

NU  
C70/1

Kolloid-Zeitschrift  
und Zeitschrift für  
Polymere

Official Journal  
of the  
Kolloid-Gesellschaft

EDITORS

F. Kremer  
W. Richtering

# Colloid and Polymer Science

# Colloid and Polymer Science

Volume 291 · Number 11 · November 2013

## ORIGINAL CONTRIBUTIONS

Associative and segregative phase behaviour in mixtures of poly(*N*-*tert*-butylacrylamide) and poly(*N,N*-diethylacrylamide) with poly(4-vinylphenol): effect of solvent and concentration  
L. Ruiz-Rubio · J.R. Marin · D. Patrocinio · J.M. Laza · M. Rodríguez · M.T. Garay 2495

Poly( $\epsilon$ -caprolactone) and cellulose ester hybrid nanoparticles via miniemulsion polymerization  
A. Chemtob · J.M. Asua 2503

Synthesis of Mg<sub>2</sub>Al-Cl layered double hydroxide nanosheets in a surfactant-free reverse microemulsion  
J. Xu · L. Zhang · D. Li · J. Zhao · W. Hou 2515

Poly(*N*-isopropylacrylamide-co-*N*-*t*-butylacrylamide)-block-poly(ethylene glycol)-block-poly(*N*-isopropylacrylamide-co-*N*-*t*-butylacrylamide) triblock copolymers: synthesis and thermogelation properties of aqueous solutions  
I. Negru · M. Teodorescu · P.O. Stănescu · C. Drăghici · A. Lungu · A. Sărbu 2523

Controllable synthesis of  $\beta$ -NaYF<sub>4</sub>:Yb,Er nanorods by potassium oleate as ligand  
Q. Tian · K. Tao · Z. Zhang · K. Sun 2533

Crystallization of a polyamide 11/organo-modified montmorillonite nanocomposite at rapid cooling  
I. Kolesov · R. Androsch · D. Mileva · W. Lebek · A. Benhamida · M. Kaci · W. Focke 2541

Polyampholyte-tuned lyotropic lamellar liquid crystalline systems  
N. Schulze · B. Tiersch · I. Zenke · J. Koetz 2551

Multicompartment micelles from silicone-based triphilic block copolymers  
J.-N. Marsat · F. Stahlhut · A. Laschewsky · H.v. Berlepsch · C. Böttcher 2561

Cationic gel crystals of lightly cross-linked poly(2-vinylpyridine) spheres (170~180 nm in diameter) in the deionized aqueous suspension  
T. Okubo · S. Fujii · K. Aono · Y. Nakamura 2569

Sonochemical activation calcium sulfate whisker with enhanced beta-nucleating ability for isotactic polypropylene  
J. Qin · W. Shi · H. Yang · J. Liu · J. Yu · Q. Lv · Y. Tian 2579

Ni-Zn ferrite-loaded superparamagnetic amorphous carbon nanotubes through a facile route  
K. Bhattacharjee · S. Maity · G.C. Das · K.K. Chattopadhyay 2589

Inclusional association as studied by the drying dissipative structure. Part 3. Drying pattern of aqueous mixtures of  $\beta$ -cyclodextrin and *n*-alkyltrimethylammonium bromide  
T. Okubo 2599

Polymeric stabilization of hybrid nanocomposites: a comparison between in situ and ex situ-grown CuInS<sub>2</sub> in poly(3-hexylthiophene) polymer  
A. Kharkwal · S.N. Sharma · K. Jain · L. Arora · P. Chawla · A.K. Singh · S. Chand 2607

For continuation of table of contents, see inside of back cover

Further Articles can be found at [link.springer.com](http://link.springer.com)

