

Publication summary (Last update: October 21, 2017)

- 1 book (co-author)
- 1 book chapter (co-author)
- 34 peer-reviewed journal articles
- 59 conference papers
- ISI citation count: 217
- ISI H-index: 9
- SCOPUS citation count: 259
- SCOPUS: H-index: 9
- Google Scholar citation count (incl. books): (1007) 466
- Google Scholar H-index: 13

Books and book chapters

- [1] R. Carlson and J. E. Carlson, *Design and Optimization in Organic Synthesis: Second Enlarged and Revised Edition*. Amsterdam: Elsevier, 2nd ed., 2005.
- [2] R. Carlson and J. E. Carlson, *Comprehensive Chemometrics: Chemical and Biochemical Data Analysis*, vol. 1, ch. The Study of Experimental Factors, pp. 301–344. Amsterdam: Elsevier, 2009.

Theses and reports

- [1] J. Carlson, *Ultrasonic Characterization of Materials and Multiphase Flows*. PhD thesis, Luleå University of Technology, April 2002.
- [2] J. Carlson, “Multiphase flow measurements using ultrasound,” Licentiate thesis, Luleå University of Technology, February 2000.
- [3] J. Carlson and A. Grennberg, “A new algorithm for constructing optimal experimental designs,” Research report, Luleå University of Technology, November 1998. ISSN: 1402-1528.
- [4] J. Carlson, “Ultrasound measurements in moving multi-phase suspensions,” Master’s thesis, Luleå University of Technology, January 1998. ISSN: 1402-1617.

Peer-reviewed journal articles

- [1] R. Carlson, J. Carlson, and A. Grennberg, “A novel approach for screening discrete variations in organic synthesis,” *J. Chemometrics*, vol. 15, no. 5, pp. 455–474, 2001.
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- [9] J. E. Carlson and R. Carlson, “Prediction of molar fractions in two-component gas mixtures using pulse-echo ultrasound and PLS regression,” *IEEE Trans. Ultrason., Ferroelec., and Freq. Contr.*, vol. 53, no. 3, pp. 606–613, 2006.

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Conference papers

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Other (popular science or contributions to magazines and trade-shows)

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