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Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenured	Full Time	35

Papers in Conferences

1. Ghanbarali Sheikhzadeh, Mojtaba Sepehrnia, Sahar Mohammadi. Effect of narrow enclosure deviation angle on entropy generation of Ag-water nanofluid turbulent natural convection. 26th Annual International Conference of Iranian Society of Mechanical Engineers - Semnan University. 24-26 April, 2018.
2. Ghanbarali Sheikhzadeh, Ali Marzban, Majid zarringhalam, Gholamreza Ahmadi Sheikh Shabani, Omid Ali Akbari. Laboratory examination of heat transfer parameters Copper Oxide/water nanofluid in double-tube heat exchanger. 3rd Iranian Conference on Heat and Mass Transfer-ICHMT2017. Babol Noshirvani University of Technology. 22-23 November, 2017.
3. GA Sheikhzadeh, Reza Dadsetani, Mohammad Reza Safaei. Exergoeconomic Optimization of Liquefying Cycle for Noble Gas Argon. 3rd Iranian Conference on Heat and Mass Transfer-ICHMT2017. Babol Noshirvani University of Technology. 22-23 November, 2017.
4. F. Nejati, G.A. Sheikhzadeh, F. pourfattah, Wings shape effect on behavior of hybrid nanofluid in a vortex generator channel, 3rd Iranian Conference on Heat and Mass Transfer-ICHMT2017, Babol Noshirvani University of Technology, 22-23 November, 2017.
5. G. A. Sheikhzadeh, A. Gheibi. Large eddy simulation of turbulent flow in a three-way section using lattice Boltzmann method. First International Conference in New Research on Mechanic, Mechatronic & Biomechanics. AmirKabir University of Technology Tehran, May 26 2016.
6. علی بلال، قنبر علی شیخ زاده، ابوالفضل فتاحی، مروری بر سامانه های فوتوولتاییک حرارتی و بررسی راهکارهای بهبود . عملکرد آن، سی و دومین همایش سالانه بین المللی انجمن مهندسان مکانیک ایران، ۱ - اراک، ۲۰۲۴، ۵۷ - ۵۷.
7. محمدرضا بابائی، قنبر علی شیخ زاده، محمد عیدیان، بررسی عددی تاثیر هندسه جریان در سامانه خنک کاری باتری لیتیوم-یونی خودروهای برقی، سی و دومین همایش سالانه بین المللی انجمن مهندسان مکانیک ایران، ۱ - اراک، ۲۰۲۴، ۵۷ - ۵۷.
8. قنبر علی شیخ زاده، سیدمصطفی قندی نامقی، حسین رحیمی آسیابریکی، مطالعه عددی میدان جریان و انتقال حرارت در یک مبدل حرارتی لوله و پره بیضوی با آرایش متناوب لوله ها، سی و دومین همایش سالانه بین المللی انجمن مهندسان مکانیک ایران، ۱ - اراک، ۲۰۲۴، ۵۷ - ۵۷.
9. مهدی سپهری، قنبر علی شیخ زاده، مصطفی محبوبی، مطالعه عددی افزودن همزمان میکرودرنده و دیواره های موجی

- شکل به مینی کانال چاه حرارتی ماریچی- حلزونی، سی و دومین همایش سالانه بین المللی انجمن مهندسان مکانیک ایران، ۱- اراک، ۲۰۲۴، ۵۵-۵۷ .
10. محمدرضا بابائی، قنبر علی شیخ زاده، محمد عیدیان، بررسی عددی تاثیر هندسه جریان در سامانه خنک‌کاری باتری لیتیوم-یونی خودروهای برقی، سی و دومین همایش سالانه بین المللی انجمن مهندسان مکانیک ایران، ۱- اراک، ۲۰۲۴، ۵۵-۵۷ .
11. احمد بیت الهی توکلی، قنبر علی شیخ زاده، ابوالفضل حاجی‌زاده اقدم، مطالعه و بررسی انواع روش‌های مدرن شیرین‌سازی آب شور، مزایا و معایب، فرصت‌ها و چالش‌ها، چهارمین کنفرانس ملی داده‌کاوی در علوم زمین، ۱- اراک، ۲۰۲۴، ۱۹-۲۰ .
12. مهدی اسماعیلی، قنبر علی شیخ زاده، محمدرضا حاتمیان، تاثیر استفاده از بیوگاز بر مسکن معیشت محور و اقتصاد روستا در اقلیم سرد و کوهستانی، اولین همایش ملی ظرفیت روستا در اقتصاد ملی، ۱- تهران، ۲۰۲۴، ۱۶-۱۸ .
13. سمیه جلالی چالشتری، قنبر علی شیخ زاده، شبیه‌سازی عددی نرخ کاهش دما بوسیله نانوذرات اکسید نقره در باتری لیتیوم-یون کیسه ای، بیستمین کنفرانس دینامیک شاره‌ها، ۱- سمنان، ۲۰۲۳، ۱۱-۱۸ .
14. امید مجنونی، مهران شکیبائی، قنبر علی شیخ زاده، بررسی تجربی و مقایسه آلاینده‌های بنزین و گاز طبیعی در یک موتور احتراق داخلی، بیستمین کنفرانس دینامیک شاره‌ها، ۱- سمنان، ۲۰۲۳، ۱۱-۱۸ .
