2004. Taiwan National Nanotechnology Initiative and Infrastructure Summary. Asia Nanotech Forum Summit 2004. . .
- Asia Pacific Nanotech Weekly. 2004. Leading Nanotech Research Center in China. Asia Pacific Nanotech Weekly Journal. vol 2.
- AsiaNanoForum website. 2009. Government's programs, Main facilities and Key Centers.
- Augar P, Nicolas J. 2008. EU nanotechnology R&D in the field of health and environmental impact of nanoparticles. European Commission.

- BEST. 2008. Review of Federal Strategy for Nanotechnology-Related Environmental, Health, and Safety Research. Board on Environmental Studies and Toxicology.
- BSI. 2007c. Terminology for nanomaterials. British Standards Institution website.
- Baemner A. 2004. Nanosensors Identify Pathogens in Food. *Food Technology*. vol 58(8). 51-55.
- Bai C. 2008. Accent of nanoscience in China. *Essay Global Voice of Science*.
- Bai C. 2008. Nano Rising: Developing countries are investing heavily in nanoscience and nanotechnology, hoping for big payoffs. *Nature*. vol 456. 36-37.
- Bai C. 2008. Accent of nanoscience in china. *Essay Global Voice of Science* web site. [www.sciencemag.org](http://www.sciencemag.org).
- Bai M. 2008. The Use Of Thermal Plasma Technology In Nano-powder Production.
- Balbus J, Florini K, Denison R, Walsh S. 2007. Protecting Workers and the Environment: An Environmental NGO's Perspective on Nanotechnology. *Journal of Nanoparticle Research*. vol 9. 11-22.
- Bayer. 2007. Securely Wrapped. Bayer Research. vol 15. 34-37.
- Beta Technology Ltd. 2005. United Kingdom Country Report-Nano and Micro-TEC SMEs in IPs and NoE.
- Bhushan B(. 2004. Nnaostructures, Micro/Nanofabrication, and Micro/Nanodevices. Springer Handbook of Nanotechnology.
- Bilati G, Allemann E, Doelker E. 2005. Development of a nanoprecipitation method intended for the entrapment of hydrophilic drugs into nanoparticles. *European journal of Pharmaceutical Sciences*. vol 24. 67-75.
- Bogue R. 2008. Nanosensors: a review of recent progress. *Sensor Review*. vol 28(1). 12-17.
- Boumeester H, Dekkers S, Noordam M, Hagens W, Bulder A, de Heer C, ten Voorde S, Wijnhoven S, Marvin H, Sips A. 2009. Review of Health Safety Aspects of Nanotechnologies in Food Production . *Regulatory Toxicology and Pharmacology*. in press. .
- British Museum website. 2008. The Lycurgus Cup.
- Burke M. 2008. *Nanotechnology: The Business* . CRC. 1st edition. 248.
- Business Wire. 2006. Venture Capital Pours into Nanotech, but Exits Are Uncertain; Nanotech Venture Capital Totaled \$480 Million in 2005, Bringing Total Investment to \$2.0 Billion. *Bnet website*.
- Business Wire. 2008. QD Vision Raises \$9 Million in Venture Capital Financing. *Bnet website*.
- Butz T, Reinert R, Pinheiro T, Moretto P, Palloni C, Kiss A, Ladhuria S, Barros W, Chittala D, Lekki J, Lekka M, Hunyadi J, Biro T, Richerling M, Vaeck L, Royen P, Surleve-Bazeille J. 2007. NANODERM: Quality of Skin as a Barrier to ultra-fine Particles. [www.lib.mtu.ac.uk](http://www.lib.mtu.ac.uk)
- CBS News. 2009. United States - Economy. CBS Interactive Inc. . . .
- CNST. 2008. Center for Nano- Science and Technology of University System of Taiwan. . . .
- CORDIS website. 2009. Welcome to the Nanotechnology Homepage of the European Commission. . . .
- CRI. 2006. Catalog of technological profiles. 13th World Congress- Food is Life. . . .
- Caledonian Science Press website. 2009. Lycopene and Tomatoes. . . .
- Cancer Research UK website. 2008. Cancer Worldwide - The global picture. . . .
- Central Bank of Sri Lanka. 2008. Chapter 1: Economic, Price and Financial System Stability, Outlook and Policies.
- Centre for Nanoscience. 2009. NanoScience Practicals (1-3). University of Missouri. . . .
- Chaudhry Q, Scotter M, Blackburn J, Ross P, Boxall A, Castle L, Aitken R, Watkin R. 2008. Applications and implications of nanotechnologies for the food sector. *Food Additives and Contaminants*. vol 25(3). 241-258.
- Chemical Technology. 2005. Fabricating nanomembranes with novel properties. *Chemical Technology*.
- Chen X, Schluesener H. 2008. Nanosilver: A nanoparticle in medical application. *Toxicology Letters*. vol 176. 1-12.
