

Modele CV Enseignant

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Rank: Professor

Department: Process Engineering

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Educational Profile:

- Professor in Process Engineering on December 2021 at the National Polytechnic School of Constantine (Algeria).
- Associate Professor in Process Engineering on September 2014, University of Constantine 3, Algeria.
- Doctorat Science/PhD in Process Engineering, 2012 , University Mentouri of Constantine, Algeria
- Magister in Chemical Process,1997; University Mentouri of Constantine , Algeria
- Engineer's degree in Chemical Process,1995; University Mentouri of Constantine , Algeria
- bachelor's degree in mathematics in 1990 Constantine , Algeria

Honors and Distinctions

Scientific Activities & Membership of Scientific Societies

List of Current Research Projects

List of Journal Publications

1. Redjeb Y, **Kaabeche-Djerafi, K**, Anna S, Alberto B. The IRC-PD Tool: A Code to Design Steam and Organic Waste Heat Recovery Units. *Energies* 2021;Vol 14(18):5611. ISSN 1996-1073, E-ISSN 1996-1073
2. Redjeb, Y, **Kaabeche-Djerafi, K**, Saouli, O, AspenPlus based simulation for waste heat recovery in cement industries. *Journal of New Technology and Materials* 2019, VOL. 08, Issue: 03.
3. Belkhiri, N, Saouli, O, **Kaabeche-Djerafi, K**, Numerical simulation of CO2 transport through hollow fiber membrane: Effect of chemical solvent. *Journal of New Technology and Materials*, 2019, VOL: 08, Issue: 03.
4. **Kaabeche-Djerafi, K**, Kara, M, Ghernoug, S, Belbaki, A. Bousba, S, Energy recovery in the baking line of the cement plant Djawad Taher of Algeria. *Journal of Chemical Engineering Transactions*, 2014, VOL. 37, ISBN 978-88-95608-28-0; ISSN 2283-9216,E-ISSN 22839216,

5. **Kaabeche-Djerafi, K**, Belbaki, A, Coupling Effect of non-Linearity and Chemical Heterogeneity on Reactive Solute Transport in a Fixed Bed. Journal of Chemical Engineering Transactions, 2013, VOL. 32, ISBN 978-88-95608-23-5; ISSN 1974-9791
6. **Kaabeche-Djerafi, K**, Semra, S, Bendjaballah-Lalaoui, N, Effect of Chemical Heterogeneity on Linear Adsorbed Solute Dispersion in fixed bed. Journal of Energy Procedia. ELSEVIER Mai 2012, Vol 18,pp 1199-1207.
7. **Kaabeche-Djerafi, K**, N. Bendjaballah-Lalaoui, N, and Semra, S, Effect of medium capacity on the relationship between chemical heterogeneity and linearly adsorbed solute dispersion into fixed beds. World Academy of Science, Engineering and Technology, 2011, 76, ISSN 2010-376X
8. **Kaabeche-Djerafi, K**, Afrid, M, On the hemodynamic forces contribution to the formation of a cerebral aneurysm in an artery. Hydrodynamics theory and applications, 1998, Vol 2, page(s) 991-998, UIAM Publishers, ISBN 8974722127.
9. Redjeb, Y, **Kaabeche-Djerafi, K**. Thermodynamic Optimization of an Air bottoming Cycle for Waste Heat Recovery from Preheater Tower in a Cement Industry. Algerian Journal of Renewable Energy and Sustainable Development. 2021. VOL 3(01), 97-103.

List of Conference Papers

1. Redjeb, Y, Benato, A, Stoppato, A, **Kaabeche-Djerafi, K**, Evaluation of organic Rankine cycle using low GWP fluids as a technology for Algerian cement industries waste heat recovery, 6th International Seminar on ORC Power Systems, 11 - 13 October 2021, (ORC'21) Munich, Germany. (Proceeding paper)
2. Redjeb, Y, Benato, A, Stoppato, A, **Kaabeche-Djerafi, K**, Waste Heat Recovery from Algerian cement industries: SRC and ORC thermodynamic optimization, economic and environmental factors. 34th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, 28 June-02 July, 2021, Taormina, Messina, Italy, (ECOS2021):(Proceeding paper)
3. **Kaabeche-Djerafi, K**, Nekkaa, A, Modeling and Simulation of Transport of Insulin Aerosol into the Lungs at the Level of Trachea, International Conference on Industrial Engineering and Its Application Areas, 14-15 July, Istanbul, Turkey, 2016.
4. **Kaabeche-Djerafi, K**, Saouli, O, Numerical Study of Chemical Heterogeneity Effect on the Herbicide Retention. The Sixth International. Conference on Chemical, Biological and Environmental Engineering, 15-16 September, Paris, France, 2014
5. Kaabeche-Djerafi, K, Bendjaballah-Lalaoui, N, Numerical Study of the Effect of Medium Capacity with Chemical Heterogeneity on the Reactive Dispersion in Porous Media. The Fourth International Renewable Energy Congress, December 20-22, Sousse-Tunisia, 2012.
6. **Kaabeche-Djerafi, K**, Bendjaballah-Lalaoui, N, et Semra, S, Etude numérique de l'effet de l'hétérogénéité chimique d'un milieu poreux sur la dispersion réactif. The 3rd maghreb conference on desalination and water treatment. CMTDE, 2011, hammamet, tunisia 18-22 december.
7. **Kaabeche-Djerafi, K**, Semra, S, Bendjaballah-Lalaoui, N, Adsorption and ion exchange fixed-bed operation scale-up: a new parameter to be taken into account. First International Conference. Advances in Water Treatment and Reuse at university of TEHRAN, 10-12, November 2009, TEHRAN, IRAN.
8. Redjeb, Y, **Kaabeche-Djerafi, K**, Evaluation of a Steam Rankine Cycle for waste heat recovery from preheater tower in a cement industry. 1st International Conference on Sustainable

Energy and Advanced Materials, 21-22 April, 2021, University of Ouargla, ALGERIA, (IC-SEAM'21).

9. Redjeb, Y, **Kaabeche-Djerafi, K**, Thermodynamic optimization of an Air bottoming cycle for waste heat recovery from preheater tower in a cement industry, National Conference on Renewable Energies and Energy Efficiency, University of Adrar, 06 February, 2021: (Selected paper), (CNEREE'21).
10. Semmar, S, Bendjaballah-Lalaoui, N, Kaabeche-Djerafi, K, Modélisation discrète du transport de toluène dans un milieu poreux homogène, 4^{èmes} journées de chimie (jch4), 29-30 mars 2011, école militaire polytechnique bordj –el- bahri, Alger, Algérie

List of Current Doctoral Research Students Supervision

1. Youcef Redjeb, ,
2. Aymen Khouda Abdenour
3. Laali Zeineb