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Current Position

February 2019 – Now

**Associate Professor in Nanomaterials, Faculty of Engineering
Tarbiat Modares University, Tehran, Iran**

Research Interests

- Optical properties of nanomaterials
- Energy and environmental applications of nanomaterials
- Laser nanomaterials processing

Experience

Lecturer (MSc and PhD students), Tarbiat Modares University, Tehran, Iran
Nanophysics, Quantum mechanics for nanostructures, Nano-magnetism,
Nanomaterials II, Materials analysis, Optical properties of nanomaterials and
Semiconductor nanostructures

2012 – Now

Supervisor (16 MSc and 3 PhD students), Tarbiat Modares University, Tehran,
Iran

2012 – Now

Education

- Philosophy of Doctorate in Physics, Department of Physics, Sharif University of Technology, Tehran, Iran, **2002-2008**.
- Master of Science in Physics, Department of Physics, Sharif University of Technology, Tehran, Iran, **2000-2002**.
- Bachelor of Science, Department of Physics, Sharif University of Technology, Tehran, Iran, **1995-1999**.

Research Grant

- Ministry of Science Research and Technology
- Iran's National Elites Foundation

Computer Tools

- C++, Python, Spectra Analysis Software, Linux

Languages

- Persian (Mother tongue)
- English

- **Honors and Awards**

- Certificate of Educational excellence, Tarbiat Modares University, 2022.
- Certificate of Appreciation in Educational excellence, Tarbiat Modares University, 2019
- Top 10 student in physics department, Sharif University of Technology, 1999.
- Honor of Top Teaching Assistant at Sharif University of Technology, 2008.
- Scholarship of PhD research, 2003-2004, Sharif University of Technology
- Scholarship of PhD research, 2005-2007, Sharif University of Technology
- Scholarship of PhD talent students, 2004-2007, Sharif University of Technology
- Scholarship of talent student, 2006-2008, Iran's National Elites Foundation
- 3rd Rank of Khwarizmi Young Award, 2008.

Publication

- Modification of Diatomite with Iron Oxide as an Effective Adsorbent of Selenite Ions from Water: Synthesis, Kinetic, and Thermodynamic Studies, F Talaei Shoar, H Delavari H, R Poursalehi, Water Conservation Science and Engineering 8 (1), 8, **2023**.
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- Structural, Optical and Photocatalytic Activity of Multi-heterojunction Bi₂O₃/Bi₂O₂CO₃/(BiO)₄CO₃(OH)₂ Nanoflakes Synthesized via Submerged DC Electrical Discharge in Urea Solution, E Hashemi, R Poursalehi, H Delavari Nanoscale Research Letters 17 (1), 1-16, **2022**.
- A comparative study of the effects of phase composition on optical properties and photocatalytic activity of α -/ β -/ γ -Bi₂O₃ multi-heterojunction prepared by submerged DC electrical arc discharge, E Hashemi, R Poursalehi, H Delavari
- Journal of Materials Research 37 (15), 2378-2395, **2022**.

