

## CV for Kim Dam-Johansen (1958)



### Degrees

1987 PhD Technical University of Denmark  
1983 MSc Technical University of Denmark

### Positions

2000 - Head of Department, Professor DTU Chemical Engineering  
1998: Group Vice President, Hempel A/S  
1993: Professor  
1990: Associate Professor  
1988: Assistant Professor, DTU Chemical Engineering  
1986: Assistant Professor DTU/Engineering Academy

### Research Area

Experimental and theoretical Reaction Engineering applied in Coatings Design and Production, Combustion, High Temperature Processes, Emissions Control, and Pharma Production.

### Distinctions and awards

2011: Honorary Professor, Institute of Process Engineering, China.  
2011: Einstein Processor, Chinese Academy of Sciences.  
2011: Doctor Honoris causa, Aabo Academy University, Finland.  
World most cited researcher in combustion and 5<sup>th</sup> most cited in Energy and Fuels (1998-2008).  
A number of awards (e.g. ASME, Lim Prize, IFV Jubilee Foundation, Fælleskemikernes Jubilee Prize).

### Memberships of scientific committees, review, positions of trust (selected)

Member of the board of Hempel Holding A/S, Hempel Foundation (100 % owner of Hempel A/S/Hempel Holding A/S), VGB Scientific Advisory Board, Danish Academy of Technical Sciences, Danish Technical Chemical Foundation (chairman), Previous member of a very large number of boards and steering committees, i.e. The Board of Appeal for Patents and Trademarks (DK), Climit (Norwegian Research Committee), Danish and international journals, research programs, conferences and evaluation committees. Head of the SDC Education in Chemical and Biochemical Engineering.

### ISI journal publications (WoS, May 2016)

230; Citations: 7732; H.index: 50; Impact 33.62; Patents: 11.

### Books

NG, Gani, Dam-Johansen (editors): Chemical Product Design. Elsevier, 2007.

### Supervision of PhDs, MSc's, BSc's etc.

Supervision of hundreds of BSc, MSc and PhD thesis.

### Teaching and Education activities

Teacher in bachelor, master, PhD and continuing education courses at DTU and in the framework of Sino-Danish Centre for Research and Education.

### Grants

Significant framework programs with FLSmidth A/S, Hempel Foundation, Haldor Topsoe A/S, DONG Energy A/S, Vattenfall AB, Novozymes, Lundbeck, significant grants from Danish and international public foundations and research programs.

### Research collaboration with industry

Significant projects with/funding from Hempel, FLSmidth A/S, DONG Energy A/S, Novozymes A/S, Lundbeck A/S, Babcock Wilcox Vølund, HWAM A/S, Haldor Topsoe A/S.

## Some publications

1. **SO<sub>2</sub> Release as a Consequence of Alternative Fuel Combustion in Cement Rotary Kiln Inlets.** Mut Mdm C, Norskov, L K, Glarborg P, Dam-Johansen K, 2015 In Energy & Fuels, 29, 4, p. 2729-2737.
2. **Effects of biofouling development on drag forces of hull coatings for ocean-going ships: a review.** Lindholdt, A; Dam-Johansen, K., Olsen, S.M., Yebra, D.M. & Kiil, S. 2015 in: Journal of Coatings Technology and Research. 12, 3, p. 415-444.
3. **Laboratory and gas-fired furnace performance tests of epoxy primers for intumescent coatings.** Nørgaard, K.P., Dam-Johansen, K., Catala, P. & Kiil, S. 2014 in: Progress in Organic Coatings. 77, 10, p. 1577-1584
4. **Separation of Enantiomers by Preferential Crystallization: Mathematical Modeling of a Coupled Crystallizer Configuration.** Chaaban, J.H., Dam-Johansen, K., Skovby, T. & Kiil, S. 2014 in: Organic Process Research and Development. 18, 5, p. 601-612.
5. **CO<sub>2</sub> Capture by Cement Raw Meal.** Pathi, S.K., Lin, W., Illerup, J.B., Dam-Johansen, K. & Hjuler, K. 2013 in: Energy & Fuels. 27, p. 5397-5406.
6. **Full-scale Continuous Mini-Reactor Setup for Heterogeneous Grignard Alkylation of a Pharmaceutical Intermediate.** Pedersen, M.J., Holm, T., Rahbek, J.P., Skovby, T., Mealy, M.J., Dam-Johansen, K. & Kiil, S. 2013 in: Organic Process Research and Development. 17, 9, p. 1142-1148.
7. **Cement Formation: A Success Story in a Black Box: High Temperature Phase Formation of Portland Cement Clinker.** Telschow, S., Jappe Frandsen, F., Theisen, K. & Dam-Johansen, K. 2013 in: Industrial & Engineering Chemistry Research. 51, p. 10983-11004.
8. **Design and operation of a filter reactor for continuous production of a selected pharmaceutical intermediate.** Christensen, K.M., Pedersen, M.J., Dam-Johansen, K., Holm, T.L., Skovby, T. & Kiil, S. 2012 in: Chemical Engineering Science. 71, p. 111-117.
9. **Internal steam reforming in solid oxide fuel cells: Status and opportunities of kinetic studies and their impact on medelling.** Mogensen, D., Grunwaldt, J-D., Hendriksen, P.V., Dam-Johansen, K. & Nielsen, J.U. 2011 in: Journal of power Sources. 196, 1, p. 25-38.
10. **Anticorrosive coatings: a review.** Sørensen P.A., Kiil S, Dam-Johansen K, Weinell C. 2009 in: Journal of Coatings Technology and Research, 6,2, p 135-176.

## Some Patents

1. Dam-Johansen K.; Jensen P.A.: Torrefaction and partial pyrolysis to produce fuel pellets with counter current flow of tar. Publ. number: 20140115956; 2014.
2. Dam-Johansen K.; Jensen P.A.: Torrefaction and partial pyrolysis of material for fuel pellet production. Publ.number: 20140109468; 2014
3. Dam-Johansen K.; Jensen P.A.; Frandsen F.; Madsen O.: Boiler producing steam from flue gases under optimized conditions. Patent number: 8234985; 2012
4. Olsen S.M.; Kiil S.; Dam-Johansen K.; Pedersen L.T.: Enzyme-based self-polishing coating compositions. Publ. number: 20120031300; 2012
5. Dam-Johansen K.; Bech N.: Method and a mobile unit for collecting biomass. Publ. number: 20090090058; 2009. Patent number: 7935227; 2011
6. Dam-Johansen K.; Bech N.; Jensen P.A.: Pyrolysis methods and apparatus. Publ. number: 20080264771; 2008. Patent number: 7931783; 2011
7. Dam-Johansen K.; Jensen P.A.; Frandsen F.; Madsen O.: Boiler producing steam from flue gases under optimized conditions. Publ. Number: 20090145344; 2009
8. Iversen S.B.; Bhatia V.K.; Dam-Johansen K.; Jonsson G.: Mass transfer method and apparatus. Publ. number: 20010042716; 2001. Patent number: 6309550; 2001