

Publications

Books

1. Shahriar Hojjati Emami. Polyethylene Oxide Hydrogels: Synthesis and Characterization. VDM Verlag (German Publisher), 2008.

Patents/Innovations

1. Shahriar Hojjati Emami and Ronald Salovey. Crosslink Polyethylene Oxide in the Melt by Means of 2,5-bis(tert-Butylperoxy)-2,5-Dimethylhexane. U.S. Patent. 6,482,870, November 19, 2002.
2. Shahriar H. Emami. A Useful Consumer Product. U.S. Patent. 6,178,793, January 30, 2001.

Journal Publications

1. Rana Imani, Shahriar Hojjati Emami, Parisa Rahnema Moshtag, Nafiseh Baheiraei and Ali Mohammad Sharifi. Preparation and Characterization of Agarose-Gelatin Blend Hydrogels as a Cell Encapsulation Matrix: An In-Vitro Study. Journal of Macromolecular Science Part B: Physics. Accepted.
2. Shahriar Hojjati Emami, Zahra Hassannejad Pirbasti, Mohammad Mahdi Hasani-Sadrabadi and Soheila Salahshor Kordestani. The Effect of Isopropanol Addition on Enhancement of Transdermal Controlled Release of Ibuprofen from Ethylene Vinyl Acetate Copolymer Membranes. Journal of Applied Polymer Science, 122, 5, 3048 (2011).
3. A. Timnak, F. Yousefi Ghaebaghi, R. Pajoum Shariati, S. H. Bahrami, S. Javadian, S.H. Hojjati Emami and M. A. Shokrgozar. Fabrication of Nano-Structured Electrospun Collagen Scaffold intended for nerve Tissue Engineering. Journal of Materials Science: Materials in Medicine, 22, 6, 1555, (2011).
4. Javad Jafari, Shahriar Hojjati Emami, Ali Samadikuchksaraei, Mohammad Ali Bahar, Fazel Gorjipour. Electrospun Chitosan-Gelatin Nanofibrous Scaffold: Fabrication and in Vitro Evaluation. Bio-Medical Materials and Engineering, 21, 2, 99 (2011).
5. Maryam Kabiri, Shahriar Hojjati Emami, Mohammad Rafienia and Mohammadreza Tahriri. Preparation and Characterization of Absorbable Hemostat Crosslinked Gelatin Sponges for Surgical Applications. Current Applied Physics, 11, 457 (2011).
6. Shahriar Hojjati Emami, Ali Moradi Ahmad Abad, Shahin Bonakdar, Mohammad Reza Tahriri, Ali Samadikuchaksarae and Mohammad Ali Bahar. Preparation and Evaluation of Chitosan-Gelatin Composite Scaffolds Modified with Chondroitin-6-Sulphate. International Journal of Materials Research, 10, 1281, (2010).
7. Shahin Bonakdar, Shahriar Hojjati Emami, Mohammad Ali Shokrgozar, Afshin Farhadi, Seyed Amir Hoshidar Ahmadi and Amir Amanzadeh. Preparation and Characterization of Polyvinyl Alcohol Hydrogels Crosslinked by Biodegradable Polyurethane for Tissue Engineering of Cartilage. Materials Science & Engineering C, 30, 636 (2010).
8. Mohammad Rafienia, Shahriar Hojjati Emami, Hamid Mirzadeh, Ahmad Jamshidi and Hamid Mobedi. Influence of Poly (lactide-co-glycolide) Type and Gamma Irradiation on the Bethamethasone Acetate Release from the *In Situ* Forming Systems. Current Drug Delivery, 6, 2, 184 (2009).
9. Shahriar H. Emami, Fariba Orang, Morteza Mahmodi and Mohammad Rafienia. A Study of Starch Addition on Burst Effect and Diameter of Polyurethane Microspheres Containing Theophylline. Polymers for Advanced Technologies, 19, 3, 167 (2008).

10. M.M. Hasani-Sadrabadi, Shahriar H. Emami and Homayoun Moaddel. Preparation and Characterization of Nanocomposite Membranes Made of Poly (2,6-Dimethyl-1,4-Phenylene Oxide) and Montmorillonite for Direct Methanol Fuel Cells. *Power Sources*, 183, 2, 551 (2008).
11. M. M. Hasani-Sadrabadi, Shahriar H. Emami, Reza Ghaffarian and Homayoun Moaddel. Nanocomposite Membranes Made from Sulfonated Poly (Ether Ether Ketone) and Montmorillonite Clay for Fuel Cells Applications. *Energy & Fuels*, 22, 4, 2539 (2008).
12. Shahriar H. Emami and Muhammad Arshad S. Chaudhry. Self-Renewal and Proliferation of Murine Embryonic Stem Cells: A Study of Glycosaminoglycans Effect on Feeder Free Culture. *Journal of Bioactive and Compatible Polymers*, 22, 3, 314 (2007).
13. Hamed Arami, Mahyar Mazloumi, Razieh Khalifehzadeh, Shahriar H. Emami and S. K. Sadrezaad. Polypyrrole/multiwall Carbon Nanotube Nanocomposites Electropolymerized on Copper Substrate. *Materials Letters*, 61, 4412 (2007).
14. Mohammad Rafinia, Fariba Orang and Shahriar H. Emami. Preparation and Characterization of Polyurethane Microspheres Containing Theophylline. *Journal of Bioactive and Compatible Polymers*, 21, 4, 341 (2006).
15. Raminch E. Shariatpanahi, Fariba Orang, Shahriar H. Emami and Tagi Naime. Cell Growth on Tissue Engineering Scaffolds Prepared Through Gamma Irradiation Grafting of N-vinyl-2-pyrrolidone into Polyvinyl Alcohol. *Journal of Biomaterials Science, Polymer Edition*, 17, 6, 659 (2006).
16. Shahriar Hojjati Emami, Ronald Salovey and Thico E. Hogen-Esch. Degradable Poly(ethylene Oxide) Hydrogel Formed by Crosslinking Through *tert*-Butyl Peroxybenzoate. *Journal of Polymer Science : Polymer Chemistry Edition*, 41, 4, 520 (2003).
17. Shahriar Hojjati Emami and R. Salovey. Crosslinked Polyethylene Oxide Hydrogels. *Journal of Applied Polymer Science*, 88, 6, 1451 (2003).
18. Shahriar Hojjati Emami, R. Salovey and Thico E. Hogen-Esch. Peroxide Mediated Crosslinking of Polyethylene Oxide. *Journal of Polymer Science: Polymer Chemistry Edition*, 40, 17, 3021 (2002).
19. M. Faezipour and S. H. Emami. Production Method of Acetate Cellulose from Alpha Cellulose. *Journal of Natural Resources, University of Tehran Press*, (1998).
20. S. H. Emami and M. Faezipour. Viscose Rayon Production from Spruce Kraft Pulp. *Journal of Natural Resources, University of Tehran Press*, (1996).