

2015

Articles Crystallization Systems

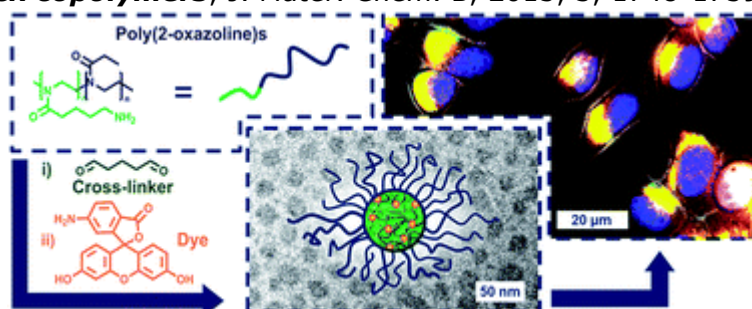


## Articles Industry and Academia



01.2015

Matthias Hartlieb, David Pretzel, Michael Wagner, Stephanie Hoepfner, Peter Bellstedt, Matthias Görlach, Christoph Englert, Kristian Kempe and Ulrich S. Schubert, **Core cross-linked nanogels based on the self-assembly of double hydrophilic poly(2-oxazoline) block copolymers**, J. Mater. Chem. B, 2015, 3, 1748-1759, [Abstract](#)



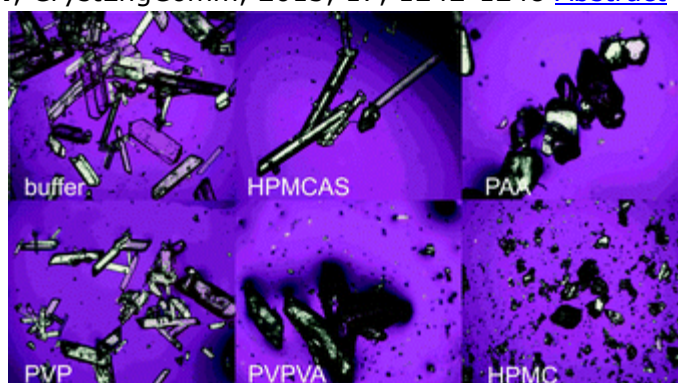
01.2015

Clément Brandel and Joop H. ter Horst, **Measuring induction times and crystal nucleation rates**, Faraday Discuss., 2015, Advance Article [Abstract](#)



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Niraj S. Trasi, Kaoutar Abbou Oucherif, James D. Litster and Lynne S. Taylor, **Evaluating the influence of polymers on nucleation and growth in supersaturated solutions of acetaminophen**, CrystEngComm, 2015, 17, 1242-1248 [Abstract](#)



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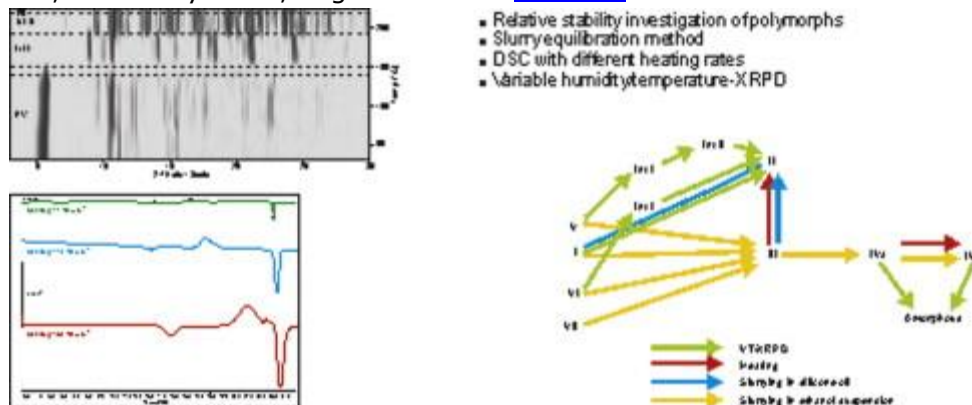
Jesper G. van Berkel, Nathanaël Guigo, Jeffrey J. Kolstad, Laszlo Sipos, Bing Wang, Matheus A. Dam and Nicolas Sbirrazzuoli, **Isothermal Crystallization Kinetics of Poly (Ethylene 2,5-Furandicarboxylate)**, Macromolecular Materials and Engineering Volume 300, Issue 4, pages 466-474, April 2015 [Abstract](#)