- Chiu Y, Chiu C, Chien J, Ho G, Yang J, Chen B. 2007. Encapsulation of Lycopene Extract from Tomato Pulp Waste with Gelatin and Poly( $\epsilon$ -glutamic acid) as Carrier. *Journal of Agriculture and Food Chemistry*. vol 55. 5123-5130.
- Chuankrerkkul N, Sangsuk S. 2008. Current Status of Nanotechnology Consumer Products and Nano-Safety Issues. *Journal of Metals, Materials and Minerals*. vol 18(1). 75-79.
- Commission of the European Communities. 2008. Communication from the Commission to the Council, the European Parliament and the European Economic and Social Committee- Nanosciences and Nanotechnologies: An action plan for Europe 2005-2009. First Implementation Report 2005-2007. European Commission website.
- Concept Nursery.com. 2008. Sri Lanka Technology Incubator (Pvt) Ltd.
- Cook K. 2005. History of Nano Timeline. DiscoverNano - Northwestern University.

- Cordis. 2007. German nanotechnology spending outstrips that of other EU member states. Nanowerk website.
- Crawley T. 2007. Commercialisation of Nanotechnology – Key Challenges. Nanoforum Workshop.
- Cushing B, Kolesnichenko V, O'Connor C. 2004. Recent Advances in the Liquid-Phase Syntheses of Inorganic Nanoparticles. *Chemical Reviews*. vol 104. 3893-3946.
- DIY Trade. 2009. High-speed Mini centrifuge.
- DOIS. 2007. Turning Today's Nanoscience Discoveries into Tomorrow's High Tech Realities. Department of Investment Services.
- Daily news web site. 2009. Processed Food Industry records Steady Growth. Sri Lanka today web site.
- Damm C, Munstedt H. 2007. Long-term antimicrobial polyamide 6/silver-nanocomposites. *Journal of Material Science*. vol 42. 6067-6073.
- Daniell S. 2007. Omega-3 Encapsulation in Chitosan Gets Study Boost. FoodNavigator.com. . .
- Daniells S. 2008. Nanoemulsions Show Potential for Fighting Cancer.
- Daniells S. 2008. Green Tea Catechins Go Nano: Study. Nutraingredients web site.
- Davis C, Mathias L, Gilman J, Schiraldi D. 2002. Effects of Melt-Processing Conditions on the Quality of Poly(Ethylene Terephthalate) Monotmorillonite Clay Nanocomposites. *Polymer Physics*. vol 40. 2661-2666.
- De Silva S, Takeda J, Shiratake Y, Iwamoto I. 2005a. Organizational culture and Product Innovation: a Case Study of Food Processing Firms in Sri Lanka.
- Department for Environment FARA. 2007. Characterising the Potential Risks posed by Engineered Nanoparticles: A Second UK Government Research Report. Department for Environment, Food and Rural Affairs.
- Department for Environment FARA. 2007. Characterising the Potential Risks posed by Engineered Nanoparticles: A Second UK Government Research Report. Department for Environment, Food and Rural Affairs.
- Department of Census and Statistics. 2006. Census of Industry: Sri Lanka 2003/2004. Department of Census and Statistics.
- Department of Commerce. 2003. Annual Report on Technology Transfer: Approach and Plans, FY 2002 Activities and Achievements.
- Dissanayake, VHW Lanerolle, RD and Mendis, N. 2006. Research ethics and ethical review committees in Sri Lanka: a 25 year journey. *Ceylon Medical Journal*.
- ESSGA. 2006. FOOD AND AGRICULTURE INDICATORS. Country- Sri Lanka. Food and agricultural Organization.
- ETC Group. 2004. Down on the farm: The impact of Nano-scale technologies on food and agriculture. ETC Group.
- Edelstein, AS and Cammarata, RC (Ed). 1998. *Nanomaterials; Synthesis, Properties and Applications*. Institute of Physics Publishing.
- Environmental Defence Fund. 2007. Nanomaterial Risk Assessment Worksheet.
- Espoo. 2008. Trip Report of Nanotech Finland Delegation Visit to China 2008.
- Euro India Net web site. 2009. Euro India Mortgages - Objectives.
- European Commission. 2003. Setting the nanotechnology research agenda. European Commission.
- European Commission. 2007. Nanotechnology in the European Research Area. European Commission website.
- FDA website. 2009. 2nd Annual Conference on Nanotechnology Law, Regulation and Policy.
- Fendler J(. 2006. Nanoparticles and nanostructured films:preparation characterization and applications.
- Fernandez P, Andre V, Rieger J, Kuhnle A. 2004. Nano-emulsion Formation by Emulsion Phase Inversion. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 251. 53-58.
- Ferreira I, Rocha S, Coelho M. 2007. Encapsulation of Antioxidants by Spray-Drying. *Chemical Engineering Transactions*. vol 11(2). 713-717.
- Fessi H, Puisieux F, Devissaguet J, Ph Ammoury N, Benita S. 1989. Nanocapsule formation by interfacial polymer deposition following solvent displacement. *International Journal of Pharmaceuticals*. vol 55. R1-R4.
