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❖ Education:

- B.S. in Mechanical Engineering, Ferdowsi University, Mashad, Iran 1994.
- M.S. in Mechanical Engineering, Ferdowsi University, Mashad, Iran 1999.
- Ph.D. in Mechanical Engineering, Ferdowsi University, Mashad, Iran 2008.

❖ Experience:

- Associate Prof., Shahrood University of Technology, Shahrood, Iran, 2014-present.
- Assistant Prof., Shahrood University of Technology, Shahrood, Iran, 2008-2014.
- Head of Maintenance in Water-Treatment & Oxygen Plants, Khorasan Steel Complex (KSC), Neishabour, Iran, 1999-2008.
- Assistant Manager, Ghataate Ahangari Khorasan (GAK), Mashad, Iran, 1997 (six months).

❖ **Technical Expertise:** TPM (Total Productive Maintenance) training course, DANIELI (Italy/Germany); Mobarakeh Steel Complex & Esfahan Steel Company, 1999-2000.

❖ Teaching Interest:

Fluid Mechanics, Heat Transfer, Applied Mathematics, Practical Courses.

❖ Research Interest:

Fluid Mechanics, Heat Transfer, Similarity Solution, Analytical Solutions, Approximate Methods, MEMS, Nano-Fluids.

Publications:

- ✚ **Jabari Moghadam, A., Baradaran Rahimi, A., “A Numerical Study of Flow and Heat Transfer Between Two Rotating Spheres With Time-Dependent Angular Velocities”**, *J HEAT TRANS-T ASME*, Vol. 130, July 2008.
- ✚ **Jabari Moghadam, A., Baradaran Rahimi, A., “A Numerical Study of Flow and Heat Transfer Between Two Rotating Vertically Eccentric Spheres With Time-Dependent Angular Velocities”**, *International Journal of Engineering (IJE)*, Vol. 21, Number 3, 2008.
- ✚ **Jabari Moghadam, A., Baradaran Rahimi, A., “A Numerical Study of Flow and Heat Transfer Between Two Concentric Rotating Spheres With Time-Dependent Angular Velocities”**, *Int. J. of Science & Tech., Scientia Iranica*, Vol. 16, Number 3, 2009.
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- ✚ **Mahian, O., Baradaran Rahimi, A., Jabari Moghadam, A., “Effects of Suction and Blowing on Flow and Heat Transfer Between Two Rotating Spheres with Time Dependent Angular Velocities”**, *J HEAT TRANS-T ASME*, Vol. 133, July 2011.
- ✚ **Jabari Moghadam, A., “An Exact Solution of AC Electro-Kinetic-Driven Flow in a Circular Micro-Channel”**, *ELSEVIER, Eur. J. Mech. B/Fluids*, 34(2012) 91-96.
- ✚ **Jabari Moghadam, A., “Thermally-Developing Flow Induced by Electro-Osmosis in a Circular Micro-Channel”**, *SPRINGER, AJSE*, [published online: 05 September 2013] Volume 39, Issue 2 (2014), 1261-1270 (DOI: 10.1007/s13369-013-0717-8).
- ✚ **Jabari Moghadam, A., “Electrokinetic-Driven Flow and Heat Transfer of a Non-Newtonian Fluid in a Circular Microchannel”**, *J HEAT TRANS-T ASME*, Vol. 135, February 2013 (doi: 10.1115/1.4007542).
- ✚ **Mohammadiun, M., Mahian, O., Jabari Moghadam, A., Mohammadiun, H., “Laminar Flow of a Viscous Incompressible Fluid Between Two Eccentric**

