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## Applied Polymer

Jalma Klein, Vanessa S. Lima, José M. C. Feira, Rosmary N. Brandalise and Maria M. C. Forte investigate the flocculation efficiency of cashew gum grafted polyacrylamide copolymers using an aqueous kaolin suspension. In acidic medium, the protonated amide nitrogen enhances the interaction with negatively charged particles to produce large agglomerates. The destabilization of kaolin particles is due to charge neutralization that reduces the potential energy of repulsion between adjacent colloidal particles. The cover depicts kaolin particles attached to the electrolyte graft copolymer, where the yellow particles correspond to kaolin. (DOI: 10.1002/app.43634)



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## **RESEARCH ARTICLES**

- **43634** Chemical modification of cashew gum with acrylamide using an ultrasound-assisted method J. M. KLEIN, V. S. DE LIMA, J. M. C. DA FEIRA, R. N. BRANDALISE AND M. M. DE C. FORTE *Published online 4 April 2016*
- **43700** High-performance PDMS membranes for pervaporative removal of VOCs from water: The role of alkyl grafting H. ZHOU, Y. SU, X. CHEN, J. LUO AND Y. WAN *Published online 28 April 2016*
- 43708 Anisotropy of the elastic modulus for hybrid composites reinforced by short fibers and particles with respect to material porosity H.-L. DAI, C. MEI AND Y.-N. RAO

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43710 Chitosan from Muga silkworms (Antheraea assamensis) and its influence on thermal degradation behavior of poly(lactic acid) based biocomposite films

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43719 Thin film composite forward osmosis membranes with poly(2-hydroxyethyl methacrylate) grafted nano-TiO<sub>2</sub> as additive in substrate

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43727 Polyimide fibers prepared by a dry-spinning process: Enhanced mechanical properties of fibers containing biphenyl units

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43728 Effect of ionic liquids on the structural, thermal, and *in vitro* degradation properties of poly(ε-caprolactone) synthesized in the presence of Candida antarctica lipase B
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- **43735** Morphology evolution of a thermotropic liquid-crystalline polymer in a polyamide 6,6 matrix regulated by graphene M. WANG, Y. XIN, C. SU, F. XUE, F. XU AND T. LI *Published online 30 April 2016*
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43737 Characteristics of polyurethane adhesives with various uretonimine contents in isocyanate and average alcohol functionalities

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- 43738 Influence of processing condition and carbon nanotube on mechanical properties of injection molded multi-walled carbon nanotube/poly(methyl methacrylate) nanocomposites

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- 43751 Interfacial evaluation of epoxy/carbon nanofiber nanocomposite reinforced with glycidyl methacrylate treated UHMWPE fiber

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