



# Accelerated Materials Genome Research with Data- Augmented Supercomputing

To accelerate new materials research and strengthen industrial competitiveness, the Institute of Physics, Chinese Academy of Sciences (IOP-CAS), built a high-throughput computing (HTC) materials genome computation and data processing platform. HTC platforms tend to have higher or more demanding requirements for parallel processing performance, average response time, throughout, scalability, and cost. To meet these requirements, IOP-CAS works with Intel and Dell to build their new platform and introduced several key computing and high-speed interconnect technologies. The new platform has earned praise from frontline materials researchers for its performance, accessibility, reliability, and serviceability that brings them greater momentum in new materials research.

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