- Filho F, de Melo TJA, de Carvalho L, Silva S. 2003. Preparation and Mechanical Properties of Polypropylene – Clay Nanocomposites. 2nd Brazilian MRS Meeting.
- Flag Counter website. 2009. United States.
- Foresight Institute. 2008. A Short History of Nanotechnology.
- Forgiarini A, Esquena J, González C, Solans C. 2001. Formation of Nano-emulsions by Low-Energy Emulsification Methods at Constant Temperature. *Langmuir*. 17(7). 2076-2083.
- Foster L. 2007. Nanotechnology: Science, Innovation, and Opportunity.

- Friends of the Earth. 2006. Submission To The National Nanotechnology Strategy Taskforce From Friends Of The Earth Australia . Friends of the Earth website.
- Fryxell G, Cao G(. 2007. Environmental applications of nanomaterials. Imperial College Press. Xi, 507.
- Fuji Film Corporation. 2006. Solution Casting Process. WO 2006103891.
- Gerrard J. 1992. Soil Geomorphology: An Integration of Pedology and Geomorphology.
- Gill V. 2009. Nano-regulation creeps closer. RSC- Advancing the Chemical Sciences.
- Golebiewski J, Galeski A. 2007. Thermal Stability of Nanoclay Polypropylene Composites by Simultaneous DSC and TGA. Composites Science and Technology. vol 67. 3442-3447.
- Gouin S. 2004. Microencapsulation: industrial appraisal of existing technologies and trends. Trends in Food Science and Technology. vol 15. 330-347.
- Gunasekara R. 2009. Telephone Interview with the President of Sri Lanka Food Processors' Association. March. .
- HARTI website. 2009. Tomato - Total quantity produced (mt.).
- HNDE website. 2005. THE HIGHER NATIONAL DIPLOMA IN ENGINEERING (HNDE): An Overview.
- Halim S, Brunner T, Stark W. 2007. Flame Spray Synthesis Of Nanoparticles For Food Applications: Synthesis, Characterization, Potential Hazards, Cost And Scalability. Nanotechnology in the Realm of Food Science Conference.
- Hanson Lab Furniture website. 2009. *Used Fume Hoods*. [online]. [http://www.hansonlab.com/products/used\\_products/used\\_fumehoods.html](http://www.hansonlab.com/products/used_products/used_fumehoods.html)
- Hay J, Shaw S. 2001. Clay-Based Nanocomposites. AZoM.com website.
- Health Safety and Environment Office. 2006. Chapter 21- Nanomaterial and Nanotechnology . Safety and Environmental Protection Manual. No.1.
- Heidari N. 2008. UCSB Researchers Study Nanotechnology Development in China. Daily Nexus web site. vol 88(106).
- Helmut Kaiser Consultancy. 2008. Nanotechnology in Food and Food Processing Industry Worldwide 2006-2010-2015.
- Hills S. 2008. Nano Group focuses on WOW emulsions
- Holister P. 2002. The tiny revolution. CMP Cientifica
- Hosokawa Micron Ltd. 2008. Nano Milling - A Design in Miniature. Hosokawa Micron Ltd website. . .
- Hu,K.and Dickson, JM. 2006. Nanofiltration membrane performance on fluoride removal from water. Journal of Membrane Science. vol 279. 529-538.
- Hullmann A. 2007. IPR in Nanotechnology - lessons from experiences worldwide.
- Hullmann A. 2008. European activities in the field of ethical, legal and social aspects (ELSA) and governance of nanotechnology. European Commission website.
- ICES website. 2009. Spay Dryer. Insititute of Chemical and Engineering Sciences.
- IFT website. 2009. IFT International Food Nanoscience Conference.
- Ibrahim H, Bindschaedler C, Doelker E, Buri P, Gurny R. 1992. Aqueous nanodispersions prepared by a salting-out process. International Journal of Pharmaceutics. vol 87. 239-246.
- Ikeda S. 2007. Food Nanotechnology in Japan. The World of Food Science.
- Infoshop web site. 2008. The 2008 Health and Wellness Trends Report (HWTR).
- Jafari S, Assadpoora E, Bhandarib B, He y. 2008. Nano-particle encapsulation of fish oil by spray drying. Food Research International. vol 41. 172-183.
- Jain P, Pradeep T. 2004. Potential of Silver Nanoparticle-Coated Polyurethane Foam As an Antibacterial Water Filter. Wiley InterScience.
- Jaworek A, Sobczyk A. 2008. Electrospraying route to nanotechnology: An overview. Journal of Electrostatics. vol 66. 197-219.
- Jemal A, Murray T, Ward E, Samuels A, Tiwari R, Ghafoor A, Feuer E, Thun M. 2005. Cancer Statistics 2005. American Cancer Society.
- Jet Pulvarizer Company. 2008. Milling Equipment - Frequently Asked Questions. Jet Pulvarizer Company website.
- Jian L, Lee A, Binns C. 2007. Tea and lycopene protect against prostate cancer. Asia Pacific Journal of Clinical Nutrition. vol(1). 453-457.
