

## REFERENCES

- Jiang, C. (1996) Solubility and solubility constant of barium sulfate in aqueous sodium sulfate solution between 0 and 80 °C. Journal of Solution Chemistry, 25, 1.
- Kucher, M., Babic, D., and Kind, M. (2006) Precipitation of barium sulfate: Experimental investigation about the influence of supersaturation and free lattice ion ratio on particle formation. Chemical Engineering and Processing, 45, 900-907.
- Hans, C.S., Wolfgang, P. (2002) Experimental Investigation into the Influence of Mixing on Nanoparticle Precipitation. Chemical Engineering Technology, 25, 6.
- Monnin, C. (1999) A Thermodynamic Model for the Solubility of Barite and Celestite in Electrolyte Solutions and Seawater to 200 °C and to 1 kbar,; Chemical Geology, 153, 187.
- Graham, G.M., and Dyer, S.J. (2002) The effect of temperature and pressure on oilfield scale formation. Journal of Petroleum Science and Engineering, 35, 95-107.
- Basil, D.S., Petros, G. K. (1992) Spontaneous Precipitation of Barium Sulfate in Aqueous Solution. Journal of the Chemical Society, Faraday Transactions, 88(20), 3063-3066.
- Wolfgang, P., Hans, C.S., Martin, G., Lydia, G., Frank, S. (2003) Control of particle interfaces – the critical issue in nanoparticle technology. Advanced Powder Technology, 14, 4, 411-426.
- Mersmann A., Crystallization Technology Handbook. (2001) 2<sup>nd</sup> ed New York: Marcel Dekker.
- Schwarzer, H-C., Peukert, W. (2002) Experimental investigation into the influence of mixing on nanoparticle precipitation. Chemical Engineering and Technology, 25 (6), 657-661.

- Schwarzer, H, -C., Peukert, W. (2004a) Tailoring particle size through nanoparticle precipitation. Chemical Engineering Communications, 191 (4), 580-606.
- Schwarzer, H, -C., Peukert, W. (2004b) Combined experimental/numerical study on the precipitation of nanoparticles. AIChE Journal, 50 (12), 3234-3247.
- Hans, -C.S., Florian, S., Michael, M., Hans, -J.S., Wolfgang, P. (2006) Predictive simulation of nanoparticle precipitation based on the population balance equation. Chemical Engineering Science, 61, 167-181.
- Quddus, A., and Allam, I.M. (2000) BaSO<sub>4</sub> scale deposition on stainless steel. Desalination, 128, 219-224.
- Putnis, A., Putnis, C.V., U. of Cambridge, and Paul, J.M. (1995) The efficiency of a DPTA-based solvent in the dissolution of barium sulfate scale deposits. Paper presented at the Society of Petroleum Engineers International Symposium on Oilfield Chemistry, February, 14-17, San Antonio, Texas, USA
- Van Der Leeden, M.C., Kaschiev, D., and Van Rosmalen, G.M. (1992) Precipitation of barium sulfate: Induction time and the effect of an additive on nucleation and growth. Journal of Colloid and Interface Science, 152, 2.
- Morizot, A.P., and Neville, A. (1999) Investigation of barium sulphate deposition and precipitation using a novel approach. Paper presented at Corrosion 99 (paper no. 113), (pp 1-13), NACE, San Antonio, Texas, USA
- Yen, T.F., and Dunn, K. (1999) Dissolution of barium sulfate scale deposits by chelating agents. Environment Science & Technology, 33, 16.
- Putnis, C. V., Kowacz, M., and Putnis, A. (2008) The mechanism and kinetics of DTPA-promoted dissolution of barite. Applied Geochemistry, 23, 2778-2788.
- Scharzer, H-C., Peukert, W. (2005) Prediction of aggregation kinetics based on surface properties of nanoparticles. Chemical Engineering Science, 60 (1), 11-25.

## CURRICULUM VITAE

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