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Paper 1

4024/12

May/June 2014

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4024 M J 09

**D. Bhattacharyya, Thomas Schäfer, S.
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Responsive Membranes and Materials D. Bhattacharyya,Thomas Schäfer,S. R. Wickramasinghe,Sylvia Daunert,2012-11-26 The development of new multifunctional 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 **Biocommunication in Soil Microorganisms**

Günther Witzany,2010-11-01 Communication is defined as an interaction between at least two living agents which share a repertoire of signs These are combined according to syntactic semantic and context dependent pragmatic rules in order to coordinate behavior This volume deals with the important roles of soil bacteria in parasitic and symbiotic interactions with viruses plants animals and fungi Starting with a general overview of the key levels of communication between bacteria further reviews examine the various aspects of intracellular as well as intercellular biocommunication between soil microorganisms This includes the various levels of biocommunication between phages and bacteria between soil algae and bacteria and between bacteria fungi and plants in the rhizosphere the role of plasmids and transposons horizontal gene transfer quorum sensing and quorum quenching bacterial host cohabitation phage mediated genetic exchange and soil viral ecology **2009 New York State Statistical Yearbook** Michael Cooper,2010-05 Published annually this collection of statistical tables is organized into chapters focusing on governmental functions such as Education Transportation and Finance The data presented is most often supplied by New York State agencies

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