- Jiang C, Tsukruk V. 2006. Freestanding Nanostructures via Layer-by-Layer Assembly. Advanced Materials. vol 18. 829-840.
- John C, Monica J. 2007. Threading the Nano Dermal Penetration Needle. Nanotechnology Law Report.
- Joseph T, Morison M. 2006. Nanotechnology in agriculture and food. Report Nanoforum Publication .
- Joseph, T. Morison, M.. 2006. Nanotechnology in agriculture and food. Report Nanoforum Publication. [www.nanoforum.org/nf06~modul~showmore~folder~99999~scid~377~.html?action=longview\\_publication&](http://www.nanoforum.org/nf06~modul~showmore~folder~99999~scid~377~.html?action=longview_publication&)

- KISTI. 2007. Korea's Nanotechnology Industrialization Trend. Korean NT Overview.
- Kanama, D. and Konodo, A. 2007. Analysis of Japan's Nanotechnology Competitiveness : Concern for Declining Competitiveness and Challenges for Nano-systematization. *Science and Technology Trends*. . 36-49.
- Kentisha S, Woosterb T, Ashokkumara M, Balachandrana S, Mawsonb R, Simonsb L. 2008. The use of ultrasonics for nanoemulsion preparation. *Innovative Food Science and Emerging Technologies*. vol 09(2). 170-175.
- Kerkhof N. 2006. Process for producing nanometer particles by fluid bed spray-drying. US patent 7078057.
- Kessler E, Charles M. 2007. Strategic Implications of Nanotechnology. *BUSINESS STRATEGY SERIES*. vol 8(6). 401-408.
- Khim Z. 2003. Korean nanotechnology networks and funding. National Institute for Materials Science .
- Khim Z. 2003. Korean nanotechnology networks and funding. National Institute for Materials Science website . <http://www.nims.go.jp/ws-nanonet/Speakers/Khim-SNU-Korear.pdf>.
- Kim C, Kim C, Cho Y, Chun B. 2005. Chitosan-Gelatin Nanoemulsions Prepared by SPG Membrane Process and their Characteristics. *Food Engineering Progress*. vol 09. 20-25.
- Kim W, Mauborgne-R. 2004. Blue Ocean Strategy. *Harvard Business Review*.
- Korostynska O, Arshak K, Gill E, Arshak A. 2007. Review on State-of-the-art in Polymer Based pH Sensors. *Sensors*. vol 7. 3027-3042.
- Kubota K, Katoh T, Hirata M, Hayashi K. 1993. Dyed synthetic fiber comprising silver-substituted zeolite and copper compound, and process for preparing same. United States Patent 5180402. . .
- Kulinowski K. 2008. Environmental Impacts of Nanosilver. International Council on Nanotechnology. .
- Kwakye-Awuah B. 2008. Production of silver-loaded zeolites and investigation of their antimicrobial activity. Thesis presented for the award of Doctor of Philosophy.
- LIPOCINE I. 2007. (WO/2007/018943) SOLID CARRIERS FOR IMPROVED DELIVERY OF ACTIVE INGREDIENTS IN PHARMACEUTICAL COMPOSITIONS. WIPO.
- Lanka Newspapers website. 2009. Bigger demand, better price for Sri Lankan tea.
- Leaversuch R. 2001. Nanocomposites Broaden Roles in Automotive, Barrier Packaging.
- Lee J. 2005. Overview of Nanotechnology in Korea.
- Li J, Lu Y, Ye Q, Cinke M, Han J, Majumdar M. 2003. Carbon nanotube sensors for gas and organic vapor detection. *nano letters*. vol 3(7). 929-933.
- Li J, Wang N, Wu X. 1998. Gelatin nanoencapsulation of protein/peptide drugs using an emulsifier-free emulsion method . *Journal of Microencapsulation*. vol15(2). 163-172.
- Li Q, Mahendra S, Lyon D, Brunet L, Liga M, Li P, Alvarez P. 2008. Antimicrobial Nanomaterials for Water Disinfection and Microbial Control: Potential Applications nad Implications. *Water Research*. vol 42. 4591-4602.
- Li Y, Shahbazi A, Coulibaly S. 2005. Separation of Lactic Acid from Cheese Whey Fermentation Broth Using cross- Flow Ultrafiltration and Nanofiltration Membrane System. Bioenvironmental Engineering Program, Department of Natural Resources and Environmental.
- Lin Ee S, Duan X, Liew J, Nguyen Q. 2008. Droplet size and stability of nano-emulsions produced by the temperature phase inversion method. *Chemical Engineering Journal, Science Direct*. vol.30. .
- Liu L. 2009. Asia Nano Forum. [nanoforum.org](http://nanoforum.org)
- Livney Y, Dalgleish D. 2007. Casein Micelles For Nanoencapsulation Of Hydrophobic Compounds. WO 2007122613 20071101
- Lodwick T, Rodrigues R, Sandler R, Kay W. 2007. Nnanotechnology and the Global Poor: United States Policy and International Collaborations.
