

## Curriculum Vitae



### RENSEIGNEMENTS PERSONNELS

**Nom et prénom** : KHEZZAR Lyes

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### EDUCATION

**1988** Equivalence du Doctorat d'Etat Algerien en Genie Mecanique  
**1983-1986** **PhD**, Mecanique des Fluides, Imperial College London, UK  
**1983-1986** **DIC**, Genie Mecanique, Imperial College London, UK  
**1982-1983** **MSc**, Thermodynamique et Meca. des Fluides, (UMIST) Univ. of Manchester, UK  
**1978-1982** **Bachelor Eng.** en Genie Mecanique, 1<sup>st</sup> Class honours, University of Bradford, UK  
**Juin 1978** **Baccalaureat Technique Mathematique**, Mention Tres Bien, Lyce Technique Khaznadar de Constantine

### ASSOCIATION PROFESSIONNELLE

Fellow of the Institution of Mechanical Engineers UK, Chartered Engineer CEng.

### AXES DE RECHERCHE

CFD dans des écoulements avec ou sans transfert de chaleur. Ecoulements di-phasiques.

### PUBLICATIONS

1. A Filali, **L Khezzar**, H Semmari & O Matar (2021) Application of Artificial Neural Network for Mixed Convection in a Square Lid-driven Cavity with Double Vertical or Horizontal Oriented Rectangular Blocks, *International Communications in Heat and Mass Transfer*, 129, 105644.
2. M Meribout, S Mekid, N Kharoua **L Khezzar** (2021) Online Monitoring of Structural Materials Integrity in Process Industry for I4.0: A Focus on Material Loss through Erosion and Corrosion Sensing", *Measurement*, 109110
3. J Song, N Kharoua, **L Khezzar**, M Alshehhi (2021) RANS calculations of 3D swirling flow in a short pipe, *Fluid Dynamics and Material Processing*, vol 17, n 2, 455-470

4. N Kharoua, **L Khezzar**, Z Nemouchi (2020) LES Study of Contrasting Behaviour of Plane Impinging Jets for Heating and Cooling Applications, *International Communications in Heat and Mass Transfer* 118, 104833
5. M Meribout & **L Khezzar**, Azzi and Ghendour (2020) Leak detection systems in oil and gas fields: Present and future projects, *Flow Measurement and Instrumentation*, 101772
6. M Meribout, F Shehzad, N Kharoua , **L Khezzar** (2020) Multiphase Flow Meters Targeting Oil and Gas Industries, *Measurement*, 108111
7. M Meribout, F Shehzad, N Kharoua , **L Khezzar** (2020) Gas-liquid Two-Phase Flow Measurement by Combining a Coriolis Flowmeter with a Flow Conditioner and Analytical Models, *Measurement*, Vol 163, 107826
8. M Meribout, F Shehzad, N Kharoua , **L Khezzar** (2020) An Ultrasonic-based Multiphase Flow Composition Meter, *Measurement*, vol 161, 107806
9. Z Tianxing, , M Alshehhi, **L Khezzar**, Y Xia and N. Kharoua (2020) Experimental Investigation of Confined swirling Flow and its Interaction with a Bluff Body, *ASME Journal of Fluids Engineering*, 142, 011102
10. Y. Xia, **L. Khezzar**, Y. Hardalupas, M. S. Alshehhi (2019) Influence of Energy Exchange Between Air and Liquid Streams on Spray Characteristics and Atomization Efficiency of Water-Air Impinging Jets, *Atomization & Sprays*, 29(8):677-707.
11. Z Tianxing, **L Khezzar**, M Alshehhi, Y Xia (2019) Experimental investigation of air- water turbulent swirling flow of relevance to phase separation equipment, *International Journal of Multiphase Flow*, 121, 103110
12. Y. Xia, **L. Khezzar**, Shrinivas Bojanampati, Arman Molki (2019) Breakup of the Water Sheet Formed by Two Liquid Impinging Jets, *International Journal of Chemical Engineering*, Article ID 9514848, Volume 2019.
13. Kharoua, N., Z. Nemouchi, **L. Khezzar**, and M.S. Alshehhi (2018) Combined Effects of Groups of Vortices Generated by a Pulsating Turbulent Plane Jet Impinging on a Semi-Cylinder: Effects of the Forcing Frequency, *International Journal of Thermal Sciences*, 133, 273-283.
14. Kharoua, N., **L. Khezzar**, and M.S. Alshehhi (2018) The interaction of confined swirling flow with a conical bluff body: Numerical simulation, *Chemical Engineering Research and Design*, 136, 207-218.
15. Y. Xia, **L. Khezzar**, M. S. Alshehhi and Y. Hardalupas (2018) “Atomization of Impinging Opposed water Jets Interacting with an Air jet”, *Experimental Thermal and Fluid Science*, 83, 11-22.
16. Y. Xia, M. S. Alshehhi, Y. Hardalupas and **L. Khezzar** (2018) Spray Characteristics of Free Air-on-Water Impinging Jets, *International Journal of Multiphase Flow*, 100, 86-103.
17. A Filali, **L Khezzar**, M Alshehhi and Z Nemouchi (2018) Effect of Solvent Contribution on Thermally Developing Flow of FENE-P Fluids Between Parallel Plates, *Journal of Applied Fluid Mechanics*, 11, 1.
18. A Filali, **L Khezzar** and M Alshehhi (2017) Numerical simulation of FENE-P viscoelastic fluid flow and heat transfer in grooved channel with rectangular cavities, *Korea-Australia Rheology Journal*, 29(3), 195-205.
19. Y. Xia, **L. Khezzar**, M. S. Alshehhi and Y. Hardalupas (2017) Droplet size and velocity characteristics of water-air impinging jet atomizer, *International Journal of Multiphase Flow*, 94, 31-43.
20. N. Kharoua, **L. Khezzar**, Z Nemouchi and M.S. Alshehhi (2017) LES study of the combined effects of groups of vortices generated by a pulsating turbulent plane jet impinging on a semi-cylinder, *Applied Thermal Engineering*, 114, 948-960.