- Rotating Spheres with Non-Uniform Transpiration**", *SPRINGER, AJSE*, [published online: 21 December 2012] 38:2831-2843, 2013 (DOI 10.1007/s13369-012-0478-9).
- ✚ **Jabari Moghadam, A.**, "Exact Solution of AC Electro-Osmotic Flow in a Microannulus", *J FLUID ENG-T ASME*, Vol. 135, September 2013 (doi: 10.1115/1.4024205).
- ✚ **Jabari Moghadam, A.**, Rahimi, A.B., "A Singular Perturbation Solution of Viscous Incompressible Fluid Flow Between Two Eccentric Rotating Cylinders", *SPRINGER, Arab. J. Math.*, [published online: 20 June 2013] (2014) 3:63-78 (DOI: 10.1007/s40065-013-0081-2).
- ✚ **Jabari Moghadam, A.**, "Effect of Periodic Excitation on Alternating Current Electroosmotic Flow in a Microannular Channel", *ELSEVIER, Eur. J. Mech. B/Fluids*, [published online: 04 May 2014] 48(2014) 1-12 (DOI: 10.1016/j.euromechflu.2014.03.015).
- ✚ **Jabari Moghadam, A.**, Farzane-Gord, M., Sajadi, M., Hoseyn-Zadeh, M. "Effects of CuO/water nanofluid on the efficiency of a flat-plate solar collector", *ELSEVIER, Exp. Therm. Fluid Sci.*, [published online: 24 June 2014] 58(2014) 9-14 (DOI: 10.1016/j.expthermflusci.2014.06.014).
- ✚ **Jabari Moghadam, A.**, "Thermal Characteristics of Time-Periodic Electroosmotic Flow in a Circular Microchannel", *SPRINGER, Heat Mass Transfer*, [published online: 12 February 2015] Vol. 51, Issue 10 (2015) pp. 1461-1473 (DOI: 10.1007/s00231-015-1513-7).
- ✚ **Jabari Moghadam, A.**, Hosseinzadeh, H., "Thermal Simulation of Solidification Process in Continuous Casting", *International Journal of Engineering (IJE)*, Vol. 28, No. 5, May 2015, 812-821 (DOI: 10.5829/idosi.ije.2015.28.05b.20).
- ✚ **Mohammadi, M.R., Jabari Moghadam, A.**, "Heat Transfer and Entropy Generation Analysis of Bingham Plastic Fluids in Circular Microchannels", *J. Thermal Sci. Eng. Appl.-T ASME*, Volume 7, December 2015, 041019 (DOI: 10.1115/1.4031425).
- ✚ **Ghadiri, M., Sardarabadi, M., Pasandideh-Fard, M., Jabari Moghadam, A.**, "Experimental Investigation of a PVT System Performance Using Nano Ferrofluids", *ELSEVIER, Energ. Convers. Manage.*, Vol. 103, October 2015, 468-476 (DOI: 10.1016/j.enconman.2015.06.077).

