

## Reza Poursalehi

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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

- 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
- 3<sup>rd</sup> Rank of Khwarizmi Young Award, 2008.

### Publication

- Microstructure, electrical and magnetic properties of  $\text{MgFe}_2\text{O}_4$  sintered with  $(1-x)\text{Bi}_2\text{O}_3 \cdot x\text{Fe}_2\text{O}_3$  additives, K Abbasi, A Yourdkhani, R Poursalehi, Journal of the European Ceramic Society, 116823, **2024**.
- A facile route for decoration of hematite photoanodes by transition metal hydroxide co-catalysts, S Dadashi Radvar, A Yourdkhani, R Poursalehi, Journal of the American Ceramic Society 107 (8), 5178-5189, **2024**.
- Design and analysis of 2D one-way splitter waveguide based on topological photonics, M Mehdipoura, M Moeini, V Ahmadi, R Poursalehi, Scientific Reports 14 (1), 12905, **2024**.
- Urea-driven g- $\text{C}_3\text{N}_4$  nanostructures for highly efficient photoreduction of Cr (vi) under visible LED light: effects of calcination temperature, F Safari, R Poursalehi, H Delavari, RSC advances 14 (37), 26943-26953, **2024**.
- Targeted theranostics agent based on polydopamine/hyaluronic acid nanoparticles for MRI and photothermal therapy, S Orangi, H Delavari H, S

- Davaran, R Poursalehi, M Ranjbar, *Polymers for Advanced Technologies* 35 (1), e6253, **2024**.
- Highly efficient photocatalytic removal of concentrated PEX, PAX and SIPX xanthates collectors by an immobilized nanostructured g-C<sub>3</sub>N<sub>4</sub>/ZnO low power backlighted module, M Fallahpour, R Poursalehi, A Yourdkhani, *Minerals Engineering* 204, 108416, **2023**.
  - Post-annealing of hematite films: The changes in surface chemistry, lattice dynamics, and photoelectrochemical properties, AH Farahmand-Dashtarjandi, A Yourdkhani, R Poursalehi, *Journal of Alloys and Compounds* 962, 171122, **2023**.
  - Oxygen vacancy modulation of hematite thin films using annealing in graphite bed for photoelectrochemical applications, N Mouchani, AH Farahmand-Dashtarjandi, A Yourdkhani, R Poursalehi, *Surfaces and Interfaces* 42, 103456, **2023**.
  - Surface passivation of hematite photoanodes using iron phosphate F Parveh, A Yourdkhani, R Poursalehi, *New Journal of Chemistry* 47 (33), 15588-15598, **2023**.
  - 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**.
  - Synthesis and Characterization of Polydopamine Nanoparticles Functionalized with Hyaluronic Acid as a Potentially Targeted Computed Tomography Contrast Agent, A Shariati, H Delavari H, R Poursalehi, *BioNanoScience*, 1-12, **2023**.
  - Structural, Optical and Photocatalytic Activity of Multi-heterojunction Bi<sub>2</sub>O<sub>3</sub>/Bi<sub>2</sub>O<sub>2</sub>CO<sub>3</sub>/(BiO)<sub>4</sub>CO<sub>3</sub>(OH)<sub>2</sub> 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  $\alpha$ -/ $\beta$ -/ $\gamma$ -Bi<sub>2</sub>O<sub>3</sub> 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 WO<sub>3</sub>·2H<sub>2</sub>O 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 Talaee 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 TiO<sub>2</sub> 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  $\alpha$ -/ $\beta$ -/ $\gamma$ -Bi<sub>2</sub>O<sub>3</sub> multi-heterojunction prepared by ..., E Hashemi, R Poursalehi, H Delavari, Materials Technology, 1-19, **2022**.
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- Enhancing the efficiency and stability of perovskite solar cells based on moisture-resistant dopant free hole transport materials by using a 2D-BA<sub>2</sub>PbI<sub>4</sub> interfacial layer, FS Ghoreishi, V Ahmadi, M Alidaei, FA Roghabadi, M Samadpour, ..., Physical Chemistry Chemical Physics 24 (3), 1675-1684, **2022**.
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- Optical and magnetic properties of iron-enriched Fe/FexOy@ Au magnetoplasmonic nanostructures, E Kheradmand, R Poursalehi, H Delavari, Applied Nanoscience 10 (4), 1083-1094, **2020**.
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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**.
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- 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**.
- Green synthesis of silver nanoparticles using Zingiber officinale and Thymus vulgaris extracts: characterisation, cell cytotoxicity, and its antifungal activity against Candida, M Mohammadi, SA Shahisaraee, A Tavajjohi, N Pournoori, ... IET nanobiotechnology 13 (2), 114-119, **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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- Formation, gradual oxidation mechanism and tunable optical properties of Bi/Bi<sub>2</sub>O<sub>3</sub> nanoparticles prepared by Nd: YAG laser ablation in liquid: Dissolved oxygen, S Dadashi, R Poursalehi, Materials Research Bulletin 97, 421-427, 3, **2018**.
- Formation mechanism of bead-chain-like ZnO nanostructures from oriented attachment of Zn/ZnO nanocomposites prepared via DC arc discharge in liquid
- A Ziashahabi, R Poursalehi, N Naseri, Materials Science in Semiconductor Processing 72, 128-133, 1, **2017**.
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- Green Method for Synthesizing Gallium Nitride Nanostructures at Low Temperature, M Gholampour, A Abdollah-zadeh, L Shekari, R Poursalehi
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- Microwave-assisted Sintering of Fe-Al<sub>2</sub>O<sub>3</sub> Nanocomposites: Study of Corrosion and Wear Properties, M Baghani, M Aliofkhazraei, R Poursalehi, Procedia Materials Science 11, 689-694, **2015**.
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