15. Mostafa Mahboobi, Heat Transfer Enhancement in Serpentine Mini-Channel Heat Sink by Wavy Side Walls and CuO Nanofluid, 20th Fluid Dynamics Conference, 1 - 08 11 2023, سمنان .

Papers in Journals

1. Faezeh Nejati Barzoki, Ghanbar Ali Sheikhzadeh, Morteza Khoshvaght Aliabadi, Ali Akbar Abbasian Arani, ASSESSMENT OF VORTEX GENERATOR SHAPES FOR ENHANCING THERMOHYDRAULIC PERFORMANCE OF FLUID FLOW IN A CHANNEL EQUIPPED WITH PERFORATED CHERVON PLATE-FIN, International Journal of Numerical Methods for Heat & Fluid Flow, January 2021.
2. Masomeh Ebrahim Qomi Ghanbar Ali Sheikhzadeh Abolfazl Fattahi, Heat transfer enhancement in a microchannel using a pulsating MHD hybrid nanofluid flow, Energy Sources, Nov 2020.
3. Reza Dadsetani Ghanbar Ali Sheikhzadeh Mohammad Reza Safaei Arturo S. Leon Marjan Goodarzi, Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids, Symmetry, ۹۳۱ شماره صفحات ۶، شماره ۱۲، June ۲۰۲۰.
4. Seyed Mohammad Mousavi, Omid Ali Akbari, Ghanbarali Sheikhzadeh, Ali Marzban, Davood Toghraie and Ali J. Chamkha, Two-phase modeling of nanofluid forced convection in different arrangements of elliptical tube banks, International Journal of Numerical Methods for Heat and Fluid Flow, شماره ۳۰، مجلد ۱۹۶۶، ۱۹-۱۹۳۷، June ۲۰۱۹، شماره ۴، صفحات ۱۹۶۶-۱۹۳۷.
5. Reza Dadsetani, Ghanbar Ali Sheikhzadeh, Mohammad Reza Hajmohammadi, Mohammad Reza Safaei, Introduce a novel configuration of microchannel and high-conductivity inserts for cooling of disc-shaped electronic components, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 30, No. 6, pp. 2845-2859, 03 March 2019.
6. A. Sobhani Nasab H. Pourmohamadian M. Rahimi, & Nasrabadi G. A. Sheikhzadeh H. Basirat Tabrizi, Evaluation of the thermal properties of SrCO₃-microencapsulated palmitic acid composites as thermal energy storage materials, Journal of Thermal Analysis and Calorimetry, No. 140, pp. 2123-2130, November 2019.
7. M. Ashoori, G. A. Sheikhzadeh, S. Sadripour, The effects of using ceiling fans on human thermal comfort in a three-dimensional room with centralized heating including an occupant, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 29, No. 10, pp. 3976-3993, 7 October 2019.
8. Alireza Aghaei, Hossein Khorasanizadeh, and Ghanbar Ali Sheikhzadeh, A numerical study of the effect of the magnetic field on turbulent fluid flow, heat transfer and entropy generation of hybrid nanofluid in a trapezoidal enclosure, THE EUROPEAN PHYSICAL JOURNAL PLUS, 28 June 2019.
9. Ali Marzban, Ghanbar Ali Sheikhzadeh, Davood Toghraie, Laminar flow and heat transfer of water/NDG nanofluid on tube banks with rhombic cross section with different longitudinal arrangements, Journal of Thermal Analysis and Calorimetry, September 2019.
10. H. Pourmohamadian M. Rahimi Nasrabadi A. Sobhani Nasab G. A. Sheikhzadeh H. Basirat

- Tabrizi, Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO_3 Shell as Thermal Energy Storage Materials, *Chemistry Select*, Vol. 4, No. 21, pp. 6501-6505, June 2019.
11. Behrouz Mozafari, Ali Akbar Abbasian Arani, Ghanbar Ali Sheikhzadeh, Mahmoud Salimi, Brownian models effect on turbulent fluid flow and heat transfer and entropy generation of water/boehmite alumina nanofluid inside enclosure, *International Journal of Numerical Methods for Heat and Fluid Flow*, June 2019.
 12. Reza Dadsetani, Ghanbar Ali Sheikhzadeh, Abdulwahab A. Alnaqi, Reza Amirioon, Exergoeconomic optimization of liquefying cycle for noble gas argon, *Heat and Mass Transfer*, Vol. 55, No. 7, pp. 1995–2007, July 2019.
 13. Ghanbar Ali Sheikhzadeh, Faezeh Nejati Barzoki, Ali Akbar Abbasian Arani, Farzad Pourfattah, Wings shape effect on behavior of hybrid nanofluid inside a channel having vortex generator, *Heat and Mass Transfer*, Vol. 55, No. 7, pp. 1969–1983, July 2019.
 14. Mojtaba Sepehrnia, Ghanbar Ali Sheikhzadeh, Golnoush Abaei, Mahdi Motamedian, Study of flow field, heat transfer, and entropy generation of nanofluid turbulent natural convection in an enclosure utilizing the computational fluid dynamics-artificial neural network hybrid method, *Heat Transfer - Asian Research*, Vol. 48, No. 4, pp. 1151-1179, January 2019.