- Loscertales I, Barrero A, Guerrero I, Cortijo R, Marquez M, Gañán-Calvo A. 2002. Micro/Nano Encapsulation via Electrified Coaxial Liquid Jets
- Luoma S. 2008. Silver Nanotechnologies and the Environment: Old Problems or New Challenges?. The project on emerging nanotechnologies.
- Mantovani,E, Porcari,A, Meili,C, Widmer,M. 2009. MAPPING STUDY ON REGULATION AND GOVERNANCE OF NANOTECHNOLOGIES. Nanotech project.
- Markutsya S, Jiang C, Pikus Y, Tsukruk V. 2005. Freely suspended layer-by-layer nanomembranes: Testing micromechanical properties. *Journal of Advanced Functional Materials*. vol 15(5). 771-780.
- Mathews-roth M, Welankiwar S, Sehgal P, Lausen N, Russett M, Krinsky N. 1990. Distribution of [14C]Canthaxanthin and [14C]Lycopene in Rats and Monkeys. *The Journal of Nutrition*. . 1205-1213.
- Maynard A. 2009. Nanotechnology safety research funding on the up. 2020 Science website.
- Mellvaine, R. and Vacura, K. 2006. Cleanroom air filter market. *Clean Rooms*.

- Merlan F, Raftery D(. 2009. Tracking Rural Change- Community, Policy and Technology in Australia, New Zealand and Europe. ANU E Press.
- Ministry of ADAS. 2008. Sri Lanka national agriculture policy. Ministry of Agriculture Development and Agrarian Services.
- Mora-gutierrez A, Gurin M. 2007. Nanoemulsion Compositions and Methods of Use Thereof . Free patents on line. US20070085058.
- Moraru C, Panchapakesan C, Huang Q, Takhistov P, Liu S, Kokini J. 2003. Nanotechnology: A New Frontier in Food Science. Food Technology. vol 57 (12). 24-29.
- Morris V. 2007. NANOTECHNOLOGY AND FOOD. International Union of Food Science and Technology.
- Morrison R, Green M. 2005. *Scientists, Engineers, and Technicians in the United States: 2001*. [online]National Science Foundation. Available at <http://www.nsf.gov/statistics/nsf05313/>
- Mozafari M, Flanagan J, Matia-Merino L, Awati A, Omri A, Suntres Z, Singh H. 2006. Review: Recent trends in the lipid-based nanoencapsulation of antioxidants and their role in foods. Journal of the Science of Food and Agriculture. vol 86. 2038-2045.
- NDB. 2009. European students will benefit from NANOYOU project . Nanotechnology Development Blog.
- NIOSH. 2006. Approaches to Safe Nanotechnology:An Information Exchange with NIOSH. . . .
- NIOSH. 2008. Strategic Plan for NIOSH Nanotechnology Research and Guidance: Filling the Knowledge Gaps.
- NNI. 2007. National Nanotechnology Initiative: Strategic Plan 2007.
- NNI web site. 2009. National nanotechnology Initiative.
- NNIN web site. 2008. National Nanotechnology Infrastructure Network.
- NNNP web site. 2007. Academic excellence program. National Nanoscience and Nanotechnology Program.
- Nakajima M. 2006. Nanotechnology Research for Food Science in Japan. IUFOST. . 643-651.
- Nano Health Solutions website. 2008. About Nano Health Solutions.
- NanoKNT web site. 2008. Support for the UK Micro and Nanotechnology Sector. Nanotechnology KNT.
- NanoManufacturing Institute. 2006. Nanomanufacturing News, University of Leeds. Issue 02. .
- Nanochina website. 2009. Multinationals Move on Nanotech 29-03-2009.
- Nanofood Originator's Blog. 2009. 60th INRS Seminar, 4th International Nanofood Forum in Beijing. Nanofood Originator's Blog
- Nanost website. 2007. Nanostructures in Nature.
- Nanotech India website. 2008. Nanotech India 2009.
- Nanotechnology Research Institute. 2008. Introduction to NRI facility and major equipments . Nanotechnology Research Institute, Japan.
- Nanotechnology Researchers Network Centre of Japan. 2006. Nanotechnology Research in Japan.
- National Materials Advisory Board. 2006. A Matter of Size: Triennial Review of the National Nanotechnology Initiative.
- National Science Foundation. 2008. Guide to Research and Scientific Insitutions in Sri Lanka.
- Nemets A. 2008. China's Nanotechnology Revolution. AZoNano website.
- Niira R, Uchida M. 1996. Antibiotic zeolite-containing film. US Patent 5556699.
- Nobre B, Palavra A, Pessoa F, Mendes R. 2009. Supercritical CO2 extraction of trans-lycopene from Portuguese tomato industrial waste. Food Chemistry. vol 116. 680-685.
- Office of Consumer Goods. 2008. U.S. Department of Commerce Industry Report- Food Manufacturing NAICS 311. Department of Commerce.
