

Intelligent Materials For Controlled Release Acs Symposium Series Volume 728

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Intelligent Materials For Controlled Release This volume examines recent developments in the use of intelligent materials and systems for drug delivery. Controlled release technology is moving from being a simple carrier of active agents to becoming a powerful and flexible method that permits subtle modulation of the delivery profile based on the needs of the biological host. Intelligent Materials for Controlled Release (ACS ... This volume examines recent developments in the use of intelligent materials and systems for drug delivery. Controlled release technology is moving from being a simple carrier of active agents to becoming a powerful and flexible method that permits subtle modulation of the delivery profile based on the needs of the biological host. Intelligent Materials for Controlled Release - Steven M ... Cogelation of hydrolyzable cross-linkers and poly(ethylene oxide) dimethacrylate and their use as controlled release vehicles / Jennifer Elisseeff, Winnette McIntosh, Kristi Anseth, and Robert Langer --Temperature-sensitive polymer system constructed with sodium alginate and poly(N, N-dimethylaminoethyl methacrylate-co-acrylamide) / S.H. Yuk, S.H. Cho, H.B. Lee, and M.S. Jhon --Pulsatile drug delivery based on a complexation-decomplexation mechanism / A.M. Lowman and Nicholas A. Peppas --Gel ... Intelligent materials for controlled release (Book, 1999 ... By Jackie Collins - intelligent materials for controlled release acs symposium series volume 728 1st edition by steven m dinh author john denuzzio author ann comfort author isbn 13 978 0841235953 isbn 10 0841235953 why is

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... US6893661B1 - Controlled release formulations using ... Intelligent Material® can be optically programmed and serialized, enabling detailed supply chain monitoring and integrity. This technology has been used across government and industry sectors ensuring consumer safety, brand protection, and product security as well as supply chain governance and quality control. Intelligent Material Solutions, Inc. Jichuan Qiu, Da Huo, Jiajia Xue, Guanghui Zhu, Hong Liu, Younan Xia, Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs, *Angewandte Chemie International Edition*, 10.1002/anie.201904549, 58, 31, (10606-10611), (2019). Stimuli-Responsive Materials for Controlled Release of ... The polymer components are effective for controlled release of the pharmaceutically active substance from the composition. A controlled release pharmaceutical composition comprises (a) topiramate... US20080292700A1 - Controlled release formulations using ... This kind of multi-stimuli-responsive microcapsules with site-specific targeting and adjustable controlled-release characteristics provides a new mode for designing “intelligent” controlled-release systems and is expected to realize more rational drug administration. Multi-Stimuli-Responsive Microcapsules for Adjustable ... An intelligent magnetic hydrogel (ferrogel) was fabricated by mixing poly (vinyl alcohol) (PVA) hydrogels and Fe₃O₄ magnetic particles through freezing–thawing cycles. Magnetic-Sensitive Behavior of Intelligent Ferrogels for ... More

information: Hannes M. Beyer et al. Biomaterials: Synthetic Biology Makes Polymer Materials Count (Adv. Mater. 21/2018), Advanced Materials (2018).DOI: 10.1002/adma.201870150. Hanna J. Wagner

... Biological signalling processes in intelligent materials An intelligent system for the storage and controlled release of pharmaceutical substances. It is no longer a pipe dream – a sophisticated reservoir that sits under the skin and dispenses precise quantities of drugs locally and at a particular point in time now exists. What's more, it is also biocompatible. An intelligent system for the storage and controlled ... Our group is known for our work on the preparation, characterization and evaluation of the behavior of compatible, crosslinked polymers (hydrogels), which have been used as biocompatible materials and in controlled release devices, especially in controlled delivery of drugs, peptides and proteins, development of novel biomaterials, biomedical transport phenomena, and biointerfacial problems. Faculty Profile: Peppas, Nicholas A. Sc.D. Issue 6: Special Issue: American Society of Mechanical Engineers 2013 Conference on Smart Materials, Adaptive Structures and Intelligent Systems, Symposium on Modeling, Simulation and Control, April 2015 , pp. 617-751 Journal of Intelligent Material Systems and Structures ... This situation could be changed with intelligent materials such as vitrimers. "These materials are switchable," says Schubert. "That means that their processability can be controlled in a defined

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