 15. Ghanbar Ali Sheikhzadeh, Farhad Monfaredi, Ali Reza Aghaei, Soroush Sadripour, Mohammad Adibi, Numerical analysis of thermal-hydraulic properties of turbulent aerosol-carbon black nanofluid flow in corrugated solar collectors with double application, *Journal of Transport Phenomena in Nano and Micro Scales (TPNMS)*, Vol. 7, No. 1, pp. 37-52, Winter and Spring 2019.
 16. Pourmohamadian Hossein, Sheikhzadeh Ghanbar Ali, Aghaei Alireza, Ehteram Hamidreza, Adibi Mohammad, Investigating the effect of Brownian motion models on heat transfer and entropy generation in nanofluid forced convection, *THERMAL SCIENCE*, Vol. 23, No. 2, pp. 485-496, February 2019.
 17. Ghanbar Ali Sheikhzadeh, Mohammad pourjafargholi, Reza maddahian. Numerical study of the effect of the Hall phenomenon on Supersonic γ D flow in a MHD generator. *Amirkabir Journal of Mechanical Engineering*. Accepted Manuscript, Available Online from ۳۰ December ۲۰۱۸. (in Farsi with English summary).
 18. S. M. Naghavi, G. A. Sheikhzadeh. A new curved boundary condition in stationary/moving boundaries for the lattice Boltzmann method. *Computational Methods in Engineering*. Accepted.
 19. Majid dastmalchi; Ali Arefmanesh; Ghanbar Ali Sheikhzadeh, Experimental study of fluid flow and heat transfer of Al_2O_3 -water nanofluid in helically coiled micro-finned tubes, *Amirkabir Journal of Mechanical Engineering*, Available Online from 29 May 2018, In Farsi with English abstract.
 20. Ghanbar Ali Sheikhzadeh, Alireza Aghaei, Samereh soleimani, Effect of nanoparticle shape on natural convection heat transfer in a square cavity with partitions using water- SiO_2 nanofluid, *Transport Phenomena in Nano and Micro Scales (TPNMS)*, Vol. 6, No. 1, pp. 27-38, Winter and Spring 2018.
 21. Ghanbar. Ali. Sheikhzadeh, Mahdi. Mollamahdi, Mahmoud. Abbaszadeh, Flow field and heat transfer of Ag-MgO/water micropolar hybrid nanofluid in a permeable channel, *Transport Phenomena in Nano and Micro Scales (TPNMS)*, Vol. 6, No. 1, pp. 13-26, Winter and Spring 2018.
 22. Mohammad Parsaiemehr, Farzad Pourfattah, Omid Ali Akbari, Davood Toghraie, Ghanbarali Sheikhzadeh, *Physica E: Low-dimensional Systems and Nanostructures*, *Physica E: Low-dimensional Systems and Nanostructures*, Vol. 96, pp. 73-84, February 2018.
 23. M. H. Bahmani, G. A. Sheikhzadeh, M Zarringalam. O. Ali Akbari, A. AAA Alrashed, G. Ahmadi Sheikh Shabani, M Goodarzi Sheikh Shabani Marjan Goodarzi, Investigation of turbulent heat transfer and nanofluid flow in a double pipe heat exchanger, *Advanced Powder Technology*, Vol. 29, No. 2, pp. 273-282, February 2018.
 24. Mahdi Mollamahdi, Mahmoud Abbaszadeh, Ghanbar Ali Sheikhzadeh, Analytical study of Al_2O_3 -Cu/water micropolar hybrid nanofluid in a porous channel with expanding/contracting walls in the presence of magnetic field, *Scientia Iranica*, Vol. 25, No. 1, pp. 208-220, January and February 2018,.
 25. Hossein Pourmohamadian, Mehdi Rahimi ,& Nasrabadi, Ghanbar Ali Sheikhzadeh, Hasan Basirat

- Tabrizi, Preparation of SrTiO₃-microencapsulated palmitic acid by means of a sol-gel approach as thermal energy storage materials, *Journal of Materials Science: Materials in Electronics*, Vol. 29, No. 1, pp. 794-800, January 2018.
26. Alireza Aghaei, Hossein Khorasanizadeh, Ghanbar Ali Sheikhzadeh, Measurement of the dynamic viscosity of hybrid engine oil-Cu-MWCNT nanofluid, development of a practical viscosity correlation and utilizing the artificial neural network, *Heat and Mass Transfer*, Vol. 54, No. 1, pp. 151-161, January 2018.
27. M. Dastmalchi, A. Arefmanesh, G.A. Sheikhzadeh, Numerical investigation of heat transfer and pressure drop of heat transfer oil in smooth and micro-finned tubes, *International Journal of Thermal Sciences*, Vol. 121, pp. 294-304, November 2017.
28. Farzad Pourfattah, Mahdi Motamedian, Ghanbar Ali Sheikhzadeh, Davood Toghraie, Omid Ali Akbari, The numerical investigation of angle of attack of inclined rectangular rib on the turbulent heat transfer of Water-Al₂O₃ nanofluid in a tube, *International Journal of Mechanical Sciences*, Vol. 131, pp. 1106-1116, October 2017.
