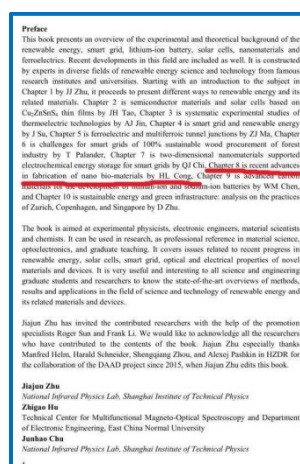
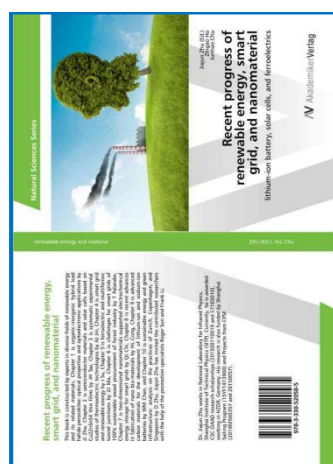
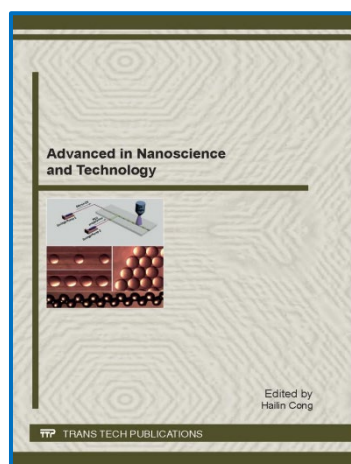
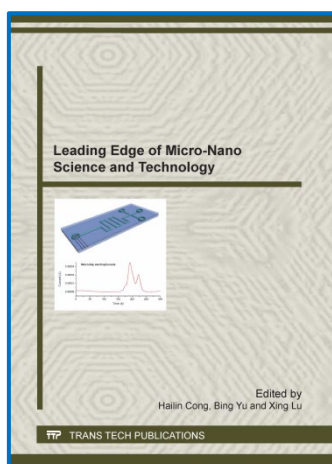
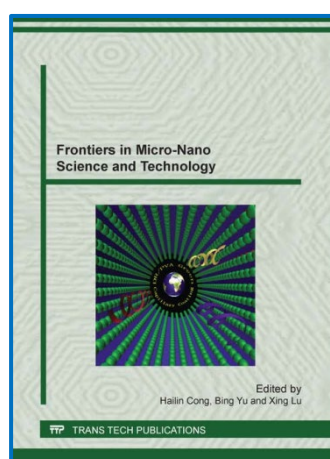
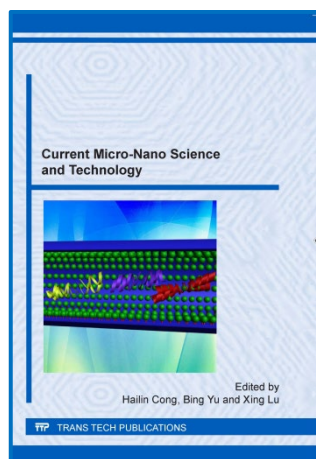
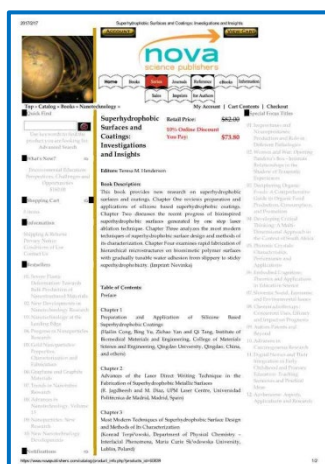


