


CURRICULUM VITAE

Personal information	
<i>Name</i>	Morteza Golmohammadi
<i>Place and Date of Birth</i>	Birjaqnd, Iran, 1985
<i>Nationality</i>	Iranian
<i>Marital Status</i>	Married
<i>Business Address</i>	Department of Chemical Engineering, Birjand University of Technology, Birjand, Iran.
<i>Phone</i>	+98(56)32391229
<i>Academic Degree</i>	Ph. D. of Chemical Engineering
<i>Academic Position</i>	Assistant Professor of Chemical Engineering
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Academic information	
<i>B.Sc.</i>	Chemical Engineering, University of Tehran, Tehran, Iran, 2003–2007
<i>M. Sc.</i>	Chemical Engineering, University of Tehran, Tehran, Iran, 2007–2010
<i>Title of M.Sc. thesis</i>	Energy Optimization of a Fluidized Bed Paddy Rice Dryer
<i>Ph.D.</i>	Chemical Engineering, Tarbiat Modares University, 2012-2016
<i>Title of Ph.D. thesis</i>	Supercritical Water Destruction of Light and Heavy Organic Compounds Using Metal Oxide Nanocatalysts

Courses Thought
Thermodynamics, B. Sc.
Heat transfer I, II, B. Sc.
Applications of Mathematics to Chemical Engineering, B. Sc.

Design of experiment, B. Sc.

Transport phenomena, B. Sc.

Laboratory of heat transfer, B. Sc.

Distinctions and Honours

Ranked 1st among Ph.D Graduate students of Department of Chemical Engineering, Tarbiat Modares University.

Being among top 10% students at School of Chemical Engineering, University of Tehran

Research Interests

Green Synthesis of Nanoparticles and Nanocomposites.

Application of Agricultural Wastes as Adsorbents

Nano cellulose applications

Supercritical Water Oxidation

Nanoparticle Synthesis in Supercritical Water

Mathematical Modeling

Skills

- Computational softwares:
MATLAB, ASPEN, Design Expert, Mendeley, Microsoft Office, Adobe Photoshop, Excel, etc.
- Devices:
NMR, GC-MS, FTIR, SEM, TEM, EDX, AFM, TGA, BET, XRD, etc.

Publications (ISI Papers)

M. Golmohammadi, M. Honarmand, S. Ghanbari, "A green approach to synthesis of ZnO nanoparticles using jujube fruit extract and their application in photocatalytic degradation of organic dyes". *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 229, 117961, (2020).

