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- Current Position** 2013 – Now
Assistant Professor, Tarbiat Modares University, Tehran, Iran
- Research Interests** Develop nanoparticles for medical and environmental applications
- Contrast agents in MRI and CT imaging
 - Cell tracking
 - Magnetic hyperthermia treatment
 - Remove environmental pollution by nanostructures
- Experience**
- Lecturer (MSc and PhD students), Tarbiat Modares University, Tehran, Iran
Nanomagnetism, Nanomaterials, Nanochemistry and Materials analysis
2013 – Now
- Director and Joint Owner, Teb Sanat Rahyab Co. Tehran, Iran
2013 – Now
- Postdoc, Sharif University of Technology, Tehran, Iran
2012 – 2013
- Visitor, Uppsala University, Uppsala, Sweden
2011 – 7 months
- Education**
- Philosophy of Doctorate in Nanomaterials
Institute for Nanoscience and Nanotechnology, Sharif University of Technology
Tehran, Iran
2007-2012
- Master of Science in Nanomaterials
Materials Engineering Department, Tarbiat Modares University
Tehran, Iran
2005-2007
- Bachelor of Science
Materials Science and Engineering Department, Sharif University of Technology
Tehran, Iran
2001-2005
- Research Grant**
- Ministry of Industry, Mine and Trade, Iran, 2016
Microelectronic Research and Development Center, Iran, 2015
Nanotechnology Initiative Council, Iran, 2013 and 2015
Sharif University of Technology (Research assistant scholarship), Iran, 2009-2011

Computer Tools	Vampire (Atomistic simulation of magnetic nanomaterials) StatGraphics (Data analysis and statistical software) X'Pert software (XRD data analysis) Mathematica, Origin, Image J
Languages	Persian (Mother tongue) English (Fluent) German (Elementary)
Publication	<p>ISI Articles</p> <p>S. Dadashi, R. Poursalehi and H. Delavari H. Formation, gradual oxidation mechanism and tunable optical properties of Bi/Bi₂O₃ nanoparticles prepared by Nd:YAG laser ablation in liquid: Dissolved oxygen as genesis of tractable oxidation <i>Materials Research Bulletin</i> 2017, Accepted.</p> <p>M Firouzi, R Poursalehi, H Delavari H., F Saba, MA Oghabian Chitosan coated tungsten trioxide nanoparticles as a contrast agent for X-ray computed tomography <i>International Journal of Biological Macromolecules</i> 98:2017: 479-485</p> <p>M. Hasanpoor, M. Aliofkhazraei, H. Delavari H. In-situ study of mass and current density for electrophoretic deposition of zinc oxide nanoparticles <i>Ceramics International</i>, 42:2016:6906–6913</p> <p>H. Delavari H., H.R. Madaah Hosseini and M.Wolff Magnetic domain regime-controlled synthesis of nickel nano-particles by applying statistical experimental design in modified polyol process <i>Materials Chemistry and Physics</i>, 168:2015:117–121</p> <p>P. Vahdatkhah, H.R. Madaah Hosseini, A. Khodaei, A.R. Montazerabadi, R. Irajirad, M.A. Oghabian; H. Delavari H. Rapid microwave-assisted synthesis of PVP-coated ultrasmall gadolinium oxide nanoparticles for magnetic resonance imaging <i>Chemical Physics</i>, 453:2015:35-41</p> <p>A.R. Montazerabadi, M.A. Oghabian, R. Irajirad, S. Muhammadnejad, D. Ahmadvand, Hamid Delavari H., Seyed Rabie Mahdavi Development of gold-coated magnetic nanoparticles as a potential MRI contrast agent <i>Nano</i>, 10:2015:1550048</p> <p>H. Delavari H., H.R. Madaah Hosseini and M.Wolff Modeling of self-controlling hyperthermia based on nickel alloy ferrofluids: Proposition of new nanoparticles</p>

Journal of Magnetism and Magnetic Materials 335:2013:59–63

H. Delavari H., H. R. Madaah Hosseini, A. Simchi
Effects of particle size, shape and crystal structure on the formation energy of Schottky vacancies in free-standing metal nanoparticles: A model study
Physica B, 406:2011: 3777-3780

H. Delavari H., H. R. Madaah Hosseini, A. Simchi
A simple model for the size and shape dependent Curie temperature of freestanding Ni and Fe nanoparticles based on the average coordination number and atomic cohesive energy
Chemical Physics, 2011, 383:2011:1-5

H. Omid, **H. Delavari H.,** H. R. Madaah Hosseini
Melting enthalpy and entropy of freestanding metallic nanoparticles based on cohesive energy and average coordination number
The Journal of Physical Chemistry C, 115:2011:17310–17313

H. Delavari H. and M. Kokabi
Silicon Carbide Nanowires from Polyvinyl Alcohol/Silica Electrospun Nanofibers
Nano, 6:2011:41–45

R. Shidpour, **H. Delavari H.,** M. Vossoughi
Analytical Model Based on Cohesive Energy to Indicate the Edge and Corner Effects on Melting Temperature of Metallic Nanoparticles
Chemical Physics, 378:2010:14-18

US Patent

Magnetic Separation Device, Application Number: 29615331

References

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