JSR Life Sciences

Papers related to N6-PEG = Blockmaster™ CE

1) Thangavel Lakshmipriya, Makoto Fujimaki, Subash C.B. Gopinath, Koichi Awazu, Yukichi Horiguchi and Yukio Nagasaki, High-performance waveguide-mode biosensor for detection of Factor IX uses PEG-based blocking agents to suppress non-specific binding and improve sensitivity, ***Analyst***, in press (DOI:10.1039/C3AN00298E)

2) Xiaofei Yuan, Dolça Fabregat, Keitaro Yoshimoto and Yukio Nagasaki, High PEGylation Efficiency of Pentaethylenehexamine-end Poly(ethyleneglycol) (mPEG-N6) for Active-ester Surface, ***Colloid and Surface B: Biointerface***, 92, 25-29 (2012) 'doi: 10.1016/j.colsurfb.2011.11.013)

3) Xiaofei Yuan, Dolca Fabregat, Keitaro Yoshimoto and Yukio Nagasaki: Development of a high-performance immunolatex based on "soft landing" antibody immobilization mechanism, ***Colloid and Surface B: Biointreface***, Vol. 9945-52(2012)(10.1016/j.colsurfb.2011.09.040)

4) Masaki Kubota, Keitaro Yoshimoto, Yuan Xiaofei, Yukio Nagasaki: Improvement of the thermal stability of streptavidin immobilized on magnetic beads by the construction of a mixed poly(ethylene glycol) tethered-chain layer, ***Polymer Journal***, 43, 493-496 (2011).

5) Xiaofei Yuan, Dolça Fabregat, Keitaro Yoshimoto ,Yukio Nagasaki, Design of Highly Functional Antiferritin-Immunolatex by Hybridization of Antiferritin/Mixed-PEG Polymers onto Polystyrene Submicroparticles, Biomaterials Chapter 13, pp 243–258 ACS Symposium Series, Vol. 1054 (2010)

6) Yuan Xiaofei, Fabregat Dolca, Yoshimoto Keitaro, Nagasaki Yukio: Efficient Inhibition of Interfacial Nonspecific Interaction to Create Practically Utilizable High Ferritin-Response Immunolatex, Analytical Chemistry, 81 10097-10105 (2009).

7) Yuan Xiaofei, Yoshimoto Keitaro, Nagasaki Yukio: High-performance Immunolatex Possessing A Mixed-PEG/Antibody Co-immobilized Surface: High Sensitive Ferritin Immunodiagnostics. Analytical Chemistry: 81(4),1549-1556(2009).

8) Furusho Hitoshi, Kitano Katsuhisa, Hamaguchi Satoshi, Nagasaki Yukio: Preparation of Stable Water-Dispersible PEGylated Gold Nanoparticles Assisted by Nonequilibrium Atmospheric-Pressure Plasma Jets. Chemistry of Materials:21(15).3526-3535 (2009).

9) Nagasaki Yukio, Kobayashi Hiroshi, Katsuyama Yoshinori, Jomura Tomoko, Sakura Takeshi: Enhanced immunoresponse of antibody/mixed-PEG co-immobilized surface construction of high-performance immunomagnetic ELISA system. Journal of Colloid and Interface Science 309: 524-530 (2007).