21. Kharoua, **L. Khezzar** and M.S. Alshehhi (2017) Flow dynamics of a plane jet impinging on a slotted plate: Large eddy simulation, *Journal of Applied Fluid Mechanics*, 10(4), 1211-1222.
22. S. AlMelhi, A. Filali, **L. Khezzar** and M.S. Alshehhi (2017) Flow and Heat Transfer of a Giesekus Fluid in Plane and 3D Ducts, *Heat Transfer – Asian Research*, 46, 1380-1398.
23. N. Kharoua, M.S. Alshehhi and **L. Khezzar**, A. Filali (2017) CFD prediction of Black Powder particles' deposition in vertical and horizontal gas pipelines, *J of Petroleum Science and Engineering*, 149, 822-833.
24. N Kharoua, **L Khezzar** & Z Nemouchi (2016) "Flow structure and heat transfer in multiple impinging jets using LES", *Heat Transfer Research*, 47(4), 359-382.
25. A Filali, **L Khezzar**, M Alshehhi, N Kharoua (2016) A one-D approach for modelling transport and deposition of BP particles in gas networks, *J Natural Gas Science and Engineering*, 28, 241-253.
26. N. Kharoua, M.S. Alshehhi and **L. Khezzar** (2016) Effects of fluid flow split on black powder distribution in pipe junctions, *Advanced Power Technology*, 27(1), 42-52.
27. T Khan, Y Dai, , M Al Shehhi **L Khezzar** (2016) Experimental flow characterization of sand particles for pneumatic transport in horizontal circular pipes, *Powder Technology*, 292, 158-168.
28. N. Kharoua, M.S. Alshehhi and **L. Khezzar** (2015) "Prediction of Black Powder distribution in junctions using the Discrete Phase Model" *Powder Technology*, 286, 202-211.
29. **L. Khezzar**, N. Kharoua and K. Kiger (2015) "Large Eddy Simulation of liquid plunging jets processes", *Progress in Nuclear Energy*, 85, 140-155.
30. T S Khan, M Al Shehhi, S Stephen, **L Khezzar** (2015) "Characterisation and preliminary root cause identification of black powder content in a gas transmission network". *J of Natural Gas Science and Engineering*, 27, 769-775.
31. **L Khezzar** & A Fillali (2014) "Flow and Heat Transfer of FENE-P fluids in ducts of various shapes: effect of newtonia solvent contribution". *J Non Newtonian Fluid Mech*, 207, 7-20.
32. F Gaci, Z Nemouchi & **L Khezzar** (2013) "Contribution to the dynamics of the three dimensional flows in square-sectioned curved ducts", *Revue semestrielle de l'Universite Freres Mentouri B Sciences Appliquées*, 37, 21-30.
33. A Filali, **L Khezzar** (2013) "Numerical Simulation of the Graetz Problem in Ducts with Viscoelastic FENE-P Fluids", *Computers and Fluids*, 84, 1-15.
34. A Filali & **L Khezzar** (2013) "A Finite Element Investigation of Elastic Flow Asymmetries in Cross-Slot Geometries Using a Direct Steady Solver", *Fluid Dynamics and Material Processing*, 82, 110-121.
35. N. Kharoua, **L. Khezzar** and H. Saadawi (2013) "CFD Modelling of a Horizontal Three-Phase Separator: A Population Balance Approach", *American Journal of Fluid Dynamics*, 3 (4), pp.101-118
36. A Molik, **L Khezzar**, A Goharzadeh (2013) "Measurement of fluid velocity development in laminar pipe flow using Laser Doppler Velocimetry", *European Journal of Physics*, 34 (5), 1127-1134.
37. F Gaci, Z Nemouchi, **L Khezzar** (2013) "On the growth of vertical structures in the initial transient flow with heat transfer through a curved duct", *Advances and Applications in Fluid Mechanics*, 14(1), 27-51.