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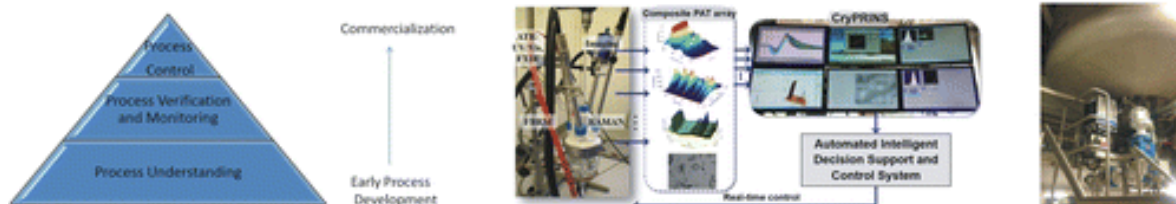
## Journals

P. Láng, E. Várkonyi, J. Ulrich, P. Szabó-Révész, Z. Aigner, **Analysis of the polymorph changes of a drug candidate**, Journal of Pharmaceutical and Biomedical Analysis, Volume 102, 5 January 2015, Pages 229–235 [Abstract](#)



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Levente L. Simon, Hajnalka Pataki, György Marosi, Fabian Meemken, Konrad Hungerbühler, Alfons Baiker, Srinivas Tummala, Brian Glennon, Martin Kuentz, Gerry Steele, Herman J. M. Kramer, James W. Rydzak, Zengping Chen, Julian Morris, Francois Kjell, Ravendra Singh, Rafiqul Gani, Krist V. Gernaey, Marjatta Louhi-Kultanen, John O'Reilly, Niklas Sandler, Osmo Antikainen, Jouko Yliruusi, Patrick Froberg, Joachim Ulrich, Richard D. Braatz, Tom Leyssens, Moritz von Stosch, Rui Oliveira, Reginald B. H. Tan, Huiquan Wu, Mansoor Khan, Des O'Grady, Anjan Pandey, Remko Westra, Emmanuel Delle-Case, Detlef Pape, Daniele Angelosante, Yannick Maret, Olivier Steiger, Miklós Lenner, Kaoutar Abbou-Oucherif, Zoltan K. Nagy, James D. Litster, Vamsi Krishna Kamaraju, and Min-Sen Chiuq, **Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review**, Org. Process Res. Dev. 2015, 19, 3–62, [Abstract](#)



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Michael Wagner, Christian Pietsch, Andreas Kerth, Anja Traeger, Ulrich S. Schubert, **Physicochemical characterization of the thermo-induced self-assembly of thermo-responsive PDMAEMA-*b*-PDEGMA copolymers**, J. Polym. Sci. Part A: Polym. Chem., 53: 924–935, [Abstract](#)



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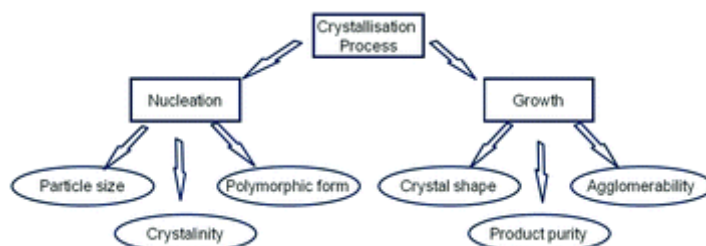
## Journals

K. E. Wittering, L. R. Agnew, A. R. Klapwijk, K. Robertson, A. J. P. Cousen, D. L. Cruickshank and C. C. Wilson, **Crystallisation and physicochemical property characterisation of conformationally-locked co-crystals of fenamic acid derivatives**, CrystEngComm, 2015,17, 3610-3618, [Abstract](#)



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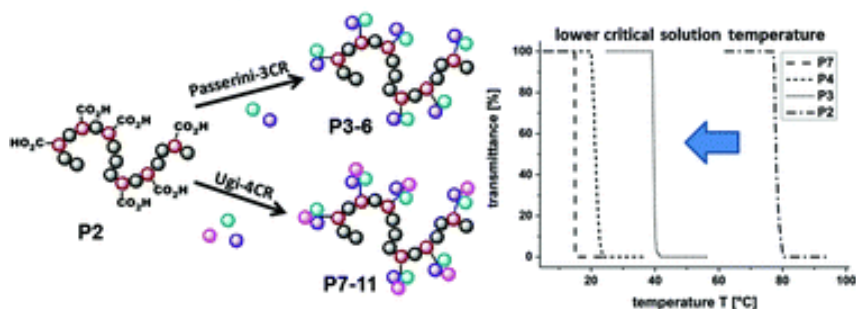
D. Toroz, I. Rosbottom, T. D. Turner, D. M. C. Corzo, R. B. Hammond, X. Lai and K. J. Roberts, **Towards an understanding of the nucleation of alpha-para amino benzoic acid from ethanolic solutions: a multi-scale approach**, Faraday Discuss., 2015, 179, 79-114, [Abstract](#)