29. Farzanegan, A.; Khorasanizadeh, N.; Sheikhzadeh, G.A.; Khorasanizadeh, H., Laboratory and CFD investigations of the two-phase flow behavior in flotation columns equipped with vertical baffle (Article), *International Journal of Mineral Processing*, Vol. 166, pp. 79-88, 10 September 2017.
30. Hamid Teimouri Ghanbar Ali Sheikhzadeh Masoud Afrand Mohammad Mahdi Fakhari, Mixed convection in a rotating eccentric annulus containing nanofluid using bi-orthogonal grid types: A finite volume simulation, *Journal of Molecular Liquids*, Vol. 227, pp. 114-126, February 2017.
31. Ali Akbar Azemati, Hossein Khorasanizadeh, Behzad Shirkavand Hadavand, Ghanbar Ali Sheikhzadeh, Study on Radiation Properties of Polyurethane/Nano Zirconium Oxide Nanocomposite Coatings, *Materials Science Forum*, Vol. 894, pp. 109-112, March 2017.
32. Soroush Sadripour, Mahdi Mollamahdi, Ghanbar Ali Sheikhzadeh, Mohammad Adibi, Providing thermal comfort and saving energy inside the buildings using a ceiling fan in heating systems, *J BRAZ SOC MECH SCI*, Vol. 39, No. 10, pp. 4219-4230, October 2017.
33. M. Dastmalchi, G.A. Sheikhzadeh, A. Arefmanesh, Optimization of micro-finned tubes in double pipe heat exchangers using particle swarm algorithm, *Applied Thermal Engineering*, Vol. 119, pp. 1-9, June 2017.
34. Mahdi Mollamahdi, Mahmoud Abbaszadeh, Ghanbar Ali Sheikhzadeh, Flow field and heat transfer in a channel with a permeable wall filled with Al₂O₃-Cu/water micropolar hybrid nanofluid, effects of chemical reaction and magnetic field, *Journal of Heat and Mass Transfer Research*, Vol. 3, No. 2, pp. 101-114, Summer and Autumn 2016.
35. G.A. Sheikhzadeh, Mohammad mahdi Fakhari, Hossein Khorasanizadeh, Experimental Investigation of Laminar Convection Heat Transfer of Al₂O₃-Ethylene Glycol-water Nanofluid as a Coolant in a Car Radiator, *Journal of Applied Fluid Mechanics*, Vol. 10, No. 1, pp. 209-219, January 2017.
36. G.A. Sheikhzadeh, A. Aghaei, H.R. Ehteram, M. Abbaszadeh, Analytical study of parameters affecting entropy generation of nanofluid turbulent flow in channel and micro-channel, *THERMAL SCIENCE*, Vol. 20, No. 6, pp. 2037-2050, January 2016, ISI.
37. H. R. Ehteram, A. A Abbasian Arani, G. A. Sheikhzadeh, A. Aghaei, A.R. Malihi, The effect of various conductivity and viscosity models considering Brownian motion on nanofluids mixed convection flow and heat transfer, *Journal of Transport Phenomena in Nano and Micro Scales (TPNMS)*, Vol. 4, No. 1, pp. 19-28, Winter and Spring 2016.
38. A. Aghaei, H. Khorasanizadeh, G.A. Sheikhzadeh, M. Abbaszadeh, Numerical study of magnetic field on mixed convection and entropy generation of nanofluid in a trapezoidal enclosure, *Journal of Magnetism and Magnetic Materials*, Vol. 403, No. 1, pp. 133-145, April 2016.
39. G. A. Sheikhzadeh, R. Dehghani Yazdeli, M. Soozanian Kashani, Fluid Dynamics in a Copper Converter: an Investigation on Mixing Phenomena in an Experimental Model, *International Journal of Engineering TRANSACTIONS A: Basics*, Vol. 29, No. 1, pp. 118-126, January 2016.
40. A. Aghaei G. A. Sheikhzadeh H. Ehteram M. Hajiahmadi, Numerical Investigation of Mixed

- Convection Fluid Flow, Heat Transfer and Entropy Generation in Triangular Enclosure Filled with a Nanofluid, *JOURNAL OF APPLIED FLUID MECHANICS (JAFM)*, Vol. 9, No. 1, pp. 147-156, January 2016.
41. M. Afrand, S. Farahat, A. Hossein Nezhad, G. A. Sheikhzadeh, F. Sarhaddi S. Wongwises, Multi-objective optimization of natural convection in a cylindrical annulus mold under magnetic field using particle swarm algorithm, *INT COMMUN HEAT MASS*, Vol. 60, pp. 13-20, January 2015.
 42. M. Dastmalchi, G. A. Sheikhzadeh, A. A. Abbasian, Double-diffusive natural convective in a porous square enclosure filled with nanofluid, *International Journal of Thermal Sciences*, Vol. 95, pp. 88-98, September 2015.
 43. A. Aghaei, G. A. Sheikhzadeh, H. R. Ehteram, M. Hajiahmadi, MHD Natural Convection and Entropy Generation of Variable Properties Nanofluid in a Triangular Enclosure, *Journal of Transport Phenomena in Nano and Micro Scales (TPNMS)*, Vol. 3, No. 1, pp. 37-45, Winter and Spring 2015.