- Oliva M, Diez-Perez I, gorostiza P, Lastra C, Herra J, Oliva I, Marino E. 2008. Preparation and charatcerization of L-carrageenan nanospheres containing dexchlorpheniramine maleate. Technologia Pharmaceutica. . 279-281.
- Pak Y. 2007. Korea's Nano Future. Mechanical Engineering. . 26-27.
- Panigrahi B, Godkhindi M, Das K, Mukunda P, Dabhade V, Ramakrishnan P. 2005. Sintering mechanisms of attrition milled titanium nano powder. Materials Today. vol 20(4). 827-836.
- Parr D. 2005. Will Nanotechnology Make The World A Better Place?. Treands in Biotechnology. vol 23(8). 395-398.
- Paull J, Lyons K. 2008. Nano-in-food - Threat or Opportunity for Organic Food?. Processdings: 16th IFOAM Organic World Congress.
- Pharmaceutical Online. 2008. Pharmaceutical Online Newsletter.
- Philippot J, Shcuber F. 1995. *Liposomes as Tools in Basic Research and Industry*. . CRC Press



University of Moratuwa, Sri Lanka.  
Electronic Theses & Dissertations  
[www.lib.mmt.ac.lk](http://www.lib.mmt.ac.lk)

- Pinstrup-Andersen P, Pandya-Lorch R, Rosegrant M. 1999. WORLD FOOD PROSPECTS : CRITICAL ISSUES FOR THE EARLY TWENTY -FIRST CENTURY. INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE.
- Population division. 2007. The World Population Ageing 2007. United Nations Department of Economic and Social Affairs.
- Pradeep T. 2007. Nano: The Essentials - understanding nanoscience and nanotechnology. Tata McGraw-Hill Publishing. . xvii, 432.
- President's Council of Advisors on Science and Technology. 2005. The National Nanotechnology Initiative at Five Years.
- RBC Life Sciences website. 2008. Company History.
- Ratnayake G. 2007. Nano Park - Sri Lanka's government, private sector to set up nanotech park. Lanka Business Online website.
- Rausch L. 1998. High-Tech Industries Drive Global Economic Activity. NATIONAL SCIENCE FOUNDATION.
- Ray S, Yamada K, Okamoto M, Ogami A, Ueda K. 2003. Nano Poly lactide/Layered Silicate Nanocomposites.3. High-performance Biodegradable Materials. Chemical Materials. vol 15. 1456-1465.
- Ray S, Yamada K, Okamoto M, Ogami A, Ueda K. 2003. New Poly lactide/Layered Silicate Nanocomposites. 3. High-Performance Biodegradable Materials. Chemical Materials. vol 15. 1456-1465.
- Rejeski D. 2007. Feynman, voltaire and beckett on nanotechnology . Woodrow Wilson International Center for Scholars . www.nanotechproject.org. .
- Rhim, J. Hong, S. Park,H. and Ng, PKW. 2006. Preparation and Characterization of Chitosan-Based Nanocomposite Films with Antimicrobial Activity. Journal of Agricultural and Food Chemistry. vol 54(16). 5814-5822.
- Roco M. 2001. International Strategy for Nanotechnology Research and Development. Journal of Nanoparticle Research. vol 3 (5-6). 353-360.
- Roco M. 2003. Government nanotechnology funding : an international outlook. National Science Foundation. <http://www.nano.gov/html/res/IntlFundingRoco.htm>
- Rodriguez-Rojo S, Marienfeld J, Cocero M. 2008. RESS process in coating applications in a high pressure fluidized bed environment: Bottom and top spray experiments. Chemical Engineering Journal. vol 144. 531-539.
- SBA. 2008. SBIR and STTR Programs and Awards. SBA-Office of Technology website. . .
- SCENIHR. 2006. The appropriateness of existing methodologies to assess the potential risks associated with engineered and adventitious products of nanotechnologies . SCIENTIFIC COMMITTEE ON EMERGING AND NEWLY IDENTIFIED HEALTH RISKS (SCENIHR). . .
- SG. 2008. Lanka's tea export earnings top \$ 1 b. Sunday Observer.
- SPE. 2008. Nanocomposite Polypropylene Film for Food Packaging Applications.
- Samarjeewa U. 2009. Pathway to a safe food supply. Daily News website.
- Samath F. 2009. Sri Lanka: Uncertain labour markets forecast bleak economy. OneWorld South Asia.
- Sanguansri P, Augustin M. 2006. Nanoscale Materials Development - A Food Industry Perspective. Trends in Food Science and Technology. vol 17. 547-556.
- Scanna-msc website. 2009. *Isolation Box*. [online]. [http://www.scanna-msc.com/product\\_page1.html](http://www.scanna-msc.com/product_page1.html)
- ScienceDirect website. 2008. ScienceDirect search.
- Semo E, Kesselman E, Danino D, Livney Y. 2007. Casein micelle as a natural nano-capsular vehicle for nutraceuticals. Food Hydrocolloids. vol 21. 936-942.