- ✚ **Jabari Moghadam, A., “Exact Solution of Electroviscous Flow and Heat Transfer in a Semi-Annular Microcapillary”,** *J HEAT TRANS-T ASME*, Vol. 138, January 2016, 011702 (DOI: 10.1115/1.4031084).
- ✚ Baou, M., Norouzi, M., **Jabari Moghadam, A.**, Numerical Investigation of Hydrodynamic and Thermal Falkner-Skan Boundary Layer of Viscoelastic Fluids, *Modares Mechanical Engineering*, Vol. 16, No. 2, pp. 69-78, 2016 (in Persian).
- ✚ **Jabari Moghadam, A.**, Akbarzadeh, P., **“Time-Periodic Electroosmotic Flow of Non-Newtonian Fluids in Microchannels”,** *International Journal of Engineering (IJE)*, Vol. 29, No. 5, May 2016, 706-714 (DOI: 10.5829/idosi.ije.2016.29.05b.00).
- ✚ Farzaneh-Gord, M., Ghezelbash, R., Sadi, M., **Jabari Moghadam, A.**, **“Integration of vertical ground-coupled heat pump into a conventional natural gas pressure drop station: Energy, economic and CO2 emission assessment”,** *ELSEVIER, Energy*, Vol. 112, 2016, 998-1014 (DOI: 10.1016/j.energy.2016.06.100).
- ✚ **Jabari Moghadam, A.**, **“Two-Fluid Electrokinetic Flow in a Circular Microchannel”,** *International Journal of Engineering (IJE)*, Vol. 29, No. 10, October 2016, 1469-1477 (DOI:10.5829/idosi.ije.2016.29.10a.18).
- ✚ Sarabandi, A.H., **Jabari Moghadam, A.**, **“Thermal Analysis of Power-Law Fluid Flow in a Circular Microchannel”,** *J HEAT TRANS-T ASME*, Vol. 139, March 2017, 032401 (DOI: 10.1115/1.4035040).
- ✚ Sarabandi, A.H., **Jabari Moghadam, A.**, **“Slip Velocity in Flow and Heat Transfer of Non-Newtonian Fluids in Microchannels”,** *International Journal of Engineering (IJE)*, Vol. 30, No. 7, July 2017, 1054-1065 (DOI: 10.5829/idosi.ije.2017.30.07a.15).
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- ✚ Kelidari, M., **Jabari Moghadam, A.**, “**Effects of Fe₃O₄/water nanofluid on the Efficiency of a Curved Pipe**”, *J THERM SCI ENG APPL-T ASME*, Vol. 11, issue 4, August 2019, 041016 (DOI: 10.1115/1.4044184).
- ✚ Kelidari, M., **Jabari Moghadam, A.**, Moradi Dalvand, H., “**Experimental Investigation of a U-Tube Performance Using Nanofluids under the Effect of Magnetic Fields**”, *J HEAT TRANS-T ASME*, Vol. 142, issue 2, February 2020, 022501 (DOI: 10.1115/1.4045490).
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- ✚ Deymi-Dashtebayaz, M., Akhoundi, M., Ebrahimi-Moghadam, A., Arabkoohsar, A., **Jabari Moghadam, A.**, Farzaneh-Gord, M., “**Thermo-hydraulic analysis and optimization of CuO/water nanofluid inside helically dimpled heat exchangers**”, *SPRINGER, J. Therm. Anal. Calorim. (JTAC)*, [published online: 5 February 2020], (DOI: 10.1007/s10973-020-09398-0).
- ✚ Ebrahimi-Moghadam, A., **Jabari Moghadam, A.**, Farzaneh-Gord, M., “**Comprehensive Techno-Economic and Environmental Sensitivity Analysis and Multi-Objective Optimization of a Novel Heat and Power System for Natural Gas City Gate Stations**”, *ELSEVIER, J. Clean. Prod.*, [published online: 30 March 2020], Vol. 262, July 2020, 121261 (DOI: [10.1016/j.jclepro.2020.121261](https://doi.org/10.1016/j.jclepro.2020.121261)).

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- ✚ **Jabari Moghadam, A., “Transient Thermal Analysis in Nanofluid Suspensions”,** *ELSEVIER, Int. Commun. Heat Mass Transf.*, [published online: 21 September 2020] Vol. 118, November 2020, 104887 (DOI: 10.1016/j.icheatmasstransfer.2020.104887). <https://authors.elsevier.com/a/1bnHB2dAU8iguO>
- ✚ **Jabari Moghadam, A., “Heat Transfer in Electrokinetic Micro-Pumps under the Influence of Various Oscillatory Excitations”,** *ELSEVIER, Eur. J. Mech. B/Fluids*, [published online: 18 September 2020] Vol. 85, Jan./Feb. 2021, pp. 158-168 (DOI: 10.1016/j.euromechflu.2020.09.012). <https://authors.elsevier.com/a/1bnNq3YtFPjsAp>
- ✚ Ebrahimi-Moghadam, A. Farzaneh-Gord, M., **Jabari Moghadam, A.,** Abu-Hamdeh, N.H., Lasemi, M.A., Arabkoohsar, A., Alimoradi, A., **“Design and multi-criteria optimisation of a trigeneration district energy system based on gas turbine, Kalina, and ejector cycles: Exergoeconomic and exergoenvironmental evaluation”,** *ELSEVIER, Energ. Convers. Manage.*, Vol. 227, Jan. 2021, p. 113581 (DOI: 10.1016/j.enconman.2020.113581).
- ✚ Javidan, M., **Jabari Moghadam, A., “Experimental Investigation on Thermal Management of a Photovoltaic Module Using Water-Jet Impingement Cooling”,** *ELSEVIER, Energ. Convers. Manage.*, Vol. 228, Jan. 2021, p. 113686 (DOI: 10.1016/j.enconman.2020.113686).
- ✚ Ebrahimi-Moghadam, A., **Jabari Moghadam, A.,** Farzaneh-Gord, M., Arabkoohsar, A., **“Performance Investigation of a Novel Hybrid System for**

