

# KEY TITLE

## Responsive Membranes and Materials

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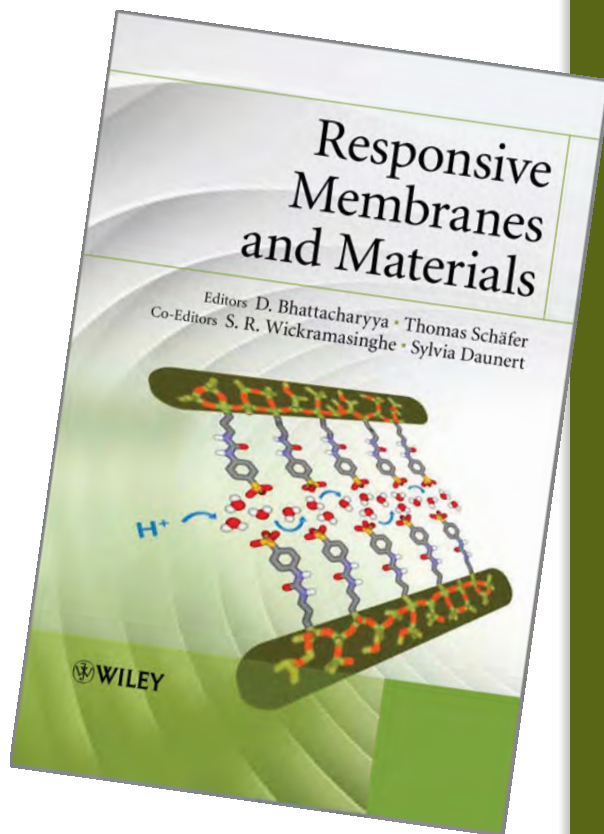
The development of new multi-functional membranes and materials which respond to external stimuli, such as pH, temperature, light, biochemicals or magnetic or electrical signals, represents new approaches to separations, reactions, or recognitions. With multiple cooperative functions, responsive membranes and materials have applications which range from biopharmaceutical, to drug delivery systems to water treatment.

This book covers recent advances in the generation and application of responsive materials and includes:

- Development and design of responsive membranes and materials
- Carbon nanotube membranes
- Tunable separations, reactions and nanoparticle synthesis
- Responsive membranes for water treatment
- Pore-filled membranes for drug release
- Biologically-inspired responsive materials and hydrogels
- Biomimetic polymer gels

*Responsive Membranes and Materials* provides a cutting-edge resource for researchers and scientists in membrane science and technology, as well as specialists in separations, biomaterials, bionanotechnology, drug delivery, polymers, and functional materials.

**Hardcover | 432 Pages | December 2012 | ISBN: 978-0-470-97430-8  
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