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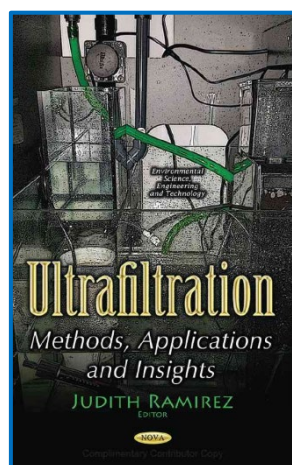
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1	Hailin Cong, Bing Yu, Xin Chen, Ming Chi, Peng Liu, Mingming Jiao	Chapter 1: Preparation and application of photosensitive capillary electrophoresis coatings, in Christian Reed (Ed), Capillary Electrophoresis (CE): Principles, Challenges and Applications, Nova Science Publishers, 2015, New York, USA, ISBN: 978-1-63483-122-2.
2	Hailin Cong, Bing Yu, Xiaodan Xu, Xin Chen, Hua Yuan	Chapter 1: Preparation and application of photosensitive polyethylene glycol in micro-nanofabrication, in Joyce Williams (Ed), Polyethers and Polyethylene Glycol: Characterization, Properties and Applications, Nova Science Publishers, 2015, New York, USA, ISBN: 978-1-63483-417-9.
3	Hailin Cong, Bing Yu, Hongbo Zhang, Xin Chen, Xiulan Zhang	Polyphenylene oxide nanocomposite membranes for CO ₂ separation, in Jonathan Albo Sanchez (Ed), Carbon Dioxide Capture: Processes, Technology and Environmental Implications, Nova Science Publishers, 2016, New York, USA, ISBN: 978-1-63485-321-7.
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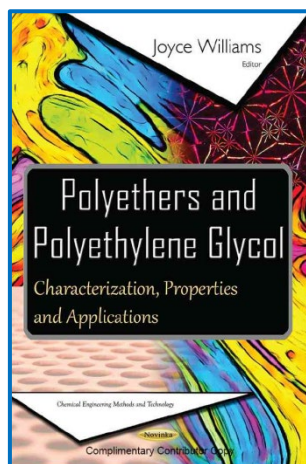




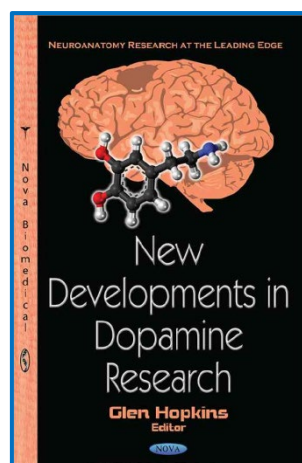
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PREPARATION AND APPLICATIONS OF THE HOLLOW FIBER ULTRAFILTRATION MEMBRANE	
<i>Bing Yu^{1,2}, Hailin Cong^{1,2}, Yue Yu¹ and Qi Tang¹</i>	
¹ Institute of Biomedical Materials and Engineering, College of Materials Science and Engineering, Qingdao University, Qingdao, China	
² Laboratory for New Fibre Materials and Modern Textile Growing Base for State Key Laboratory, College of Chemistry and Chemical Engineering, Qingdao University, Qingdao, China	
ABSTRACT	
Hollow fiber ultrafiltration membrane separation technology is one of the mature-developed membrane technologies, which has wide application and high localization rate. During the last three decades, the industry witnessed a rapid development of hollow fiber membrane separation technology; and this technology brings a lot benefits to the world. The hollow fiber ultrafiltration membrane has good separation capability for a low high space utilization factor and large surface area. At present, ultrafiltration technology has been widely used in many fields such as water purification, chemical separation, pharmaceutical production, food processing, wastewater treatment, etc. The research on ultrafiltration membrane separation technology includes the following sections. First of all is the development of membrane material. It is necessary to select proper material among a variety of polymer	



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Chapter 1	
PREPARATION AND APPLICATION OF PHOTOSENSITIVE POLYETHYLENE GLYCOL IN MICRO-NANOFABRICATION	
<i>Hailin Cong^{1,2}, Bing Yu^{1,2}, Xiaodan Xu¹, Xin Chen¹ and Hua Yuan¹</i>	
¹ College of Chemical Engineering, Qingdao University, Qingdao, China	
² Laboratory for New Fibre Materials and Modern Textile Growing Base for State Key Laboratory, Qingdao University, Qingdao, China	
ABSTRACT	
Photosensitive polyethylene glycol (PEG) which is obtained through modification of PEG has been in use for a few decades and is well established among many fields. Modified PEG is known for its longer chains, better solubility, contemporary release irreversibility, compared to virus proteolytic degradation and reduce immunogenicity. Due to having excellent anti-protein-fouling property and biocompatibility, the research on PEG has surprisingly blossomed during recent decades, and many practical micro-nano materials and devices based on photosensitive PEG with potential applications in drug delivery, protein	



In: New Developments in Dopamine Research ISBN: 978-1-63484-789-6
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Chapter 1