- Simultaneous Production of Cooling, Heating, and Electricity**", ELSEVIER, S.E.T.A., Vol. 43, Feb. 2021, p.100931 (DOI: 10.1016/j.seta.2020.100931).
- ✚ Golinejad, M., **Jabari Moghadam, A.**, Phan, T.P., Miri, A., Mousavi Shaegh, A., **"Design and Application of Ion Concentration Polarization for Preconcentrating Charged Analytes"**, AIP, Physics of Fluids, [published online: 4 May 2021], **33**, issue 5, 2021, 051301 (DOI: 10.1063/5.0038914).
- ✚ Ghorbani, S., **Jabari Moghadam, A.**, Emamian, A., Ellahi, R., Sait, S.M., **"Numerical Simulation of the Electroosmotic Flow of the Carreau-Yasuda Model in the Rectangular Microchannel "**, International Journal of Numerical Methods for Heat and Fluid Flow (INT J NUMER METHOD H), [published online: 27 Sep. 2021], Vol. **32**, No 7, pp. 2240-2259 (<https://doi.org/10.1108/HFF-07-2021-0495>).
- ✚ Heydari, F.Z., Maleki, A., **Jabari Moghadam, A.**, Haghighat, S., **"Emplacement of the Photovoltaic Water Pumping System in Remote Areas by a Multi-Criteria Decision-Making Method: A Case Study"**, Frontiers in Energy Research, [published online: 13 December 2021], Vol. **9**, Dec. 2021, Article 770981 (DOI: 10.3389/fenrg.2021.770981).
- ✚ Golinejad, M., **Jabari Moghadam, A.**, Mousavi Shaegh, A., **"Analysis of Preconcentration Patterns in Microfluidic Ion Concentration Polarization Devices"**, AIP, Physics of Fluids, [published online: 25 January 2022], **34**, 2022, 012014 (DOI: 10.1063/5.0078925).
- ✚ Okati, V., **Jabari Moghadam, A.**, Farzaneh-Gord, M., Moein-Jahromi, M., **"Thermo-Economical and Environmental Analyses of a Direct Contact Membrane Distillation (DCMD) Performance"**, ELSEVIER, J. Clean. Prod., [published online: 25 January 2022], Vol. 340, March 2022, 130613 (DOI: 10.1016/j.jclepro.2022.130613)
- ✚ Tavallaei, M., Farzaneh-Gord, M., **Jabari Moghadam, A.**, **"4E Analysis and Thermodynamic Optimization of Flaring Associated Gas Recovery Using External Firing Recuperative Gas Turbine"**, ELSEVIER, Energ. Convers. Manage., Vol. 266, Aug. 2022, p. 115836 (DOI: [10.1016/j.enconman.2022.115836](https://doi.org/10.1016/j.enconman.2022.115836)).

- ✚ Javidan, M., Jabari Moghadam, A., “Effective Cooling of a Photovoltaic Module Using Jet-Impingement Array and Nanofluid Coolant”, ELSEVIER, Int. Commun. Heat Mass Transf., Vol. 137, Oct. 2022, p. 106310 (DOI: [10.1016/j.icheatmasstransfer.2022.106310](https://doi.org/10.1016/j.icheatmasstransfer.2022.106310)).



Books translated to Persian:

- **Engineering Heat Transfer**, by: William Janna.
Publisher: Ferdowsi Univ. of Mashad, 2003.