Indexed in/abstracted by *Science Citation Index*, *Science Citation Index Expanded (SciSearch)*, *Journal Citation Reports/Science Edition*, *SCOPUS*, *INSPEC*, *EMBASE*, *Chemical Abstracts Service (CAS)*, *Google Scholar*, *EBSCO*, *Academic OneFile*, *AGRICOLA*, *CEABA-VB*, *Chemistry Citation Index*, *ChemWeb*, *Chimica*, *Current Abstracts*, *Current Contents/Physical, Chemical and Earth Sciences*, *Ei-Compendex*, *Gale*, *GeoRef*, *Index Copernicus*, *INIS Atomindex*, *International Bibliography of Book Reviews (IBR)*, *International Bibliography of Periodical Literature (IBZ)*, *Materials Science Citation Index*, *OCLC*, *PASCAL*, *Polymer Library*, *Reaction Citation Index*, *SCIImago*, *Summon by Serial Solutions*, *VINITI - Russian Academy of Science*

Instructions for Authors for *Colloid Polym Sci* are available at [www.springer.com/396](http://www.springer.com/396)

# Colloid and Polymer Science

Volume 291 · Number 11 · November 2013 (Continuation)

**Amphiphilicity and self-assembly of multi-walled carbon nanotubes grafted with polystyrene in different molecular weight**  
Y. Liu · G.-J. Wang · Y.-J. Wu 2619

**Synthesis and properties of multifunctional poly(amic acid) with oligoaniline and fluorene groups**  
D. Chao · S. Wang · R. Yang · E.B. Berda · C. Wang 2631

**Light-responsive drug carrier vesicles assembled by cinnamic acid-based peptide**  
S. Li · T. Sun · X. Yang · B. Wang · P. Xing · Y. Hou · J. Su · A. Hao 2639

**Temperature effect on the surface phase transitions of monolayer films of C<sub>12</sub>E<sub>1</sub> at air/water interface**  
S.K. Mehta · Y. Imai · H. Takumi · K. Shibata · H. Sakamoto · T. Takiue · H. Matsubara · M. Aratono 2647

**Synthesis and self-assembly behaviors of well-defined poly (lauryl methacrylate)-block-poly[*N*-(2-methacryloyloxyethyl)pyrrolidone] copolymers**  
J. Zhang · M. Zou · J. Dong · X. Li 2653

**Thermodynamic studies on thin liquid films. V. General formulation for spherical films**  
H. Iyota 2663

**Multistimuli-responsive hydrogels of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) containing graphene**  
V. Alzari · D. Nuvoli · R. Sanna · L. Peponi · M. Piccinini · S.B. Bon · S. Marceddu · L. Valentini · J.M. Kenny · A. Mariani 2681

**A simple strategy for detecting synthetic polymers on solid surfaces using liquid crystal**  
G.-R. Han · C.-H. Jang 2689

## SHORT COMMUNICATIONS

**One-step synthesis of silica hollow particles in a W/O inverse emulsion**  
W. Hu · H. Gu · J. Wang · Y. Li · Z. Wang 2697

**Ellipsometric investigations of Fe<sup>3+</sup>-doped polyvinyl alcohol films**  
N. Khalifa · B. Yacoubi · I. Attar · A. Bardaoui · R. Chtourou 2705

**One-step fabrication of ZIF-8/polymer composite spheres by a phase inversion method for gas adsorption**  
L. Li · J. Yao · P. Xiao · J. Shang · Y. Feng · P.A. Webley · H. Wang 2711

**Strain- and temperature-induced polymorphism of poly (dimethylsiloxane)**  
M. Tosaka · M. Noda · K. Ito · K. Senoo · K. Aoyama · N. Ohta 2719

**Wetting behavior of pulmonary surfactant aqueous solutions**  
L. Alexandrova · M. Nedyalkov · D. Platikanov · R. Razzetti · F. Bianco 2725

**Giant vesicles prepared by nitroxide-mediated photo-controlled/living radical polymerization-induced self-assembly**  
E. Yoshida 2733

**Synthesis of nearly micron-sized particles by soap-free emulsion polymerization of methacrylic monomer using an oil-soluble initiator**  
T. Yamamoto 2741