 44. A. Aghaei, G. A. Sheikhzadeh, M. Dastmalchi, H. Forozande, Numerical investigation of turbulent forced-convective heat transfer of Al₂O₃-water nanofluid with variable properties in tube, *Ain Shams Engineering Journal*, Vol. 6, No. 2, pp. 577-585, June 2015.
 45. A. A. Abbasian Arani, G. A. Sheikhzadeh, A. Ghadirian Arani, Study of fluid flow and heat transfer of Al₂O₃-water as a non-newtonian nanofluid through lid-driven enclosure, *Transport Phenomena in Nano and Micro Scales*, Vol. 2, No. 2, pp. 118-131, Summer and Autumn 2014, ISC.
 46. G.A. Sheikhzadeh, M. Hajilou, H. Jafarian, Analysis of thermal performance of a car radiator employing nanofluid, *International Journal of Mechanical Engineering and Applications*, Vol. 2, No. 4, pp. 47-51, September 2014.
 47. M. Afrand, S. Farahat, A. Hossein Nezhad, G. A. Sheikhzadeh, F. Sarhaddi, 3-D numerical investigation of natural convection in a tilted cylindrical annulus containing molten potassium and controlling it using various magnetic fields, *International Journal of Applied Electromagnetics and Mechanics*, Vol. 46, No. 4, pp. 809-821, October 2014.
 48. G.A. Sheikhzadeh, A.A. Azemati, H. Khorasanizadeh, B. Shirkavand Hadavand, A. Saraei, The effect of mineral micro particle in coating on energy consumption reduction and thermal comfort in a room with a radiation cooling panel in different climates, *Energy and Buildings*, Vol. 82, pp. 644-650, October 2014.
 49. M. Afrand, S. Farahat, A. Hossein Nezhad, G. A. Sheikhzadeh, F. Sarhaddi, Numerical simulation of electrically conducting fluid flow and free convective heat transfer in an annulus on applying a magnetic field, *Heat Transfer Research*, Vol. 45, No. 8, pp. 749-766, January 2014.
 50. H. Khorasanizadeh, G.A. Sheikhzadeh, A.A. Azemati, B. Shirkavand Hadavand, Numerical study of air flow and heat transfer in a two-dimensional enclosure with floor heating, *Energy and Buildings*, Vol. 78, pp. 98-104, August 2014.
 51. A.R. Aghaei, G.A. Sheikhzadeh, H. Khorasanizadeh, H.R. Ehteram, Effect of Magnetic Field on Heat Transfer of Nanofluid with Variable Properties on the Inclined Enclosure, *Iranian Journal of Mechanical Engineering*, Vol. 15, No. 22, pp. 28-38, Winter and Spring 2014.
 52. G. A. Sheikhzadeh, M. Nikfar, Aspect ratio effects of an adiabatic rectangular obstacle on natural convection and entropy generation of a nanofluid in an enclosure, *Journal of Mechanical Science and Technology*, Vol. 27, No. 11, pp. 3495-3504, November 2013.
 53. G. A. Sheikhzadeh, Hajjaligol, R. Heydari, A. Fattahi and M. A. Mehrabian, Heat and mass transfer by natural convection around a hot body in a rectangular cavity, *Scientia Iranica*, Vol. 20, No. 5, pp. 1474-1484, October 2013.
 54. G.A. Sheikhzadeh, S.P. Ghaffari, M.M. Fakhari, The Effect of Variable Properties on Rayleigh-Benard Convection in an Enclosure Filled with Al₂O₃-EG-Water Nanofluid, *International Journal of Engineering*, Vol. 26, No. 12, pp. 1411-1422, December 2013.
 55. G.A. Sheikhzadeh, S. Mazrouei Sebdani, M. Mahmoodi, Elham Safaeizadeh and Sayed Ebrahim Hashemi, Effect of a Magnetic Field on Mixed Convection of a Nanofluid in a Square Cavity, *Journal of Magnetism*, Vol. 18, No. 3, pp. 321-325, September 2013.
 56. G. A. Sheikhzadeh, M. Dastmalchi, H. Khorasanizadeh, Effects of walls temperature variation on

- double diffusive natural convection of Al₂O₃-water nanofluid in an enclosure,HEAT MASS TRANSFER,Vol. 49,No. 12,pp. 1689-1700,December 2013.
57. A. A. Abbasian Arani, P. Shahmohamadi, G. A. Sheikhzadeh, M. A. Mehrabian,Convective Heat Transfer from a Heated Rotating Disk at Arbitrary Inclination Angle in Laminar Flow,International Journal of Engineering, Transactions B: Applications,Vol. 26,No. 8,pp. 865-874,August 2013.
58. G.A. Sheikhzadeh, S. Nazari,Numerical Study of Natural Convection in a Square Cavity Filled with a Porous Medium Saturated with Nanofluid,Transport Phenomena in Nano and Micro Scales (TPNMS),Vol. 1,No. 2,pp. 138-146,Summer and Autumn 2013.
59. G.A. Sheikhzadeh, H. Khorasanizadeh, S.P. Ghaffari,Mixed convection of variable properties Al₂O₃-EG-water nanofluid in a two-dimensional lid-driven enclosure,Transport Phenomena in Nano and Micro Scales (TPNMS),Vol. 1,No. 2,pp. 75-92,Summer and Autumn 2013.
