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Birbirinden bağımsız şekilde çalışan hakemler tarafından ciddi bir hakemlik sürecinden geçmektedir. Nobel ödüllü akademisyenler CN Yang, Abdus Salam tarafından bu konudaki kurallar konulmaktadır. Independently owned and managed by academics with rigorous peer review. Encouraged by Nobel Laureates CN Yang, Abdus Salam



>> 10,000'den fazla kitap

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Takaaki Kajita (2015)

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Osamu Shimomura (2008)

Ahmed Zewail (1999)

Chen Ning Yang (1957)

Pierre-Gilles de Gennes (1991)

Philip W. Anderson (1977)

Martinus J. G. Veltman (1999)

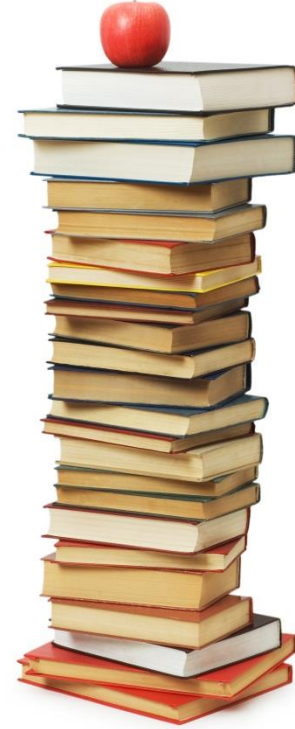
Gerardus 't Hooft (1999)



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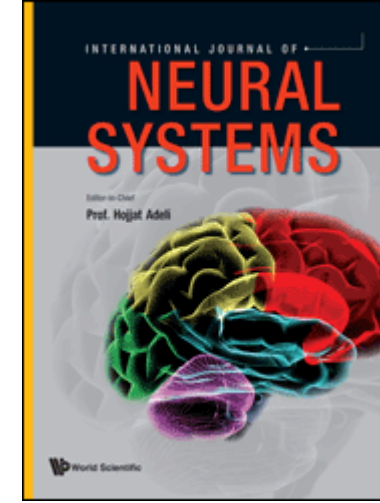
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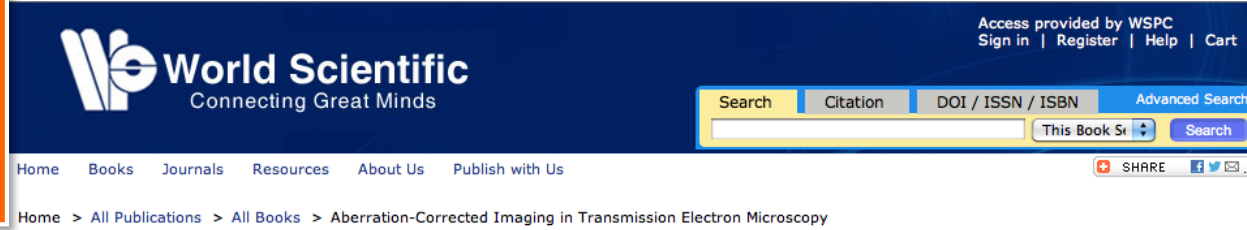
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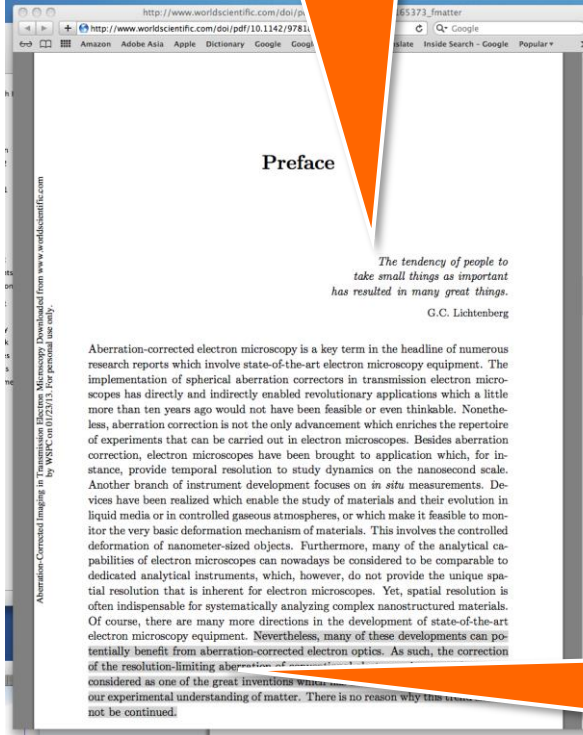
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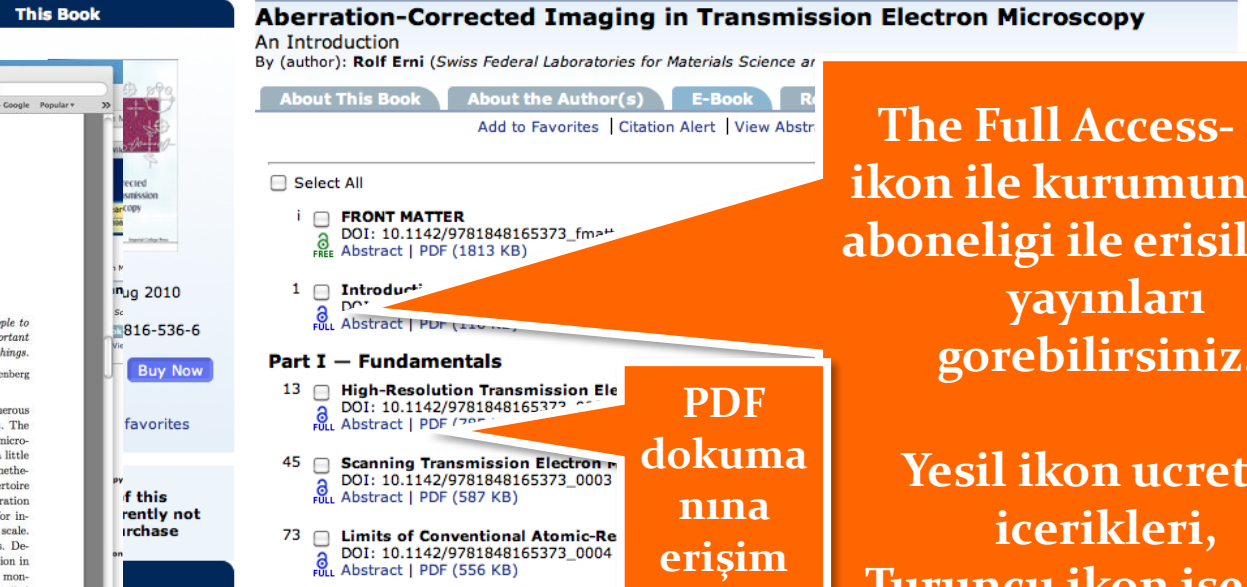
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Preface

