e-POLYMERS

DE GRUYTER

e-Polymers is a strictly peer-reviewed scientific journal. The aim of *e-Polymers* is to publish pure and applied polymer-science-related original research articles, reviews, and feature articles. It includes synthetic methodologies, characterization, and processing techniques for polymer materials. Reports on interdisciplinary polymer science and on applications of polymers in all areas are welcome.

ABSTRACTED/INDEXED IN Baidu Scholar · Cabell's Directory · Celdes · Chemical Abstracts Service (CAS): CAplus; SciFinder · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC · EBSCO (relevant databases) · EBSCO Discovery Service · Electronic Journals Library · Elsevier: Compendex; Engineering Village; Reaxys; SCOPUS · Gale/Cengage · Genamics JournalSeek · Google Scholar · J-Gate · JournalTOCs · KESLI-NDSL (Korean National Discovery for Science Leaders) · Naviga (Softweco) · Polymer Library · Primo Central (ExLibris) · ProQuest (relevant databases) · ReadCube · ResearchGate · SCImago (SJR) · Sherpa/RoMEO · Summon (Serials Solutions/ProQuest) · TDNet · TEMA Technik und Management · Thomson Reuters: Current Contents/Physical, Chemical and Earth Sciences; Science Citation Index; Science Citation Index Expanded · Ulrich's Periodicals Directory/ulrichsweb · WanFang Data · WorldCat (OCLC)

ISSN 2197-4586 · e-ISSN 1618-7229

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/journals/epoly

RESPONSIBLE EDITORS Prof. Dr. Seema Agarwal, Chair of Macromolecular Science II, University of Bayreuth, Building NW II, Universitätsstraße 30, 95440 Bayreuth, Tel.: +49-921-553397, Email agarwal@uni-bayreuth.de
Prof. Dr. Andreas Greiner, Chair of Macromolecular Science II, University of Bayreuth, Building NW II, Universitätsstraße 30, 95440 Bayreuth, Tel.: +49-921-553399, Email greiner@uni-bayreuth.de

JOURNAL MANAGER Holger Kleeßen, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-348, Fax: +49 (0)30 260 05-184, Email: epolymers.editorial@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-264, Email: anzeigen@degruyter.com

TYPESETTING Compuscript Ltd., Shannon, Ireland

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim
Printed in Germany

COVER ILLUSTRATION A cross-linked microfibrous anion exchange membrane with high ion permselectivity and robust mechanical properties was fabricated by electrospinning. Copolymer, poly N,N-dimethylaminoethyl methacrylate (DMAEMA)-co- 2-hydroxyethyl methacrylate (HEMA), was selected as the electrospun material. FTIR, ^{1}HNMR and SEM were employed to characterize the copolymer and microfibrous mat. The electrospinning optimal parameters were determined by orthogonal experiments. Formaldehyde vapor was applied to crosslink the mat. It was observed that the water sorption decreased from 75.7% to 30.4% as the crosslinking time increased from 20 h to 32 h. The robust mat with the high tensile strength of 4.62 MPa and 50% elongation at break was obtained at 24hr. The ion permeability of NO_3^-, Cl^-, SO_4^{2-} were 94, 91 and 87%.
For more information on this topic please read the article on "Preparation of Poly(DMAEMA-co-HEMA) self-supporting microfiltration membrane with high anionic permselectivity by electrospinning" by Henmei Ni, Yadong Yang, Yixuan Chen, Junxiu Liu, Lijuan Zhang, Min Wu on pages 149–157 of this issue. Copyright holders of the image are the authors of this article.

Contents

Full length articles