- Sharma P, Maio W, Giri A, Raghunathan S. 2004. Nanomaterials: manufacturing, processing, and applications. Dekker Encyclopedia of Nanoscience and Nanotechnology. . 2435-2450.
- She F, Gao W, Peng Z, Hodgson P, Kong L. 2008. Micro- and nano-characterization of membrane materials. Journal of the Chinese Institution of Chemical Engineers. vol 39. 313-320.
- Shelke K. 2008. Tiny, invisible ingredients. Food processing.com.
- Shrivastava S, Bera T, Roy A, Singh G, Ramachandrarao P, Dash D. 2007. Characterization of Enhanced Antibacterial Effects of Novel Silver Nanoparticles. Nanotechnology . vol 18. 225103 (9pp) .
- Skandan G, Singhal A. 2004. Nanomaterials: Recent advances in technology and industry. Dekker Encyclopedia of Nanoscience and Nanotechnology. . 2465-2476.
- Solans C, Izquierdo p, Nolla J, Azemar N, Garcia-Celma M. 2005. Nano-emulsions. Current Opinion in Colloid and Interface Science. vol 10. 102-110.
- Sood K. 2003. Nanotechnology flourishes in japan. Larta . [www.larta.org/lavox/articlelinks/2003/031006\\_nanojapan.asp](http://www.larta.org/lavox/articlelinks/2003/031006_nanojapan.asp).

- Sorrentino A, Gorrasi G, Vittoria V. 2007. Potential Perspectives of Bio-nanocomposites for Food Packaging Applications. *Trends in Food Science and Technology*. vol 18. 84-95.
- Soundararajaha.Q.Y. Karunaratne, B.S.B. and Rajapakse,R.M.G.. 2009. Montmorillonite polyaniline nanocomposites: Preparation, characterization and investigation of mechanical properties . *Materials Chemistry and Physics*. vol 113(2-3). 850-855.
- Sozer N, Kokini J. 2009. Nanotechnology and Its Applications in the Food Sector. *Trends in Biotechnology*. articles in press.
- Sozer, N. and Kokini, J.L.. 2009. Nanotechnology and its applications in the food sector. *Trends in Biotechnology*. articles in pres
- Srivastava V. 2007. Reaching the critical mass in Indian nanotechnology industry. *Nanotechnology Now*
- Srivastava V. 2007. Reaching the critical mass in indian nanotechnology industry. *Nanotechnology Now* website. <http://www.nanotech-now.com/columns/?article=069>
- Sriyananda S. 2009. Lanka's Green Tea prevents strokes . *Sunday Observer*.
- Subramanian R, Denny P, Singh J. 1998. A Novel Technique for Synthesis of Silver Nanopartilces by Laser-liquid Interaction. *Journal of Materials Science*. vol 33. 3471-3477.
- Suoqi Z, Yunxiang H, Guopeng Q, Renan W. . Extracting Lycopene from Tomato Powders by Supercritical Propane and Carbon Dioxide with Industrial Scale Pilot.
- Sutherland K. 2008. Developments in filtration: What is nanofiltration?. *Filtration and Separation*.
- Tanaka M. 2004. Toward a Proposed Ontology for Nanoscience. *Canada Society for Information Science*.
- Tanga S, Zoua P, Xiong H, Tang H. 2008. Effect of nano-SiO<sub>2</sub> on the performance of starch/polyvinyl alcohol blend films . *Carbohydrate Polymers*. vol 27(3). 521-526.
- Technology Market website. 2009. *Technology Transfer Principle & Strategy*.
- Technology Transfer Division. 2008. *Technology Transfer Mechanisms*. Los Alamos National Laboratory.
- The Sunday Times. 2009. Sri Lanka Institute of Nanotechnology aims to produce Sri Lankan nanotech intellectual property by 2012 . *Nanowork*.
- Thomas T, Thomas K, Sadrieh N, Savage N, Adair P, Bronaugh R. 2006. Research Strategies for Safety Evaluation of Nanomaterials, Part VII: Evaluating Consumer Exposure to Nanoscale Materials. *Journal of Toxicological Sciences*. vol 21(1). 14-19.
- Tong H, Jansen H, Gadgil V, Bostan C, Berenschot E, Rijn C, Elwenspoek M. 2004. Silicon Nitride Nanosieve Membrane. *Nano Letters*. vol 4(2). 285-287.
- Tonnie A. 2007. A Reference Searching Related to Nanomaterials, Food Packaging and Sustainability. Dpt of Mechanical Engineering, Blekinge Institute of Technology. . .
- Torres-Ginera S, Gimenezb E, Lagaron J. 2008. Characterization of the morphology and thermal properties of Zein Prolamine nanostructures obtained by electrospinning. *Food Hydrocolloids*. vol 22. 601-614.
- Tran C, Donaldson K, Stones V, Fernandez T, Ford A, Christofi N, Ayres J, Steiner M, Hurley J, Aitken R, Seaton A. 2005. A Scoping Study to Identify Hazard Data Needs for Addressing the Risks Presented by Nanoparticles and Nanotubes. *Research Report*.