- **Advanced Engineering Mathematics**, by: Alan Jeffrey.
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Books written in Persian:

- سیستم‌های انتقال آب (چاپ اول ۱۴۰۰) – دانشگاه دریاوردی و علوم دریایی چابهار؛ انتشارات

آوای قلم

Conference Papers:

- Mahian, O., Rahimi, A.B., Kianifar, A., Jabari Moghadam, A., "Unsteady Flow Between Two Concentric Rotating Spheres Along With Uniform Transpiration", WASET, Feb. 2010, Malaysia.
- Mahian, O., Rahimi, A.B., Kianifar, A., Jabari Moghadam, A., "Effects of Suction and Blowing on Heat Transfer Between Two Eccentric Rotating Spheres with Sinusoidal Angular Velocities", WASET, Feb. 2010, Malaysia.
- Bao, M., Norouzi, M., Jabari Moghadam, A., "Boundary Layer and Heat Transfer Numerical Analysis for the Falkner-Skan Wedge Flow", Third National Conference of Process Engineering, Jan. 2015, Iran.
- Ebrahimi-Moghadam, A., Mohseni-Gharyehsafa, B., Jabari Moghadam, A., Farzaneh-Gord, M., Bijarzahi, Y., Okati, V., "Prediction of Natural Gas Z-Factor by Using ANN Method", 11th International Conference on Advances in Engineering and Technology (AET-18), Turkey.

مقاله های فارسی

- مریم باثو، محمود نوروزی، علی جباری مقدم؛ بررسی عددی لایه مرزی هیدرودینامیکی و حرارتی فالکنر- اسکن سیالات ویسکوالاستیک، مجله مهندسی مکانیک مدرس، اردیبهشت ۱۳۹۵، دوره ۱۶، شماره ۲، صص ۶۹-۷۸.
- محمود فرزانه گرد، سیداحسان آل نبی، علی جباری مقدم، سیدمحمدتقی علوی؛ جداسازی دوده از جریان گاز طبیعی در ایستگاه تقلیل فشار با استفاده از سیکلون، کنفرانس ملی و اولین کنفرانس بین المللی پژوهش های کاربردی در مهندسی برق، مکانیک و مکاترونیک، ۲۸ بهمن ۱۳۹۴.
- محمود فرزانه گرد، علی جباری مقدم، سامان پرویزی، مجید هاشمیان، مهرباب عقیلی بهرامی؛ طراحی و بررسی عددی جریان- سنج جرمی حرارتی لوله موئین به عنوان کنتور گاز خانگی، مجله علوم کاربردی و محاسباتی در مکانیک، سال بیست و نهم، شماره ۱، پاییز و زمستان ۱۳۹۶، پیاپی ۱۷ [DOI: 10.22067/fum-mech.v29i1.54266](https://doi.org/10.22067/fum-mech.v29i1.54266)
- امیر ابراهیمی مقدم، علی جباری مقدم، محمود فرزانه گرد؛ تحلیل ترمودینامیکی و زیست محیطی یک سیستم تولید همزمان قدرت و گرمایش بر مبنای بازیافت حرارت از سیکل توربین گاز؛ هجدهمین کنفرانس دینامیک شاره ها، ۵ و ۶ شهریور ۹۸، دانشگاه فردوسی مشهد.
- مجید قلی نژاد، علی جباری مقدم، سیدعلی موسوی شائق؛ بررسی عددی اثر پارامترهای موثر بر تجمع ملکول های باردار درون میکروکانال به وسیله قطبیت غلظت یونی؛ ۵ و ۶ شهریور ۹۸، دانشگاه فردوسی مشهد.
- مجید قلی نژاد، علی جباری مقدم، سیدعلی موسوی شائق؛ شبیه سازی عددی استفاده از پدیده قطبیت غلظت یونی جهت تجمع مولکول باردار درون میکروکانال؛ بیست و هفتمین همایش سالانه بین المللی مهندسی مکانیک ایران (ISME 2019)، ۱۰ تا ۱۲ اردیبهشت ۹۸، تهران.