- Shed light on the effect of carrier organic liquids on size, phase composition and optical properties of colloidal bismuth nanoparticles prepared by submerged DC electrical arc, E Hashemi, R Poursalehi, H Delavari, Journal of Materials Research 37 (15), 2378-2395 **2022**.
- Online determination of froth structure in industrial flotation cell of Sungun copper processing plant, S Namdari, M Mohseni, R Poursalehi, Iranian Journal of Mining Engineering 17 (56), **2022**.
- Photoelectrochemical properties of butane reduced flame-treated Zr-doped hematite thin films, N Mouchani, A Yourdkhani, R Poursalehi, Journal of the American Ceramic Society 105 (8), 5274-5284, **2022**.
- Fast-switching electrochromic response of WO₃/ZnO of plate-like particles synthesized by liquid phase deposition (vol 879, 160418, 2021), M Mohammad-Hosseinpour, A Yourdkhani, R Poursalehi, JOURNAL OF ALLOYS AND COMPOUNDS 903, **2022**.
- Photoelectrochemical properties of gradient Ti-doped hematite thin films prepared by liquid phase deposition, M Rasouli, A Yourdkhani, R Poursalehi, Materials Science in Semiconductor Processing 142, 106476, **2022**.
- Kinetic, equilibrium, and thermodynamic studies for adsorptive removal of nickel ions by thermally modified diatomite from aqueous solution, F Taleae Shoar, H Delavari H, R Poursalehi, Emergent Materials 5 (2), 401-412, **2022**.
- shed light on defect induced enhanced visible-light photocatalysis activity of rutile TiO₂ nanoparticles: effects of annealing on blue-gray to light-gray transition, A Ziashahabi, R Poursalehi, N Naseri, R Peymani, Journal of Materials Research and Technology 17, 2400-2409, **2022**.
- A comparative study of the effects of phase composition on optical properties and photocatalytic activity of α -/ β -/ γ -Bi₂O₃ multi-heterojunction prepared by ..., E Hashemi, R Poursalehi, H Delavari, Materials Technology, 1-19, **2022**.
- Photoelectrochemical properties of butane flame-treated niobium-doped hematite thin films grown by the liquid-phase deposition method, R Montahaei, SAS Ebrahimi, A Yourdkhani, R Poursalehi, Journal of Alloys and Compounds 894, 162428, **2022**.
- Enhancing the efficiency and stability of perovskite solar cells based on moisture-resistant dopant free hole transport materials by using a 2D-BA₂PbI₄ interfacial layer, FS Ghoreishi, V Ahmadi, M Alidaei, FA Roghabadi, M Samadpour, ..., Physical Chemistry Chemical Physics 24 (3), 1675-1684, **2022**.
- How does water of crystallization influence the optical properties, band structure and photocatalytic activity of tungsten oxide?, M Karimkhah, A