- U-Shu Nanotech website. 2009. Home.
- U-shu Nanotech. 2008. *Nanotechnology in India: List of companies in nano-biotechnology*.
- UK Trade and Investment. 2008. *Nanotechnology in the UK*.
- Uni. of California. 2006. *Review of Safety Practices in the Nanotechnology Industry*. International Council on Nanotechnology.
- University of California. 2006. *A Review of Current Practices in the Nanotechnology Industry*. International Council on Nanotechnology
- Utracki L, Kamal M. 2002. Clay-containing Polymeric Nanocomposites. *The Arabian Journal for Science and Engineering*. vol 27(1c).
- VIC. 2007. *Roadmap for Safety Research on Nanomaterials*.
- VIN laboratory web site. 2009. *Veeco-India Nanotechnology Laboratory (VIN Laboratory)*.
- WIPO. 2006. *PROTECTING YOUR INVENTIONS ABROAD: FREQUENTLY ASKED QUESTIONS ABOUT THE PATENT COOPERATION TREATY (PCT)*. WORLD INTELLECTUAL PROPERTY ORGANIZATION.
- Wang L, Muhammed M. 1999. Synthesis of zinc oxide nanoparticles with controlled morphology. *Journal of Materials Chemistry*. vol 9. 2871-2878.
- Warushamanna G. 2007. Two Nano Technology Institutions To Be Launched With Private Sector Support. *The Island*.



- Watanabe H, Vendamme R, Kunitake T. 2007. Development of fabrication of giant nanomembranes. Bulletin of Chemical Society Japan. vol 80(3). 433-440.
- Weiss J, Takhistov P, McClements D. 2006. Functional Materials in Food Nanotechnology. Journal of Food Science. vol 71(9). 107-116.
- Wikipedia web site. 2008. Emulsion. Wikipedia website
- Williams I. 2002. Process for Production of Nanoparticles and Microparticles by Spray Freezing into Liquid. US Patènt # 6862890.
- Wolfe J. 2008. Safer and guilt-free nano foods . Forbes/wolfe nanotech report.
- Wong Y, Yuen C, Leung M, Ku S, Lam H. 2006. Selected applications of nanotechnology in textiles. AUTEX Research Journal. vol 6(1)
- Woodrow Wilson International Centre for Scholars. 2008a. *The Project On Emerging Nanotechnologies: Inventory*. [online].
- Woodrow Wilson International Centre for Scholars. 2009. Consumer Products Inventory. . . .
- Woodrow Wilson International centre for Scholars. 2008b. *The Project On Emerging Nanotechnologies: Analysis*. [online].//www.nanotechproject.org/inventories/consumer/analysis\_draft/
- Woodrow Wilson Project on Emerging Nanotechnologies. 2009. World's First Mandatory National Nanotech Requirement Pending.
- World Food Program. 2007. Sri Lanka food security assessment, based on the integrated food security and humanitarian phase classification approach.
- Yang B, Zhang J. 2004. Nanoparticles: Synthesis in polymer substrates. Dekker Encyclopedia of Nanoscience and Nanotechnology.
- Yang K, Wang X, Wang Y. 2007. Progress in Nanocomposite of Biodegradable Polymer. Journal of Industrial Engineering Chemistry. vol13(4). 485-500.
- Yang S, Ryu I, Kim H, Kim J, Jang J, Russell T. 2006. Nanoporous Membranes with Ultrahigh Selectivity and Flux for the Filtration of Viruses. Advanced Materials. vol 18. 709-712.
- Yeh A, Hwang L. 2007. Status of Applying Nanotechnology in Food in Taiwan. IFT International Food Nanoscience.
- Yeh A, Hwang L. 2007. Status of Applying Nanotechnology in Food in Taiwan. World of Food Science.
- Youtie, J, Shapira, P. and Porter, AL. 2008. Nanotechnology, publications and citations, by leading countries and blocs. Journal of Nanoparticle Research. vol 10((6). 981-986.
- Yuan Y, Gao Y, Zhao J, Mao J. 2008. Characterisation and stability evaluation of beta-carotene nanoemulsions prepared by high pressure homogenization under various emulsifying conditions. Food Research International. vol 41. 61-68.
- Zhong Q. 2009. Research Interests - Delivery Systems for Food Ingredients. Department of Food Science and Technology- University of Tennessee.
- del Nobile M, Cannarsi M, Altieri C, Sinigaglia C, Favia P, Iacoviello G, Agostino R. 2004. Effect of Ag-containing Nano-composite Active Packaging System on Survival of Alicyclobacillus acidoterrestris . Journal of Food Science. vol 69 (8). 379-383.
- vmMBA website. 2007. The Virtualization Adoption Lifecycle. . . .



University of Moratuwa, Sri Lanka.  
 Electronic Theses & Dissertations  
 www.lib.mrt.ac.lk