Quantum dot research is a very active and promising field, with significant applications in various sectors. Quantum dots can provide a semiconductor-based implementation for qubits, serving as computing units for quantum computers. Additionally, quantum dots have notable applications in lasers, solar cells, transistors, LEDs, waveguide amplifiers, and luminescent markers, among others. Numerous publications and patents related to the optical application of quantum dots have been developed, drawing attention from researchers in various industries.

The special issue on “Quantum Dot Research” will focus on both theoretical and experimental research frontiers. Topics include quantum dot structures such as quantum wells, wires, transistors, lasers, luminescence, display, solar cells, photodetectors, nanocrystals, semiconductor nanodevices, nanostructures, nanotechnology, nanoparticles, single electron transistors, programmable matter, and STM and quantum dot systems.

In this special issue, we invite researchers and authors to submit original research and review articles on Quantum Dot Research. Authors should carefully read the journal's Author's Guidelines before submission. Prospective authors should submit electronic copies of their manuscripts through the journal’s Paper Submission System.
Please kindly notice that the “Special Issue” under your manuscript title is supposed to be specified and the research field “Special Issue —Quantum Dot Research” should be chosen during your submission.

According to the following timetable:

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**Guest Editor**

**Dr. Yohannes Abate**  
California State University, USA

For further questions or inquiries  
Please contact Editorial Assistant at  
jmp@scirp.org