38. A Filali, **L Khezzar** & E Mitsoulis (2013) “Some Experiences with the Numerical Simulation of Newtonian and Bingham Fluids in Dip Coating”, *Computers and Fluids*, 82, 110-121.
39. N Kharoua, **L Khezzar** (2013) “Large Eddy Simulation Study of Turbulent Flow Around Smooth and Rough Domes” Proc. IMechE, Part C. *Journal of Mechanical Engineering Science*, 227(12), 2686-2700.
40. X Qu, A Goharzadeh, **L Khezzar** & A Molki (2013) “Experimental characterization of air-entrainment in a plunging jet”, *Experimental Thermal Fluid Science*, 44, 51-61.
41. A Filali, **L Khezzar**, D Siginer, Z Nemouchi (2012) “Graetz Problem with Non-linear Viscoelastic Fluids in Non-Circular Tubes” *Int. J. Thermal Sciences*, 61, 50-60.
42. A Benhacine, N Kharoua, **L Khezzar** & Z Nemouchi (2012) “Large Eddy Simulation of a slot jet impinging on a convex surface” *Heat and Mass Transfer*, vol 48, 1, 1-15.
43. X Qu, **L Khezzar** & Z Li (2012) “The Impact and Air Entrainment Process of Liquid Plunging Jets” Proc. IMechE, Part E. *Journal of Process Mechanical Engineering*, 226, 238-249.
44. **L Khezzar**, Y Vinogradov, & D Siginer (2012) “Natural Convection of Power Law Fluids in Inclined Cavities”, *International Journal of Thermal Sciences*, 53, 8-17.
45. **L Khezzar**, D Siginer & I Vinogradov (2012) ‘Natural Convection in Inclined Two-Dimensional Cavities’, *Heat & Mass Transfer*. 48, 2, 227-239.
46. N Kharoua, **L Khezzar** (2011) “Flow Asymmetry in symmetric multiple impinging jets: A Large Eddy Simulation Approach” *Journal of Engineering Research (TJER)*, 48, No. 2, 40-48.
47. X Qu, **L Khezzar**, D Danciu, D Lakehal & M Labois (2011) “Characterisation of Plunging Liquid Jets: A combined experimental and numerical investigation” *International Journal of Multiphase Flow*, 37, 7,722-731.
48. I Vinogradov, **L Khezzar** & D Siginer (2011) “Heat Transfer of Non-newtonian Dilatant Power Law Fluids in Square Cavities, *Journal of Applied Fluid Mechanics*, Vol. 4, No. 2 special issue, 37-42.
49. N Kharoua, **L Khezzar** & Z Nemouchi (2011) ‘Study of pressure drop and flow field in standard gas cyclone models using the granular model’” *International Journal of Chemical Engineering*, (2011), Article ID 791218, doi:10.1155/2011/79218, 11 pages.
50. F T Akyildiz, D A Siginer & **L Khezzar** (2011) “Energy Losses and Heat Transfer Enhancement in Transversally Corrugated Pipes”, *International Journal of Heat and Mass Transfer*, 54, 3801-3808.
51. **L Khezzar** & S Al Alawi (2010) “CFD and Artificial Neural Networks Analysis of Plane Sudden Expansion Flows, *International Journal of Engineering*, 4, (4), 296-307.
52. N Kharoua, **L Khezzar** & Z Nemouchi (2010) ‘CFD Study of the Parameters Affecting Oil-Water Hydrocyclone Performance’ Proc. IMechE, Part E. *Journal of Process Mechanical Engineering*, IMechE, Part E, 224, 119-128.
53. N Kharoua, **L Khezzar** & Z Nemouchi (2010) ‘Hydrocyclones for de-oiling applications – A Review’ *Journal of Petroleum Science & Technology*, vol 8, 7, 738-755.
54. **L Khezzar**, A C Seibi & A Goharzadeh (2009) ‘Water Sloshing in Rectangular Tanks- An Experimental Investigation and Numerical Simulation’, *International Journal of Engineering*, Vol 3, 2, 174-184.
55. Y Zurigat, B Jubran & **L Khezzar** (2008) ‘Surge Analysis of Multiphase Flow in a Gathering Manifold’, *Journal of Petroleum Science & Technology*, 26, n15:1741-1756.

