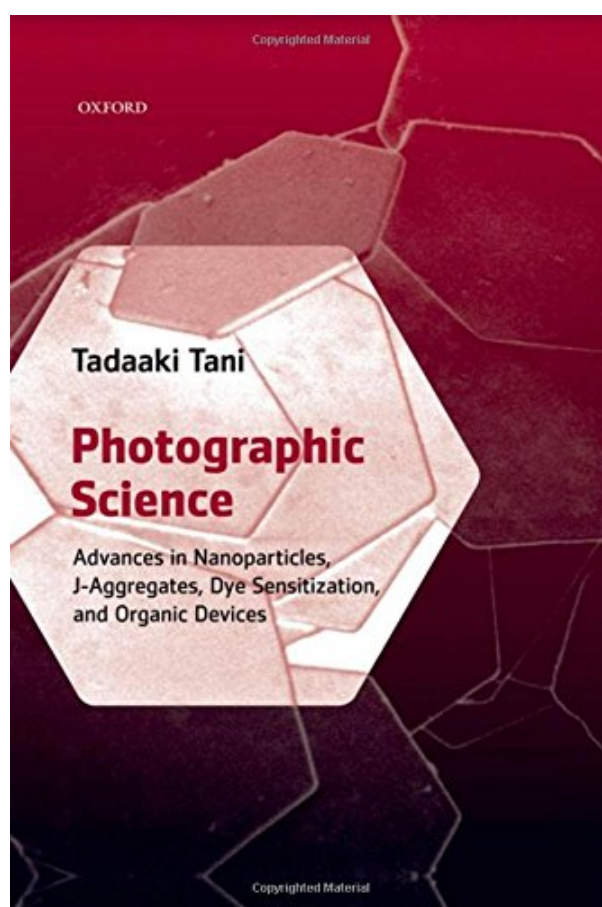
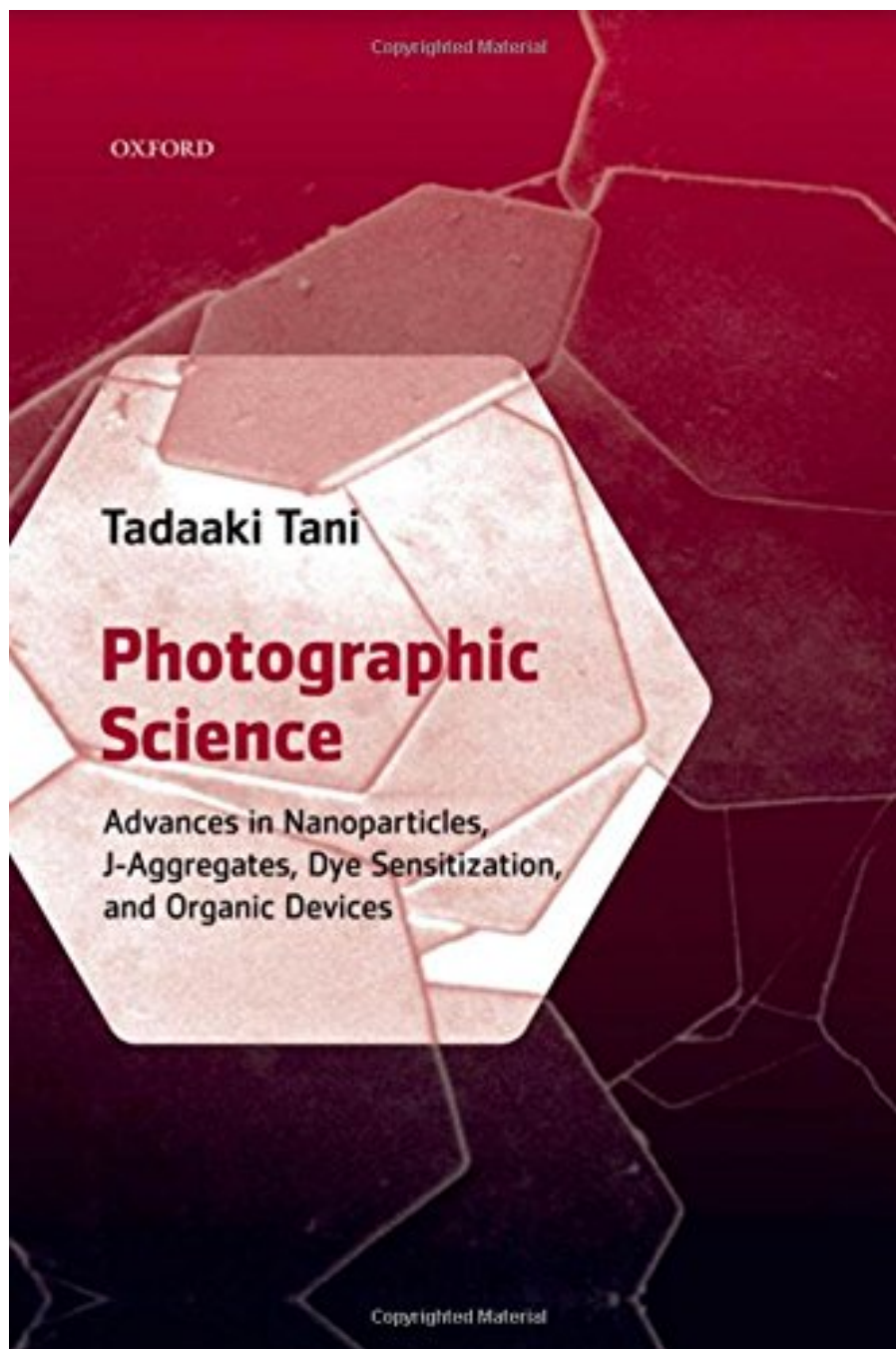


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## Review

"The underlying science of silver halide photography is of great interest to other areas. These include both fundamental issues of optical and cooperative effects in molecular aggregates and photosynthesis as well as device applications to e.g. solar energy conversion. It is of great value to have this authoritative book encapsulating the vast knowledge of the field for scientists and engineers alike." --Shaul Mukamel, University of California at Irvine

## About the Author

Tadaaki Tani received his doctorate in Engineering from the University of Tokyo in 1968, and went on to prestigious careers in the photographic industry and in academia. He worked in the laboratories of the Fujifilm Corporation until his retirement in 2010, and as a lecturer and guest professor at the Tokyo Institute of Technology (1994-2008). He has won many awards for his work, including most recently the Berg Prize of the International Committee for Imaging Science (2010).

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This book provides a guide to modern developments in photographic science and their possible applications to new and exciting areas, including nano-technology, solar cells, and organic semiconductors.

Part I of this book describes the state of the art in photographic science, including recent developments. It describes the structure, formation and properties of silver halide (AgX) nano-particles and grains, the formation and performance of Ag clusters and nano-particles, and dye sensitization with J-aggregated dye layers. Part II describes the applications to new areas now in development, including digital photography, new nuclear-track emulsions, silver nano-particles for surface plasmon resonance, dye-sensitized solar cells, and organic semiconductors in relation to J-aggregated dye layers. Creating a record of accumulated knowledge in photographic science, this book also provides for these new areas a guide to the knowledge and ideas that arise from synergetic interactions between photographic science and technology which have pioneered unique applications of nano-particles, J-aggregates, and dye sensitization.

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