60. G. A. Sheikhzadeh, H. Teimouri, M. Mahmoodi,Numerical study of mixed convection of nanofluid in a concentric annulus with rotating inner cylinder,Transport Phenomena in Nano and Micro Scales (TPNMS),,Vol. 1,No. 1,pp. 26-36,Winter and Spring 2013.
61. G. A. Sheikhzadeh, M. Dastmalchi, H. Khorasanizadeh,Effects of nanoparticles transport mechanisms on Al₂O₃-water nanofluid natural convection in a square enclosure,International Journal of Thermal Sciences,Vol. 66,pp. . 51-62,April 2013.
62. G. A. Sheikhzadeh, M. Ebrahim Qomi, N. Hajjaligol, A. Fattahi,Effect of Al₂O₃-water nanofluid on heat transfer and pressure drop in a three-dimensional microchannel,International Journal of Nano Dimension (IJND),Vol. 3,No. 4,pp. 281-288,Spring 2013.
63. G. A. Sheikhzadeh, M. Arbaban and M.A. Mehrabian,Laminar natural convection of Cu-water nanofluid in concentric annuli with radial fins attached to the inner cylinder,Heat and Mass Transfer,Vol. 49,No. 3,pp. 391-403,March 2013.
64. S. A. Hashemi, A. Fattahi, G. A. Sheikhzadeh,Presumed PDF modeling of reactive oxy-fuel flow in a model combustor,Energy Engineering & Management,Vol. 2,No. 4,pp. 48-57,Winter 1391.
65. S. A. Hashemi, A. Fattahi, G. A. Sheikhzadeh, N. Hajjaligol, M. Nikfar,Numerical investigation of NO_x reduction in a sudden-expansion combustor with inclined turbulent air jet,International Journal of Mechanical Science and Technology,Vol. 26,No. 11,pp. 3723-3731,November 2012.
66. S. A. Hashemi, A. Fattahi, G. A. Sheikhzadeh,The Effect of Air Preheating on a Sudden-Expansion Turbulent Diffusion Air-fuel Flame,Arabian Journal for Science and Engineering (B-Engineering),Vol. 38,No. 10,pp. 2801-2808,October 2012.
67. G. A. Sheikhzadeh, M. Nikfar, A. Fattahi,Numerical study of natural convection and entropy generation of Cu-water nanofluid around an obstacle in a cavity,Journal of Mechanical Science and Technology,Vol. 26,No. 10,pp. 3347-3356,October 2012.
68. S.A. Hashemi, A. Fattahi, G. A. Sheikhzadeh, and M.A. Mehrabian,The effect of oxidant flow rate on a coaxial oxy-fuel flame,Journal of Heat and Mass Transfer,Vol. 48,No. 9,pp. 1615-1626,September 2012.
69. G. A. Sheikhzadeh, A Fattahi, and M A Mehrabian,Numerical study of steady magneto-convection around an adiabatic body inside a square enclosure in low Prandtl numbers,HEAT MASS TRANSFER,Vol. 47,No. 1,pp. 27-34,January 2011.
70. G. A. Sheikhzadeh, M. Ebrahim ,& Qomi, N. Hajjaligol, A. Fattahi,Laminar Mixed Convection of Al₂O₃-Water Nanofluid in a Three-Dimensional Microchannel,Journal of Nano Structures,Vol. 2,No. 1,pp. 61-68,June 2012.
71. A. A. Abbasian, G. A. Sheikhzadeh, R. Heidary, N. Hajjaligol, M. Ebrahim ,& Qomi,Numerical Study of Mixed Convection in a Lid-Driven Enclosure with a Centered Body Using Nanofluid Variable Properties,Journal of NanoStructures,Vol. 2,No. 1,pp. 51-60,June 2012.
72. G.A. Sheikhzadeh, M. Ebrahim Qomi, N. Hajjaligol, A. Fattahi,Numerical study of mixed convection flows in a lid-driven enclosure filled with nanofluid using variable properties,Results in Physics,Vol. 2,pp. 5-13,February 2012.
73. N. Hajjaligol, G.A. Sheikhzadeh, M. Ebrahim Qomi, A. Fattahi,Laminar mixed convection of Cu-water

- nano-fluid in twosided lid-driven enclosures,Journal of NanoStructures,Vol. 1,No. 1,pp. 44-53,January 2012.
74. G. A. Sheikhzadeh, A. Arefmanesh, M.H. Kheirkhah, and R. Abdollahi,Numerical Study of Natural Convection in an Inclined Cavity with Partially Active Side Walls Filled with Cu-water Nanofluid,International Journal of Engineering: IJE Transactions B,Vol. 24,No. 3,pp. 279-292,October 2011.
75. S.A. Hashemi, A. Fattahi, G. A. Sheikhzadeh, and M.A. Mehrabian,Investigation of the effect of air turbulence intensity on NOx emission in non-premixed hydrogen and hydrogen-hydrocarbon composite fuel combustion,International journal of hydrogen energy,Vol. 36,No. 16,pp. 10159-10168,August 2011.