56. M Benayoune & **L Khezzar** (2007) "Petrochemical Industry Development in the MENA Region : The Omani Experience", *MedEnergie Journal*, No 22, Jan 2007, 34-40.
57. **L Khezzar** and Y Zurigat (2006) "Analysis for Operation of Bottom Water Draw-Off of Stratified oil-water Pipe Flow", *Petroleum Science & Technology*, 24, 5, 449-457.
58. **L Khezzar** & D Garis (2005) "Aspects of The desalination Experience in The Gulf States", *MedEnergie*, No 16, July 2005, 32-40.
59. Y Lahiouel, K Chaoui, **L Khezzar**, A Haddad & Z Azari (2005) "Optimisation of water distribution networks design by minimizing the total length", *Engineering Transactions*, Polish Academy of Sciences Vol 53, No 2, 163-183.
60. **L Khezzar** (2004) "Independent Power Producers in Developing Countries : Is it an Appropriate Solution?" *MEDenergie Journal*, No 13, October 2004, pp 23-29.
61. Y Lahiouel, A Haddad, **L Khezzar** & K Chaoui (2003) "Development of a Method of Routing Networks of Fluid Distribution", *Mechanika*, 42, 4, 27-34.
62. Y Zurigat & **L Khezzar** (2001) "A Numerical Study of Bottom Water Draw-Off of Stratified Oil-Water Pipe Flow", *Petroleum Science & Technology*, issue 19(9&10), pages 1070-1088.
63. **L. Khezzar**, S Harous & M Benayoune (2001) "Steady-State Analysis of Water Distribution Networks Including Pressure Reducing Valves", *Computer-Aided C & I Engineering Journal*, 16, 4, 259-267.
64. **L. Khezzar**, S Harous & M Benayoune (2000) "Software Engineering Issues in the Design of and Upwardly-Complex Water Network Analysis Program", *Journal of Water Management Modelling*, DOI: 10.14796/JWMM.R206-04.
65. **L Khezzar** & A Seibi (2000) "Production system modeling calibration and optimization in practice", *Petroleum Science & Technology*, 18, 5&6, 567-586.
66. S De Zilwa, **L Khezzar** & J H Whitelaw (2000) "Flows through Plane sudden expansions" *International Journal for Numerical Methods in Fluids*, 32, 3, 313-329.
67. **L Khezzar**, S De Zilwa & J H Whitelaw (1999) "Combustion of premixed fuel and air downstream of a plane sudden expansion" *Experiments in Fluids*, 27(4), 296-309.
68. M E H Benhamza, **L Khezzar** & M F Marquis (1999) "Flow characteristics inside a diffuser of complex shape" Proc. IMechE, *J. of Mech. Eng. Science, Part C*, vol. 213, 277-289.
69. K Al-Asmi, M Benayoune and **L Khezzar** (1998) "Flow of water-oil mixtures through a pipeline", *Khimicheskoe Neftgazovoe Mashinostroenie*, 5, 10-13. ISSN 00231126
70. **L Khezzar** (1998) "Velocity Measurements in the Near Field of a Radial Swirler" *Experimental Thermal and Fluid Science*, 16, 3, 230-236.
71. M Benayoune, **L Khezzar** & M Al Rumhy (1998) "Viscosity of water in oil emulsions" *Petroleum Science & Technology*, vol. 16, 7&8, 767-784.
72. **L Khezzar** & M Benayoune & S Al-Hadaibi (1998) "Numerical simulation of flow and scalar distribution in a room" *Emirates Journal of Engineering Research*, vol. 3, No. 1, 79-83.
73. **L Khezzar** & M Benayoune (1997) "Application of a design method of a supersonic nozzle" *Journal of Engineering & Applied Science*, vol 44, 5, 933-943.
74. I Hakeem & **L Khezzar** (1997) "Some experimental investigations of mixed-flow exhaust turbocharger turbine in time-varying inlet conditions", *Journal of Engineering & Applied Sciences*, 16, No 2, 109-129.
75. K Al-Asmi, M Benayoune & **L Khezzar** (1997) "Flow behaviour of heavy crude oil", *Petroleum Science and Technology*, vol. 15, 7 & 8, 647-665.