- Yourdkhani, E Moradpur-Tari, R Poursalehi, ..., Surfaces and Interfaces 27, 101493, **2021**.
- Fast-switching electrochromic response of $\text{WO}_3 \cdot 2\text{H}_2\text{O}$ of plate-like particles synthesized by liquid phase deposition, M Mohammad-Hosseinpour, A Yourdkhani, R Poursalehi, Journal of Alloys and Compounds 879, 160418, **2021**.
 - Efficacy of green synthesized silver nanoparticles via ginger rhizome extract against *Leishmania major* in vitro, M Mohammadi, L Zaki, A KarimiPourSaryazdi, P Tavakoli, A Tavajjohi, ..., PloS one 16 (8), e0255571, **2021**.
 - Nano-scale simulation of oil-water-nanosilica-rock system: Wettability and rheological properties alteration using charged nanoparticles, JS Yekshaveh, A Jafari, Z Tohidi, RP Salehi, Journal of Petroleum Science and Engineering 195, 107724, **2020**.
 - Enhanced performance of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells via interface modification using phenyl ammonium iodide derivatives, FS Ghoreishi, V Ahmadi, R Poursalehi, M SamadPour, MB Johansson, ..., Journal of Power Sources 473, 228492, **2020**.
 - Tuning the optical response of cross-linked $\text{Fe}@ \text{Au}$ nanoparticles, N Ahmadi, R Poursalehi, A Kirilyuk, MK Moravvej-Farshi, Applied Surface Science 514, 145921, **2020**.
 - Optical and magnetic properties of iron-enriched $\text{Fe}/\text{Fe}_x\text{O}_y@ \text{Au}$ magnetoplasmonic nanostructures, E Kheradmand, R Poursalehi, H Delavari, Applied Nanoscience 10 (4), 1083-1094, **2020**.
 - Design of a backscatter-free waveguide based on photonic topological insulators, M Mehdipour, V Ahmadi, R Poursalehi, International Journal of Optics and Photonics 14 (1), 85-90, **2020**.
 - Candle flame-treatment as an effective strategy to enhance the photoelectrochemical properties of Ti-doped hematite thin films, M Saeidi, A Yourdkhani, SAS Ebrahimi, R Poursalehi, Journal of Materials Chemistry C 8 (34), 11950-11961, **2020**.
 - Studying the cold sintering process of zinc ferrite as an incongruent dissolution system, M Kamani, A Yourdkhani, R Poursalehi, R Sarraf-Mamoory, International Journal of Ceramic Engineering & Science 1 (3), 125-135, **2019**.
 - The effect of silver oxidation on the photocatalytic activity of Ag/ZnO hybrid plasmonic/metal-oxide nanostructures under visible light and in the dark, A Ziashahabi, M Prato, Z Dang, R Poursalehi, N Naseri
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- Size and Shape Effect on the Curie temperature of Gadolinium of Nanostructures: Monte Carlo Simulation, AR Mohseni Basir, H Delavari H, R Poursalehi, *Nanoscale* 6 (2), 81-86, **2019**.
- Effect of gold plasmonic shell on nonlinear optical characteristics and structure of iron based nanoparticles, N Ahmadi, R Poursalehi, A Kirilyuk, MK Moravvej-Farshi, *Applied Surface Science* 479, 114-118, **2019**.
- X-ray attenuation and mechanical properties of tungsten-silicone rubber nanocomposites, M Dejangah, M Ghojavand, R Poursalehi, PR Gholipour, *Materials Research Express* 6 (8), 085045, **2019**.
- DC Arc discharge synthesized zirconia nanoparticles: Shed light on arc current effects on size, crystal structure, optical properties and formation mechanism, R Peymani, R Poursalehi, A Yourdkhani, *Materials Research Express* 6 (7), 075002, **2019**.
- Effect of C/H and C/O ratios on the arc discharge synthesis of titanium carbide nanoparticles in organic liquids, N Rahnamai Haghighi, R Poursalehi, *Applied Nanoscience* 9 (3), 411-421, **2019**.
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- Effect of gold plasmonic shell on nonlinear optical characteristics and structure of iron based nanoparticles, Najme Ahmadi, Reza Poursalehi, Andrei Kirilyuk, Mohammad Kazem Moravvej Farshi, *Applied Surface Science*, Vol. 479, 114-118, **2019**.
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- Effect of C/H and C/O ratios on the arc discharge synthesis of titanium carbide nanoparticles in organic liquids, NR Haghighi, R Poursalehi, Applied Nanoscience, 1-11, DOI: 10.1007/s13204-018-00946-7, **2019**.
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- Optical and structural properties of Bi-based nanoparticles prepared via pulsed Nd: YAG laser ablation in organic liquids
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- Rapid microwave-assisted synthesis of Bi₂Te₃ nanoflakes as an efficient contrast agent for X-ray computed tomography, M Mahvi, H Delavari, R Poursalehi, Ceramics International, 54, 16-19, **2018**.
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- FF Soleimani, T Saleh, SA Shojaosadati, R Poursalehi
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- Formation, gradual oxidation mechanism and tunable optical properties of Bi/Bi₂O₃ nanoparticles prepared by Nd: YAG laser ablation in liquid: Dissolved oxygen, S Dadashi, R Poursalehi, Materials Research Bulletin 97, 421-427, 3, **2018**.
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- A Ziashahabi, R Poursalehi, N Naseri, Materials Science in Semiconductor Processing 72, 128-133, 1, **2017**.
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- Characterization of Al-CNT Composite Nanoparticles Synthesized by Electrical Explosion of Wire in Acetone, A Moseh, H Shahverdi, R Poursalehi, ADVANCED MATERIALS IN ENGINEERING (ESTEGHLAL) 35 (2), 47-53, **2016**.
- The Effects of Laser Wavelength and Particle Size on Heating and Melting of Gold Nanoparticles Dispersed in Liquid, S Malek, R Poursalehi, Scientia Iranica 23 (3), 1489-1495, **2016**.
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- M Gholampour, A Abdollah-zadeh, L Shekari, R Poursalehi, Ceramics International 41 (10), 13855-13860, 6, **2015**.
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- The effect of dissolved oxygen in arc medium on crystal structure and optical properties of iron based nanoparticles prepared via DC arc discharge in water

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- Optical Properties of Pure and Alloyed Silver-Copper Nanoparticles Embedded and Coupled in Dielectric Matrixes, HZ Hashjin, R Poursalehi, Procedia Materials Science 11, 717-721, **2015**.
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- The effect of liquid environment on size and aggregation of gold nanoparticles prepared by pulsed laser ablation, R Poursalehi, SM Mahdavi, Journal of Nanoparticle Research 9 (5), 853-860, 39, **2007**.
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