ELECTROCHEMICAL DETECTION OF DOPAMINE USING CARBON NANOMATERIAL BASED ELECTRODES

Hailin Cong^{1,2,*}, Bing Yu^{1,2,*}, Xulan Zhang¹ and Shuang Yang²

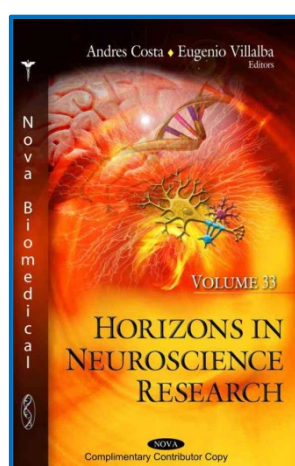
¹College of Material Science and Engineering, Qingdao University, Qingdao 266071, China
²Laboratory for New Fiber Materials and Modern Textile, Growing Base for State Key Laboratory, Qingdao University, China

ABSTRACT

Dopamine is an important neurotransmitter in human brain, and it is involved in many activities under physiological and pathological conditions of human and animals, especially in the sports regulation, learning and memory, as well as drug addiction plays a key role. Lack of dopamine will lead to a number of important diseases, such as schizophrenia, depression, Parkinson's disease, so the studies of dopamine are of great importance in many areas such as disciplines: neurophysiology, clinical medicine, pharmaceutical science. In recent years, more and more researchers have focused on the detection of dopamine and many different types of testing methods have emerged.

*Corresponding author: hailincong@163.com, yobingyu@163.com
E-mail: yobingyu@163.com

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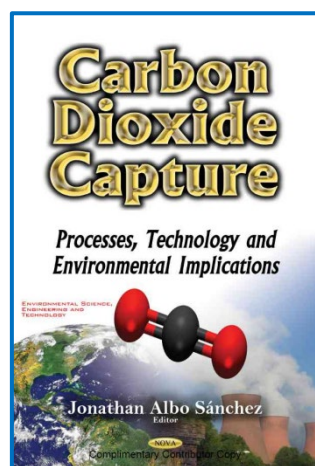
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Chapter 8

POLYPHENYLENE OXIDE NANOCOMPOSITE MEMBRANES FOR CARBON DIOXIDE SEPARATION

Hailin Cong¹, Bing Yu, Hongbo Zhang, Xin Chen and Xulan Zhang
Qingdao University, China

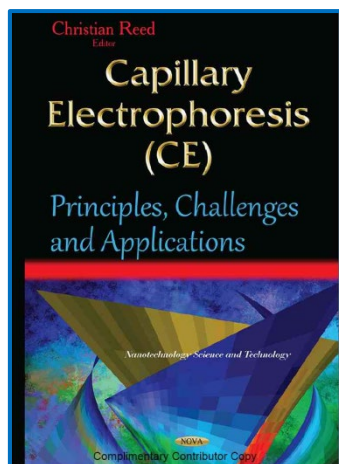
ABSTRACT

Carbon dioxide (CO₂) capture and separation is important for environment, energy and chemical industries. There are mainly absorption, adsorption, membranes and membrane separation methods. Polymeric membrane separation has attracted more and more attention because it is a green technology and there is no phase change in the absorption process and other advantages. Poly(phenylene oxide) (PPO) membranes are an important material for its high gas permeability, particularly CO₂. Many modified methods have been used to enhance PPO membrane separation, but it is difficult to enhance permeability and selectivity at the same time by chemical modification because there is a trade-off between permeability and selectivity. However, fillers such as nanoparticles may enhance the gas separation performance of polymeric membranes. The resulting poly(phenylene oxide) nanocomposite membranes may substantially improve permeability without decreasing the selectivity. In this chapter, we give a systematic, relevant and comprehensive summary of the state-of-the-art of PPO nanocomposite membranes for CO₂ separation.

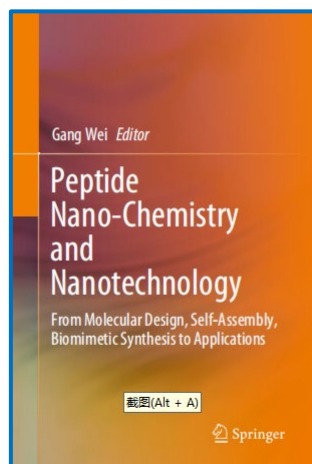
Keywords: CO₂ separation, nanocomposites, poly(phenylene oxide), membranes

*Corresponding author: College of Material Science and Engineering, Qingdao University, Haiguo Road, Qingdao, China, Email: hailincong@163.com

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