76. O. Houache, **L Khezzar** & M Benhamza (1996) "Matrix Methods for Pipe Network Analysis", *Transactions of the IchemE, Research and Design (now Chemical Engineering Research and Design)*, vol 74, Part A, 321-328.
77. C Arcoumanis, **L Khezzar**, B Warren & S D Whitelaw (1994) "Shear break-up of Newtonian and non-Newtonian droplets", *Experiments in Fluids*, 17, 405-414.
78. **L Khezzar** & J H Whitelaw (1994) "Numerical simulation of fume cupboard performance", *Proc. IMechE, Part C Journal of Mechanical Eng. Science*, **208**, 155-166.
79. M E H Benhamza, A Haddad & **L Khezzar** (1993) "Etude d'un écoulement turbulent a travers un coude de section carrée par anémométrie laser Doppler", *Revue Internationale Algerienne des Technologies Avancées*, 1, 66-89.
80. A F Bicen, **L Khezzar**, M C Schmidt & J H Whitelaw (1989) "Heat transfer and velocity characteristics of single and two phase flows in a subsonic model gun", *Experimental Heat Transfer an International Journal*, 2, N4, 333-352.
81. **L Khezzar** & J H Whitelaw (1988) "Flows through sudden contractions", *Proc. IMechE, Part C, Journal of Mechanical Eng. Science*, 202, 295-300.
82. A F Bicen, **L Khezzar** & J H Whitelaw (1988) "Subsonic single phase flow in a gun simulator", *AIAA Journal*, 25, 1, 47-51.
83. **L Khezzar**, J H Whitelaw & M Yianneskis (1986) "Round Sudden expansion flows", *Proc. IMechE, Part C, Journal of Mechanical Eng. Science*, 200, 6, 447-455.

#### **COMMUNICATIONS ET PUBLICATIONS DANS DES CONFERENCES:**

1. R. Hernandez, A. Goharzadeh, M. Meribout, L. Khezzar (2021) "Experimental Characterization of Two-Phase Swirl Flow Interacting With a Circular Bluff Body", ASME FEDSM2021, 10-12 August -65664 Technical Paper Publication 65664.
2. A. Filali, O. K. Matar, L. Khezzar, H. Semmari (2020) "Artificial Neural Network for the prediction of heat transfer of mixed convection in lid-driven cavity with double vertical blocks", APS DFD 2020 conference 22-24 November in Chicago, USA
3. A. Almheiri, L Khezzar, M Alshehhi, A Salam, A Goharzadeh (2020) "Stereo-PIV measurements of turbulent swirling flow inside a pipe", ASME FEDSM2020-20064, 12-16 July, Orlando, USA.
4. A, Filali, L. Khezzar, H. Semmari (2020) "Improved power for wind farm savonius rotors: Effect of blade shape and rotors position", ASME FEDSM2020-20071, 12-16 July, Orlando, USA.
5. A. Filali, L. Khezzar, O. Matar, H. Semmari (2019) "Laminar mixed convection in square cavity with rotating cylinder mounted at different side walls" 5th International conference on Energy, Materials, Applied Energetics and Pollution, 22-24 October, Constantine Algeria.
6. A, Filali, O. Matar, H. Semmari, A. Boumaaraf, K Zitouni, L. Khezzar (2019) "Enhanced power for a new design of Savonius rotors", 72nd Annual Meeting of APS Division of Fluid Dynamics, Seattle, Washington, USA.
7. F. Xue, A. Goharzadeh, L Khezzar (2019) "Flow past a rough hemishpere mounted on a horizontal surface in a confined channel" HEFAT 2019 conference Dublin Ireland.
8. Z Tianxing, A. Almheiri, L Khezzar, M Alshehhi, A Salam (2019) "Experiments on turbulent air-water swirling flow in a pipe with a circular disk", AJKFLUIDS2019-4685, ASME-JSME-KSME, 2019 Joint Fluids Eng conference, San Fransisco CA.