76. قنبرعلی شیخ زاده، وحید رحمانی و محمد رضا بابایی، تأثیر اعمال میدان مغناطیسی بر جابجائی آزاد گذرا در یک محفظه دوعدی با دیواره‌های جانبی دما ثابت، نشریه پژوهشی مهندسی مکانیک ایران، مجلد ۱۲، شماره ۱، شماره صفحات ۱۳۸۹-۴۵-۲۶.
77. G. A. Sheikhzadeh, A. Arefmanesh, and M. Mahmoodi, Numerical Study of Natural Convection in a Differentially-Heated Rectangular Cavity Filled with TiO₂-Water Nanofluid, Journal of Nano Research, Vol. 13, pp. 75-80, February 2011.
78. G.A.Sheikhzadeh, A.Arefmanesh, M.H.Kheirkhah, R.Abdollahi, Natural convection of Cu-water nanofluid in a cavity with partially active side walls, European Journal of Mechanics - B/Fluids, Vol. 30, No. 2, pp. 166-176, March-April 2011.
79. G. A. Sheikhzadeh, A Fattahi, and M A Mehrabian, Numerical study of steady magneto-convection around an adiabatic body inside a square enclosure in low Prandtl numbers, Heat and Mass Transfer, Vol. 47, No. 1, pp. 27-34, January 2011.
80. G. A. Sheikhzadeh, A Fattahi, M A Mehrabian, and M. Pirmohammadi, Effect of Geometry on Magneto-Convection in a Square Enclosure Filled with a Low Prandtl Number Fluid, Proc. IMechE Part E: J. Process Mechanical Engineering, Vol. 225, No. 1, pp. 53-61, February 2011.
81. G.A. Sheikhzadeh, M. R. Babaei, V. Rahmany, M A Mehrabian, The Effects of an Imposed Magnetic Field on Natural Convection in a Tilted Cavity with Partially Active Vertical Walls: Numerical Approach, IJE Transactions A, Vol. 23, No. 1, pp. 65-78, January 2010.
82. M. Pirmohammadi, M. Ghassemi, Gh. A. Sheikhzadeh, Effect of Magnetic Field on Transient Natural Convection Heat Transfer, IEEE TRANSACTIONS ON MAGNETICS, Vol. 45, No. 6, pp. 2788-2790, June 2009.
83. M. Pirmohammadi, M. Ghassemi, Gh. A. Sheikhzadeh, Effect of a Magnetic Field on Buoyancy-Driven Convection in Differentially Heated Square Cavity, IEEE TRANSACTIONS ON MAGNETICS, Vol. 45, No. 1, pp. 407-411, February 2009.
84. G A Sheikhzadeh and M A Mehrabian, Simulation of heap leaching process in a bed of porous and spherical or particles, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 17, No. 6, pp. 638-653, August 2007.
85. M A Mehrabian, G A Sheikhzadeh , M Khorramabadi, Application of numerical methods to study the effect of axial conduction in plates and flow channels on the performance of plate heat exchangers, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 16, No. 1, pp. 67-83, January 2006.
86. G A Sheikhzadeh , M A Mehrabian, S H Mansouri, and A Sarrafi, Computational modelling of unsaturated flow of liquid in heap leaching—using the results of column tests to calibrate the model, International Journal of Heat and Mass Transfer, Vol. 48, No. 2, pp. 279-292, January 2005.
87. G A Sheikhzadeh , M A Mehrabian, S H Mansouri, and A Sarrafi, Application of numerical methods to simulate the unsteady flow of lean liquor solution through a porous medium made up of porous ore particles, International Journal for Engineering Modelling, Vol. 16, pp. 29-39, January 2003.
88. امید مجنونى، قنبر علی شیخ زاده، مدل‌سازی و مطالعه انفجار مخازن ذخیره گاز در ایستگاه‌های سوخت گاز طبیعی (CNG) فشرده، نشریه مکانیک سازه‌ها و شاره‌ها، ISC، date-error.
89. در یک (LPG) امید مجنونى، قنبر علی شیخ زاده، مهران شکیبائی، تجزیه و تحلیل انفجار مخزن ذخیره گاز مایع (BLEVE) خودروی جاده ای بر اثر پدیده بخار مایع در حال جوش

ISC, ۰۶/۰۸/۱۴۰۳, ۴۲۱.

90. امید مجنونی, قنبر علی شیخ زاده, مدل سازی و مطالعه انفجار مخازن ذخیره گاز در ایستگاه های سوخت گاز طبیعی. ISC, نشریه مکانیک سازه ها و شاره ها, مجلد ۱۴, شماره صفحات ۳۰/۰۴/۱۴۰۳, ۴۵. (CNG) فشرده
91. حسین خراسانی زاده, قنبر علی شیخ زاده, امیررضا صابونچی, هادی بت شکن ارتی جانی, مطالعه و مقایسه اثر پانل های سرمایه شتابشی سقفی و دیواری بر توزیع دما, سرعت و انتقال حرارت در یک اتاق مسکونی, مهندسی مکانیک ISC, مدرس, مجلد ۱۳, شماره صفحات ۰۱/۰۸/۱۳۹۲, ۱۴۹.
92. M A Mehrabian, S H Mansouri, and G A Sheikhzadeh, The overall heat transfer characteristics of a double pipe heat exchanger: comparison of experimental data with predictions of standard correlations, International Journal of Engineering: IJE Transactions B, Vol. 15, No. 4, pp. 395-406, December 2002.