<p>M. Honarmand, M. Golmohammadi, A. Naeimi, "Green synthesis of SnO₂-bentonite nanocomposites for the efficient photodegradation of methylene blue and eriochrome black-T". <i>Materials Chemistry and Physics</i>, 241, 122416, (2020).</p>
<p>M. Honarmand, M. Golmohammadi, A. Naeimi, "Biosynthesis of tin oxide (SnO₂) nanoparticles using jujube fruit for photocatalytic degradation of organic dyes". <i>Advanced Powder Technology</i>, 30, 1551-1557, (2019).</p>
<p>M. Golmohammadi, S.J. Ahmadi, j. Towfighi, " Catalytic supercritical water destructive oxidation of tributyl phosphate: Study on the effect of operational parameters". <i>The Journal of Supercritical Fluids</i>, 140, 32-40 (2018).</p>
<p>M.R. Kosari, M. Golmohammadi, j. Towfighi, S.J. Ahmadi, "Decomposition of tributyl phosphate at supercritical water oxidation conditions: Non-catalytic, catalytic, and kinetic reaction studies". <i>The Journal of Supercritical Fluids</i>, 133, 103-113 (2018).</p>
<p>M.R. Kosari, M. Golmohammadi, S.J. Ahmadi, j. Towfighi, A. Heidari, "On the catalysis capability of transition metal oxide nanoparticles in upgrading of heavy petroleum residue by supercritical water". <i>The Journal of Supercritical Fluids</i>, 126, 14-24 (2017).</p>
<p>M. Golmohammadi, S.J. Ahmadi, J. Towfighi, "Catalytic cracking of heavy petroleum residue in supercritical water: study on the effect of different metal oxide nanoparticles ". <i>The Journal of Supercritical Fluids</i>, 113, 136-143 (2016).</p>
<p>M. Golmohammadi, J. Towfighi, M. Hosseinpour, S.J. Ahmadi, "An investigation into the formation and conversion of metal complexes to metal oxide nanoparticles in supercritical water". <i>The Journal of Supercritical Fluids</i>, 107, 699-706 (2016).</p>
<p>M. Golmohammadi, M. Foroughi-dahr, M. Rajabi-hamaneh, A. Shojamoradi S.J. Hashemi, "Study on Drying Kinetics of Paddy Rice: Intermittent Drying". <i>Iranian Journal of Chemistry and Chemical Engineering</i>, 35 (3) 105-117 (2016).</p>
<p>M. Assar, M. Golmohammadi, M. Rajabi-Hamaneh, M. Nabipoor Hassankiadeh, "Combined Experimental and Theoretical Approach to Study Temperature and Moisture Dynamic Characteristics of Intermittent Paddy Rice Drying". <i>Chemical Engineering Communications</i>, 203 (9), 1242-1250 (2016).</p>
<p>A. Daraei, M. Nabipoor Hassankiadeh, M. Golmohammadi. "Effect of Polyethylene Glycol (PEG) Powder on Compressibility and Microstructural Properties of Sintered α-Alumina". <i>Chemical Engineering Communications</i>, 203 (1), 47-52 (2016).</p>
<p>M. Nabipoor Hassankiadeh, M. Moghadamrezaee, M. Golmohammadi, A. naderifar, " Ag/Amberlyst 15: Novel Adsorbent for Removal of Iodide Compounds From the Acetic Acid Solution". <i>Chemical Engineering Communications</i>, 202 (8), 993-999 (2015).</p>
<p>M. Foroughi-dahr, M. Golmohammadi, R. Pourjamshidiyan, M. Rajabi-hamaneh, S.J. Hashemi, "On the Characteristics of Thin Layer Drying Models for Intermittent Drying of Rough Rice". <i>Chemical Engineering Communications</i>, 202 (8), 1024-1035 (2015).</p>
<p>M. Golmohammadi, M. Assar, M. Rajabi-Hamaneh, S.J. Hashemi, "Energy Efficiency</p>

Investigation of Intermittent Paddy Rice Dryer: Modeling and Experimental Study". *Food and Bioproducts Processing*, 94, 275–283 (2015).

M. Golmohammadi, M. Rajabi-Hamane, S.J. Hashemi, "Optimization of drying–tempering periods in a paddy rice dryer". *Drying Technology*, 30: 106-113 (2012).

Seminars and Conferences

M. Honarmand, J. Hafezi-bakhtiari, **M. Golmohammadi** "*Biosynthesis of NiO nanoparticles using aqueous extract of oak fruit*", The16th Iranian National Congress of Chemical Engineering, Amirkabir University of Technology, 2019.

M. Golmohammadi, M. Honarmand "*Green Synthesis of Zinc nanoparticles using jujube fruit extract and their application for organic dye removal*", The16th Iranian National Congress of Chemical Engineering, Amirkabir University of Technology, 2019.

M. Honarmand, **M. Golmohammadi** "*A basic and recyclable ionic liquid for the efficient synthesis of 1,8-dioxo-octahydroxanthenes*", 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

M. Honrmand, **M. Golmohammadi** "*Three-component synthesis of 4H-pryan derivatives in the presence of immobilized ionic liquid on silica gel*", 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

M. Golmohammadi, M. Honrmand "*Green Synthesis of Tin Oxide Nanoparticles using Narcissus Tazetta Leaf Extract*", 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

M. Honarmand, **M. Golmohammadi** "*Design and preparation of 1,2-ethanediammonium 3-hydroxypropane-1-sulfonate [(EDA)(HPS)] as a novel nano organocatalyst for three-component synthesis of 4H-pyrans*", 10th International Chemical Engineering Congress & Exhibition, University of Isfahan, 2018.