9. N Seo, N Kharoua, L Khezzar, M Alshehhi, M Meribout (2019) "Multiphase flow simulation of in-line gas-liquid separator for multiphase metering, AJKFLUIDS2019-4685, ASME-JSME-KSME, 2019 Joint Fluids Eng conference, San Fransisco CA.
10. J Song, N Kharoua, L Khezzar, M Alshehhi (2018) "RANS Modelling of a Swirling Flow Interacting With a Conical Bluff Body" FEDSM2018-83065, Montreal Canada, July 15-20.
11. N. Kharoua, L. Khezzar and Z. Nemouchi (2018) " Effects of Forcing Frequency on Pulsating Impinging jet behaviour and The Boundary layer on the Target Curved Wall" To be presented in FEDSM2018-833334, Montreal Canada, July 15-20.
12. Z Tianxing, N Kharoua, L Khezzar, M Alshehhi (2018) "Experiemnts and LES of Swirling Flow in a Pipe" To be presented in FEDSM2018-83067, Montreal Canada, July 15-20.
13. N. Kharoua, L. Khezzar and Z. Nemouchi (2018) LES of Pulsating Cooling Impinging Jet Under Different Forcing Frequencies, CIEMEAP, 29-30 Avril 2018, Université Constantine 1.
14. S. Horra, Z. Nemouchi & L. Khezzar (2018) On the thremal behavior of a turbulent impinging jet issuing from a nozzle with chevrons, CIEMEAP, 29-30 Avril 2018, Université Constantine 1.
15. N. Kharoua, L. Khezzar and Z. Nemouchi (2017) LES Study of Pulsating Impinging Jets for Heating and Cooling Applications, CAM 2017, Constantine 2017.
16. T S Khan, M S Alshehhi, L Khezzar (2017) "Characterisation of Black Powder in Sales Gas Pipelines" IMECE2017-72255, Tampa, Florida, US.
17. Y Xia, L Khezzar & M Alshehhi (2016) "Phase Doppler Anemometry Measurement in Water-Air Impinging jet Flows", IMECE 2016, 65199, Phoenix, USA
18. A Filali, L Khezzar & M Alshhehi (2016) "Flow Behaviour Of FENE-P Fluids in Grooved Parallel Plates With Transverse Cavities", IMECE 2016, 65198, Phoenix, USA
19. S Hora, Z Nemouchi & L Khezzar (2016) "Effects of the shape of a nozzle with chevrons on the dynamics of turbulent impinging jet" IMECE 2016, 68125, Pheonix, USA.
20. N. Kharoua, L. Khezzar, M.S. AlShehhi and M. Meribout (2016) Numerical Simulation of a New Gas-Liquid Separator. Third International Conference on Energy, Materials, Applied Energetics and Pollution ICEMAEP2016, Constantine, Algeria
21. N. Kharoua, L. Khezzar and M.S. AlShehhi (2016) Flow Dynamics of an Impinging Plane Jet Generating Slot Tones. Third International Conference on Energy, Materials, Applied Energetics and Pollution ICEMAEP2016, Constantine, Algeria
22. S. AlMelhi, L. Khezzar, M. AlShehhi, and A. Filali (2015) Numerical Simulation of Heat Transfer of Non-Newtonian Elastic Fluid, IMECE, 8A-2015, Houston, USA, 50854
23. D. Ying, T. S. Khan, M. S. Alshehhi and L. Khezzar, "Experimental investigation on particle deposition patterns from turbulent pipe flow", Paper number 51729, Proceedings of the 2015 International Mechanical Engineering Congress & Exposition IMECE 15, 7A-2015, NOVEMBER 13-19, 2015, HOUSTON, TEXAS, USA.
24. N. Kharoua, L. Khezzar, Z. Nemouchi, and M.S. Alshehhi (2015), Study of the interaction between coherent structures and boundary layer in a forced turbulent plane jet impinging on a semi-cylinder, 2ème Conférence Internationale de Mécanique (ICM'15, Constantine, Algeria paper 331
25. Filali, L. Khezzar, M.S. Alshehhi and N. Kharoua (2015), A one dimensional model to track the black powder dispersion and deposition within gas transmission network, ADIPEC, Abu Dhabi, UAE, SPE-177867-MS