93. علی بلال, قنبر علی شیخ زاده, ابوالفضل فتاحی, Experimental Evaluation of the Hybrid-Bifacial Cooling of a PV Panel in Arid Weather Using Channel Heat Exchanger and Impingement Flow Nozzles, Journal of Heat and Mass Transfer Research, Vol. 11, pp. 195, 2024 11 01, SCOPUS, ISC.
94. رویا محمدعلی, مرتضی بیاره, قنبر علی شیخ زاده, Study of flow uniformity within convergent microchannels with a circular manifold, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 43, pp. 1, 2021 01 22, SCOPUS, ISC, JCR.
95. قنبر علی شیخ زاده, محمدرضا بابائی, وحید رحمانی, مظفرعلی مهربان, The Effects of an Imposed Magnetic Field on Natural Convection in a Tilted Cavity with Partially Active Vertical Walls: Numerical Approach, International Journal of Engineering-Transactions A: Basics, Vol. 23, pp. 65, 2020 01 01, ISC.
96. قنبر علی شیخ زاده, مجید نیک فر, Aspect ratio effects of an adiabatic rectangular obstacle on natural convection and entropy generation of a nanofluid in an enclosure, Journal of Mechanical Science and Technology, Vol. 27, pp. 3495, 2013 11 21, SCOPUS, JCR.
97. علی اکبر عباسیان آرانی, پویان شاه محمدی, قنبر علی شیخ زاده, مظفرعلی مهربان, Convective Heat Transfer from a Heated Rotating Disk at Arbitrary Inclination Angle in Laminar Flow, Journal of Engineering, Transactions B: Applications, Vol. 26, pp. 865, 2013 08 01, ISC.
98. علی اکبر عباسیان آرانی, پویان شاه محمدی, قنبر علی شیخ زاده, مظفرعلی مهربان, Convective Heat Transfer from a Heated Rotating Disk at Arbitrary Inclination Angle in Laminar Flow, Journal of Engineering, Transactions B: Applications, Vol. 26, pp. 865, 2013 08 01, ISC.
99. قنبر علی شیخ زاده, مجید دستمال چی, حسین خراسانی زاده, Effects of nanoparticles transport mechanisms on Al₂O₃-water nanofluid natural convection in a square enclosure, International Journal of Thermal Sciences, Vol. 66, pp. 51, 2013 01 02, SCOPUS, JCR.
100. قنبر علی شیخ زاده, مریم اربابان اصفهان, مظفرعلی مهربان, Laminar natural convection of Cu-water nanofluid in concentric annuli with radial fins attached to the inner cylinder, Heat and Mass Transfer, Vol. 49, pp. 391, 2012 11 06, SCOPUS, JCR.
101. محسن پیرمحمدی, مجید قاسمی, قنبر علی شیخ زاده, محسن حامدی, Turbulent Magneto-convection in a Differentially Heated Enclosure, Journal of Iron and Steel Research International, Vol. 19, pp. 586, 2012 10 15, SCOPUS.
102. سید عبدالمهدی هاشمی, ابوالفضل فتاحی, قنبر علی شیخ زاده, The effect of fuel turbulence intensity on NO_x formation in turbulent diffusion CH₄-air flames, Kuwait Journal of Science and Engineering, Section B: Engineering, Vol. 39, pp. 233, 2012 06 01, ISC, JCR.
103. قنبر علی شیخ زاده, مریم اربابان اصفهان, علی عارف منش, Effects of Radial Fins on the Laminar Natural Convection of a Nanofluid in Concentric Annuli, Computational Thermal Sciences, Vol. 4, pp. 151, 2012 05 15, SCOPUS.
104. قنبر علی شیخ زاده, علی عارف منش, محمدحسین خیرخواه راوندی, رضا عبدالهی طاهری, Numerical Study of Natural Convection in an Inclined Cavity with Partially Active Side Walls Filled with Cu-water Nanofluid, International Journal of Engineering, Vol. 24, pp. 279, 2011 10 01, ISC.
105. قنبر علی شیخ زاده, ابوالفضل فتاحی, مظفرعلی مهربان, محسن پیرمحمدی, Effect of Geometry on Magneto-Convection in a Square Enclosure Filled with a Low Prandtl Number Fluid, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Vol. 225, pp. 53, 2010 09 08, SCOPUS, JCR.

106. Effect of Magnetic Field on Transient Natural Convection Heat Transfer, IEEE TRANSACTIONS ON MAGNETICS, Vol. 45, pp. 2788, 2009 05 20, SCOPUS, JCR.
107. Effect of a Magnetic Field on Buoyancy-Driven Convection in Differentially Heated Square Cavity, IEEE TRANSACTIONS ON MAGNETICS, Vol. 45, pp. 407, 2009 01 30, SCOPUS, JCR.
108. محمدصادق عسکریان, قنبر علی شیخ زاده, علیرضا آقایی, شبیه سازی عددی مبدل حرارتی زمین گرمایی مجهز به SC. توربولاتور حاوی نانوسیال هیبریدی دو فاز, نشریه علمی مهندسی و مدیریت انرژی, 00 00 0000.