M. Golmohammadi, S.J. Ahmadi, "*Response surface study of supercritical water synthesis of cobalt oxide nanoparticles*", 10th International Chemical Engineering Congress & Exhibition, University of Isfahan, 2018.

مرتضی گل محمدی، " جذب سطحی متیلن بلو با استفاده از پوسته سبز بادام به‌عنوان یک جاذب طبیعی"، چهارمین کنفرانس ملی مهندسی مواد، مهندسی شیمی و ایمنی صنعتی، مجتمع آموزش عالی فنی و مهندسی اسفراین، ۱۸ و ۱۹ مهرماه ۱۳۹۷.

M. Golmohammadi, J. Towfighi, S.J. Ahmadi, M. Hosseinpour, "*Investigation of the effect of temperature on the conversion of metal hydroxy nitrates to metal oxide nano-powders in supercritical water*", Asian Nano Forum Conference, 8-11 March, Kish, 2015.

M. Golmohammadi, M. Hosseinpour , S.J. Ahmadi, A. Charkhi, " *Synthesis of pure TMA-montmorillonite nano-clay using supercritical water*", Asian Nano Forum Conference, Kish , Iran, 8-11 March **2015**.

M. Golmohammadi, M. Assar, M. Rajabi-Hamane, S.J. Hashemi, "*Energy efficiency investigation of an intermittent paddy rice dryer: modeling and experimental study*", 18th International Drying Symposium (IDS 2012), Xiamen, China, 11-15 November **2012**.

M. Assar, **M. Golmohammadi**, M. Rajabi-Hamane, S.J. Hashemi, "*Heat and mass transfer characteristics of intermittent paddy rice drying; experimental and theoretical study*" 18th International Drying Symposium (IDS 2012), Xiamen, China, 11-15 November **2012**.

M. Golmohammadi, S.J. Hashemi, M. Rajabi-Hamane, A. Shojamoradi, M. Foroughi-dahr, "*INTERMITTENT DRYING KINETICS OF PADDY RICE: MODELING AND EXPERIMENTAL VALIDATION*" 1st Middle-East Drying Conference (MEDC2012), Mahshar, Iran, 19-20 February **2012**.

M. Golmohammadi, M. Rajabi-Hamane, S.J. Hashemi, "*OPTIMIZATION OF DRYING-TEMPERING PERIODS IN A PADDY RICE DRYER*", 17th International Drying Symposium (IDS 2010), Magdeburg, Germany, 3-6 October **2010**.

Research projects

Supercritical Water Destruction of Trichloroethylene Using Metal Oxide Nanocatalysts, Iran National Science Foundation (INSF), NO. 93027170, **2017**.

Reviewer in Journals

Food and Bioproduct Processing (ISSN: 0960-3085), Elsevier

Journal of the Taiwan Institute of Chemical Engineers (ISSN: 1876-1070), Elsevier

Chemical Engineering Communications (ISSN: 0098-6445), Taylor & Francis

Drying Technology (ISSN: 0098-6445), Taylor & Francis

Heat and Mass Transfer (ISSN: 1432-1181), Springer

Iranian Polymer Journal (ISSN: 1735-5265), Springer

Journal of Applied Research of Chemical -Polymer Engineering (ISSN: 2588-5324)

Journal of Advanced Materials and Technologies (ISSN: 2008-4277)

International Journal of Nano Dimension (ISSN: 2228-5059)

Iranian Journal of Chemistry and Chemical Engineering (ISSN: 1021-9986)