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Ansgar Sehlinger, Bart Verbraeken, Michael A. R. Meier and Richard Hoogenboom, **Versatile side chain modification via isocyanide-based multicomponent reactions: tuning the LCST of poly(2-oxazoline)s**, Polym. Chem., 2015, Advance Article [Abstract](#)

Side chain modification of poly(2-oxazoline)s  
 via  
 isocyanide-based multicomponent reactions



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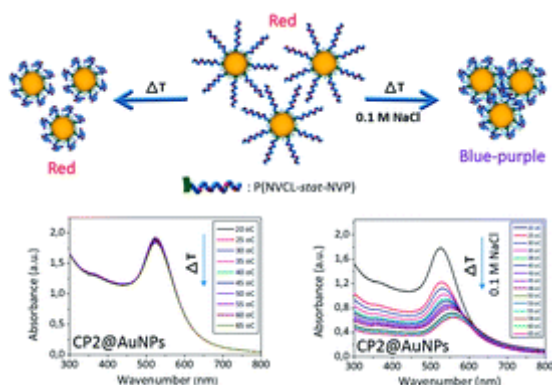
## Journals

Lenny Voorhaar, Kristof Van Hecke, Gertjan Vancoillie, Qilu Zhang, Richard Hoogenboom, **High-Throughput Synthesis of Thermoresponsive Poly(oligoethylene glycol acrylate) Copolymers by RAFT Polymerization**, ACS Symposium Series, Vol. 1188, Chapter 5, pp 63–77, [Abstract](#)



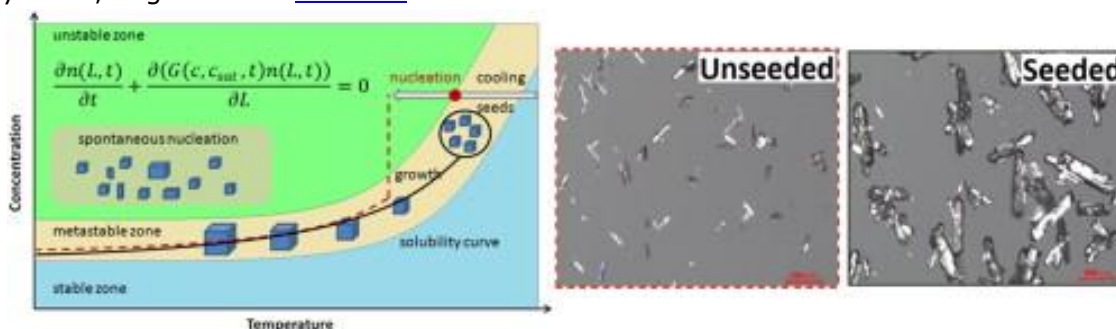
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Samarendra Maji, Zhiyue Zhang, Lenny Voorhaar, Sophie Pieters, Birgit Stubbe, Sandra Van Vlierberghe, Peter Dubrue, Bruno G. De Geest and Richard Hoogenboom, **Thermoresponsive polymer coated gold nanoparticles: from MADIX/RAFT copolymerization of N-vinylpyrrolidone and N-vinylcaprolactam to salt and temperature induced nanoparticle aggregation**, RSC Advances Issue 53, 2015, [Abstract](#)



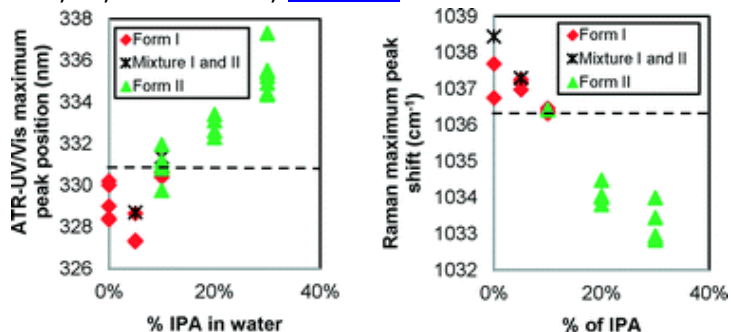
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Jan Holaňa, Luděk Ridvanb, Pascal Billotc, František Štěpánek, **Design of co-crystallization processes with regard to particle size distribution**, Volume 128, 25 May 2015, Pages 36–43 [Abstract](#)



