

Robert G Gilbert Publications

Books:

“Emulsion Polymerization: a Mechanistic Approach”. R.G. Gilbert. Academic Press, London, 1995; 362 pps.

“Theory of unimolecular and recombination reactions”. R.G. Gilbert and S.C. Smith. Blackwell Scientific Publications, Oxford, 1990; 364 pps.

Patents:

5. A process for reducing protein allergens in natural rubber latex and articles fabricated therefrom. GS Neon, K Vivayananthan, LP Fah, RG Gilbert. MY142012A (2010)

4. Aqueous dispersions of polymer particles. CH Such, E Rizzardo, AK Serelis, BS Hawckett, RG Gilbert, CJ Ferguson, RJ Hughes. PCT Int. Appl. (2003), WO 2003055919, 90 pp.

3. Finely divided polymer dispersions, their production and their use. S. Peach, B.R. Morrison, R.G. Gilbert. Ger. Offen. (2000), 10 pp. DE 19929395.

2. N. Subramaniam, R. Balic, R.G. Gilbert, Modified Rubber Polymer Latex, PCT/AU98/00191 (1998).

1. D.Kukulj, T.P.Davis, R.G.Gilbert. Polymerisation Reactions Under Miniemulsion Conditions. PCT PN6696 (1997)

Scientific Papers:

388. The importance of amylose and amylopectin fine structures for starch digestibility in cooked rice grains. ZA Syahariza, S Sar, J Hasjim, RG Gilbert. Submitted (2012)

387. Molecular structure of starch is altered in sorghum grown at high temperature. Insights into the events controlling starch biosynthesis in sorghum from structural changes induced by different growth temperatures. E Li, J Hasjim, V Singh, M Tizzotti, ID Godwin, RG Gilbert. Submitted (2012)

386. Modeling chain-length distributions to elucidate enzymatic processes in starch synthesis and degradation. AC Wu, RG Gilbert. Submitted (2012)

385. Alpha-particle bonding in glycogen and implications for diabetes. MA Sullivan, MJ O'Connor, F Umana, E Roura, RG Gilbert. Submitted (2012).

384. Household rice choice and consumption behavior across agro-climatic zones of Cambodia. S Sar, RG Gilbert, GC Marks. *J. Hunger & Environmental Nutrition* in press (accepted May 9) (2012).

383. The influence of macromolecular architecture on the critical micelle concentration of large hyperbranched emulsifiers. MJ Tizzotti, MC Sweedman, C Schäfer, RG Gilbert. Submitted.

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381. Amylose content in starches: towards optimal definition and validating experimental methods. F Vilaplana, J Hasjim, RG Gilbert. *Carbohydrate Polymers* **88** 103-11 (2012)

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378. Molecular structural differences between type-2-diabetic and healthy glycogen. MA Sullivan, J Li, C Li, F Vilaplana, D Stapleton, AA Gray-Weale, S Bowen, L Zheng, RG Gilbert. *Biomacromolecules* **12** 1983-6 (2011).
377. Analytical methodology for multidimensional size/branch-length distributions for branched glucose polymers using off-line 2-dimensional size-exclusion chromatography and enzymatic treatment. F Vilaplana, RG Gilbert. *J. Chromatography A* **1218** 4434-44 (2011).
376. Milling of rice grains: the degradation on three structural levels of starch can be independently controlled during grinding. TTB Tran, KJ Shelat, D Tang, E Li, RG Gilbert, J Hasjim. *J. Ag. Food Chem.* **59** 3964-73 (2011).
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370. In vivo and in vitro starch digestion: Are current in vitro techniques adequate? J Hasjim, G Cesbron-Lavau, MJ Gidley, RG Gilbert. *Biomacromolecules*, **11** 3600-8 (2010).
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349. Particle size distributions in electrosterically stabilized emulsion polymerization systems: testing the ‘mid-chain-radical’ hypothesis. SC Thickett, BR Morrison, RG Gilbert. *Macromolecules*, **41**, 3521-9 (2008).
348. General description of the structure of branched polymers. A Gray-Weale, RG Gilbert, *J. Polym. Sci. Part A Polymer Chem. Ed.* **49** 3914–30 (2009).
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