26. Filali, Z. Nemouchi and L. Khezzar (2015) Écoulement tourbillon dans une chambre de combustion, Congrès Algérien de Mécanique CAM 2015, El-Oued, Algeria, paper nb 0268-MFSI
27. D. Ying, T. S. Khan, M. Alshehhi and L. Khezzar, “Experimental characterization of particle-laden air flow in a horizontal pipe”, Paper number AJK2015-32339, Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference 2015, AJK2015-FED, July 26-31, 2015, Seoul, Korea.
28. B. McGaffey L. Khezzar and A. Molki Plunging Jet experiments, Congrès Algérien de Mécanique CAM 2015, El-Oued, Algeria, paper nb 0269
29. A. Filali, L. Khezzar, and Z. Nemouchi, (2014) "Entry flows for FENE-P fluids in a plan passage for constant heat flux & wall temperature boundary conditions." ICHMT - International Symposium on Convective Heat and Mass Transfer (CONV-14), Paper N° 110, 8 – 13 June, Kusadasi, Turkey.
30. A. Filali, L. Khezzar, (2014) "Finite element simulation of the Graetz problem in an elliptic duct for a viscoelastic fluid." ICHMT - International Symposium on Convective Heat and Mass Transfer (CONV-14), Paper N° 194, 8 – 13 June, Kusadasi, Turkey.
31. N Kharoua, M Alshehhi, L Khezzar (2014) “Numerical simulation of solid-phase split at junctions in particle laden pipe flow. ASME Winter meeting, IMECE2014-38013, 14-20 November, Montreal, Canada.
32. Y F Qaroot, N Kharoua, L Khezzar (2014), “Discrete Phase Modeling of oil Droplets in the Gas Compartment of a Production Separator”, ASME Winter meeting IMECE2014-37999, 14-20 November MontREAL, Canada.
33. N Kharoua, L Khezzar, Z Nemouchi and M Alshehhi (2014) “Large Eddy simulation of forced and unforced plane jets impinging on a convex surface. ASME Winter meeting IMECE2014-37395, 14-20 November, Montreal, Canada.
34. A Goharzadeh., L. Khezzar and A. Molki, (2013) “Vortex development behind a hemisphere mounted on a horizontal surface, *12<sup>th</sup> International Symposium on Fluid Control, Measurement and Visualization* FLUCOME2013, Paper no. 0175, NARA, Japan.
35. I. A. Kodssi, L. Khezzar and N. Kharoua (2013) “Pressure Drop and Heat Transfer in a Sinusoidal Wavy Pipe”, Congrès Algérien de Mécanique, CAM2013, Mascara, Algerie,
36. N Kharoua, L Khezzar & H Saadawi (2013) “CFD Simulation of three-phase separator: effect of size distribution”, FEDSM2013-16322, ASME 2013 Fluids Engineering Summer Meeting, July 7-11, 2013, Reno, Nevada, USA.
37. Z Li, L Khezzar & N Kharoua (2013) “Large Eddy Simulation of a forced turbulent jet impacting on a semi-cylinder”, FEDSM2013-16321, ASME 2013 Fluids Engineering Summer Meeting, July 7-11, 2013, Reno, Nevada, USA
38. N Kharoua, L Khezzar & H Saadawi (2012)“ Using CFD to Model the Performance of Retrofit Production Separators in Abu Dhabi”, paper SPE-161521-PP, ADIPEC Conference and Exhibition, Abu Dhabi, United Arab Emirates, 11-14 November 2012.
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