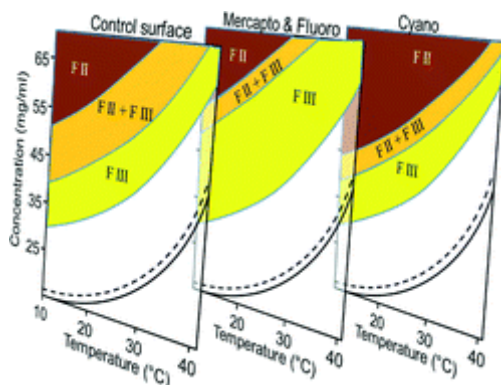
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E. Simone and Z. K. Nagy, **A link between the ATR-UV/Vis and Raman spectra of zwitterionic solutions and the polymorphic outcome in cooling crystallization**, CrystEngComm, 2015, 17, 6538-6547, [Abstract](#)



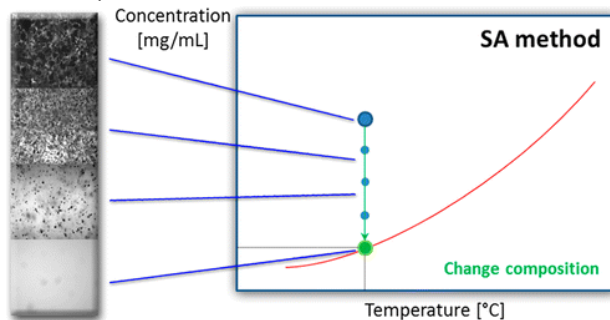
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Jose V. Parambil, Sendhil K. Poornachary, Steven J. Hinder, Reginald B. H. Tan and Jerry Y. Y. Heng, **Establishing template-induced polymorphic domains for API crystallisation: the case of carbamazepine**, CrystEngComm, 2015, 17, 6384-6392, [Abstract](#)



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Marloes A. Reus, Antoine E. D. M. van der Heijden, and Joop H. ter Horst, **Solubility Determination from Clear Points upon Solvent Addition**, Org. Process Res. Dev., 2015, 19 (8), pp 1004-1011, [Abstract](#)



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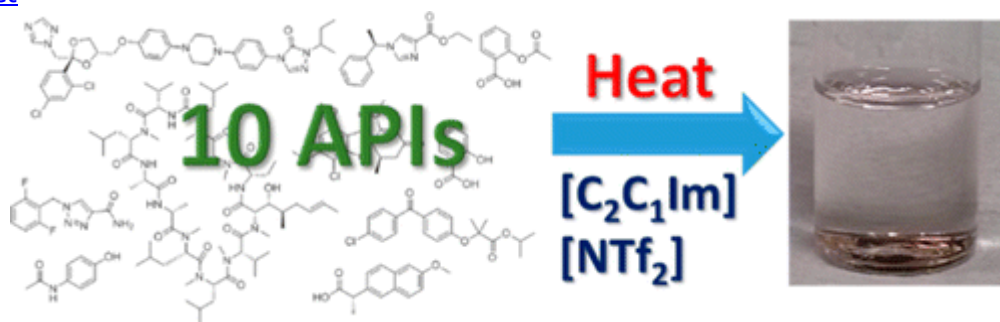
## Journals

I. V. Averianov, V. A. Korzhikov, T. B. Tennikova, **Synthesis of poly(lactic acid) and the formation of poly(lactic acid)-based supraporous biofunctional materials for tissue engineering**, Polymer Science Series B, July 2015, Volume 57, Issue 4, pp 336-348, [Abstract](#)



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Cameron C. Weber, Samir A. Kulkarni, Andreas J. Kunov-Kruse, Robin D. Rogers, and Allan S. Myerson, **The Use of Cooling Crystallization in an Ionic Liquid System for the Purification of Pharmaceuticals**, Cryst. Growth Des., 2015, 15 (10), pp 4946-4951, [Abstract](#)