The tendency of people to take small things as important has resulted in many great things.
G.C. Lichtenberg

Aberration-corrected electron microscopy is a key term in the headline of numerous research reports which involve state-of-the-art electron microscopy equipment. The implementation of spherical aberration correctors in transmission electron microscopes has directly and indirectly enabled revolutionary applications which a little more than ten years ago would not have been feasible or even thinkable. Nonetheless, aberration correction is not the only advancement which enriches the repertoire of experiments that can be carried out in electron microscopes. Besides aberration correction, electron microscopes have been brought to application which, for instance, provide temporal resolution to study dynamics on the nanosecond scale. Another branch of instrument development focuses on *in situ* measurements. Devices have been realized which enable the study of materials and their evolution in liquid media or in controlled gaseous atmospheres, or which make it feasible to monitor the very basic deformation mechanism of materials. This involves the controlled deformation of nanometer-sized objects. Furthermore, many of the analytical capabilities of electron microscopes can nowadays be considered to be comparable to dedicated analytical instruments, which, however, do not provide the unique spatial resolution that is inherent for electron microscopes. Yet, spatial resolution is often indispensable for systematically analyzing complex nanostructured materials. Of course, there are many more directions in the development of state-of-the-art electron microscopy equipment. Nevertheless, many of these developments can potentially benefit from aberration-corrected electron optics. As such, the correction of the resolution-limiting aberrations is considered as one of the great inventions which will continue to expand our experimental understanding of matter. There is no reason why this story should not be continued.



This Book

Aberration-Corrected Imaging in Transmission Electron Microscopy
An Introduction
By (author): Rolf Erni (Swiss Federal Laboratories for Materials Science and Technology)

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Lilin Guo et al, *Int. J. Neur. Syst.* 27, 50002 (2017) [19 pages] DOI: <http://dx.doi.org/10.1142/S0129065717500022>

A Cross-Correlated Delay Shift Supervised Learning Method for Spiking Neurons with Application to Interictal Spike Detection in Epilepsy

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