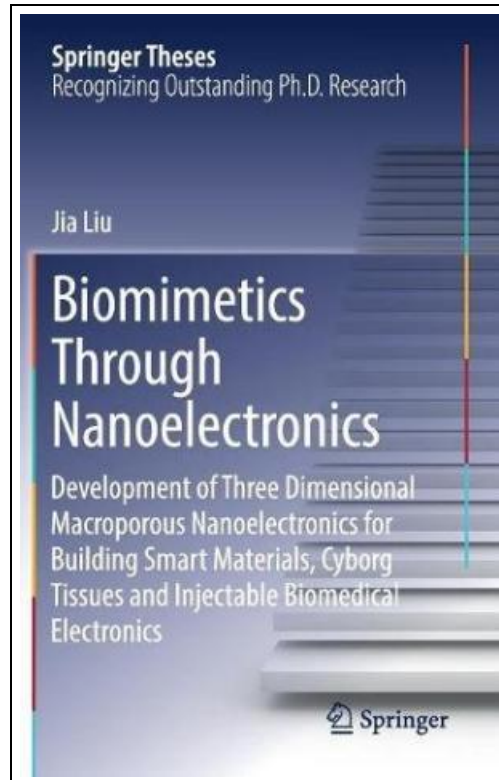


Biomimetics Through Nanoelectronics : Development of Three Dimensional Macroporous Nanoelectronics for Building Smart Materials, Cyborg Tissues and Injectable Biomedical Electronics



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Reviews

Thorough information! Its such a good study. Sure, it is perform, still an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Evie Emmerich)

BIOMIMETICS THROUGH NANO ELECTRONICS : DEVELOPMENT OF THREE DIMENSIONAL MACROPOROUS NANO ELECTRONICS FOR BUILDING SMART MATERIALS, CYBORG TISSUES AND INJECTABLE BIOMEDICAL ELECTRONICS



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Springer-Verlag Gmbh Nov 2017, 2017. Buch. Condition: Neu. Neuware - This thesis presents original research on how to seamlessly integrate electronics with living biological systems. Jia Liu has used silicon nanowires as active sensors to investigate biological signals at the cellular level. He has also designed nanoelectronic networks into flexible, three-dimensional (3D) and macroporous architectures, which mimic the structure of tissue scaffolds for in vitro 3D integrations with synthetic tissues and in vivo implantation by means of syringe injection. Importantly, the results demonstrate 3D interpenetrations of nanoelectronic networks with neural networks, 3D mapping of tissue activity and long-term implantation with minimal immunoresponses. Further, the book discusses potential applications for pharmacological studies, brain activity mapping and nanoelectronics enabled therapies. The findings presented here have gained wide recognition, including a top research ranking by Chemical & Engineering News and being listed among Scientific American's 10 world changing ideas in 2015. 98 pp. English.

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