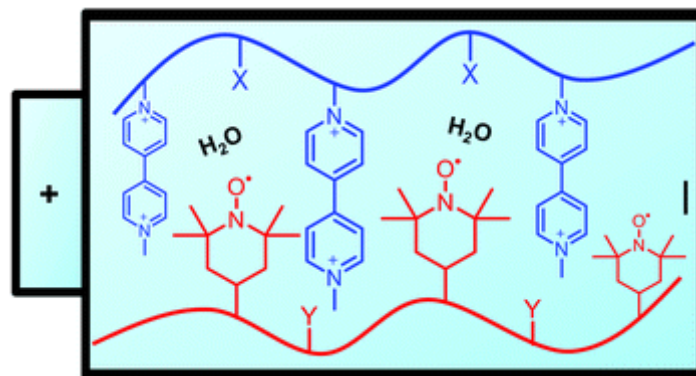
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Petra J. M. Bouten, Kathleen Lava, Jan C. M. van Hest, and Richard Hoogenboom, **Thermal Properties of Methyl Ester-Containing Poly(2-oxazoline)s**, Polymers 2015, 7(10), 1998-2008; [Abstract](#)



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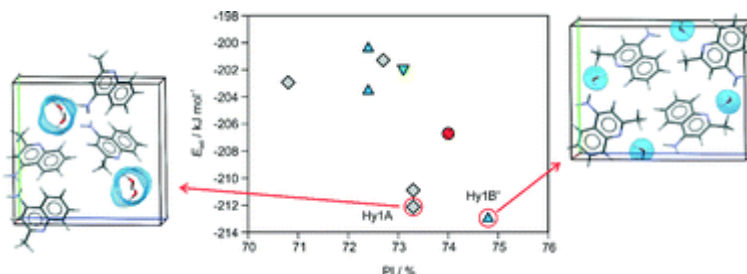
T. Janoschka, S. Morgenstern, H. Hiller, C. Friebe, K. Wolkersdörfer, B. Häupler, M. D. Hagera and U. S. Schubert, **Synthesis and characterization of TEMPO- and viologen-polymers for water-based redox-flow batteries**, Polym. Chem., 2015, 6, 7801-7811, [Abstract](#)



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Doris E. Braun, Herbert Oberacher, Kathrin Arnhard, Maria Orlova and Ulrich J. Griesser, **4-Aminoquinaldine monohydrate polymorphism: prediction and impurity aided discovery of a difficult to access stable form**, CrystEngComm, 2016, Advance Article, [Abstract](#)

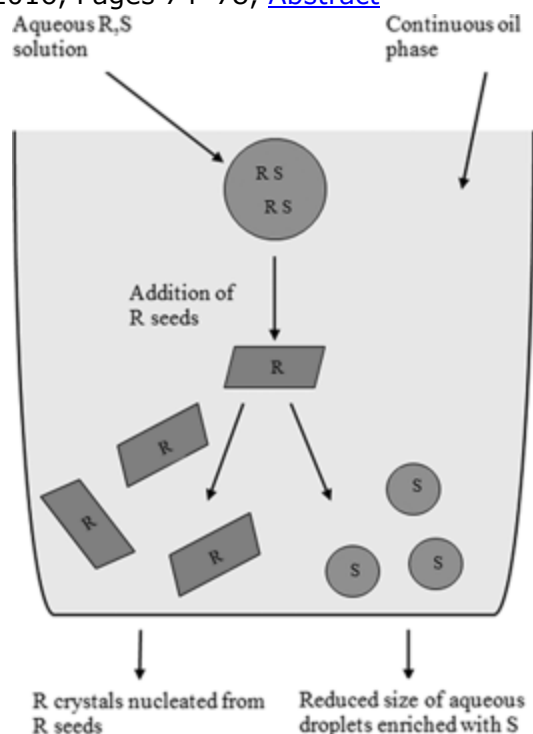


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**Solid forms of 1-ethyl-7-(2-methyl-6-(1*h*-1,2,4-triazol-3-yl)pyridin-3-yl)-3,4-dihydropyrazino[2,3-*b*]pyrazin-2(1*h*)-one, compositions thereof and methods of their use**, United States Patent Application 20150299209, [Abstract](#)

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Sara E. Gilks, Roger J. Davey, **Crystallisation from a Water-in-Oil Emulsion as a Route to Enantiomer Separation: The Case of *dl*-Threonine**, Chem. Eur. J., Volume 22, Issue 1, January 4, 2016, Pages 74–78, [Abstract](#)



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Christian von der Ehe, Alexandra Rinkenauer, Christine Weber, David Szamosvari, Michael Gottschaldt, and Ulrich S. Schubert, **Selective Uptake of a Fructose Glycopolymer Prepared by RAFT Polymerization into Human Breast Cancer Cells**, *Macromol. Biosci.*, 2015, doi: 10.1002/mabi.201500346, [Abstract](#)

