

Soft Matter Nanotechnology

This text comprises a series of chapters covering a diversity of topics concerning soft nanomaterials and their nanotechnological applications, ranging from substrates for cell culture to DNA-based colloidal materials among others. There are chapters on organic molecules on surfaces, supramolecular materials, nanoparticles, organic nanophotonics, dip-pen lithography, cell surrogates based on PEG-based hydrogel beads, fabrication of solid oxides, conductive polymer nanostructures, DNA-induced nanoparticle assembly, nanostructured substrates for tumor cell capture, organic field-effect transistors, advanced dynamic gels, micro-nanocrystal conversion and self-healing electronic nanodevices. The contributing authors are from well-known institutions in China, Germany, Singapore, and Japan.

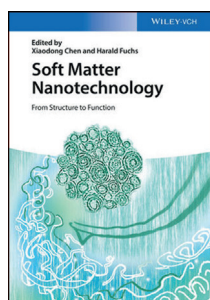
This text will be a useful addition to the bookshelf for those who undertake research on functional nanomaterials, in particular with applications in electronics and photonics (although other topics are covered as mentioned above). It

would be very difficult to produce an edited text which systematically covers all topics within the field of soft matter nanotechnology and this book covers selected topics reflecting the interests of the contributors and editors, rather than providing a comprehensive overview of the subject. Some chapters are rather brief and highly specialized, whilst others are longer and provide good coverage, for example chapter 2 on “Self-Assembly of Organic Molecules into Nanostructures”. In general, the chapters are readable although the English could benefit from editing in parts.

Nonetheless, these chapters provide focused spotlights on highly topical research by leading researchers in the field. The quality of production is very good (as typical for Wiley-VCH) with high quality paper and typesetting, and plentiful use of full-color figures. This text will be a useful addition to the libraries of laboratories working in this fast-moving subject which is attracting considerable interest from researchers internationally.

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