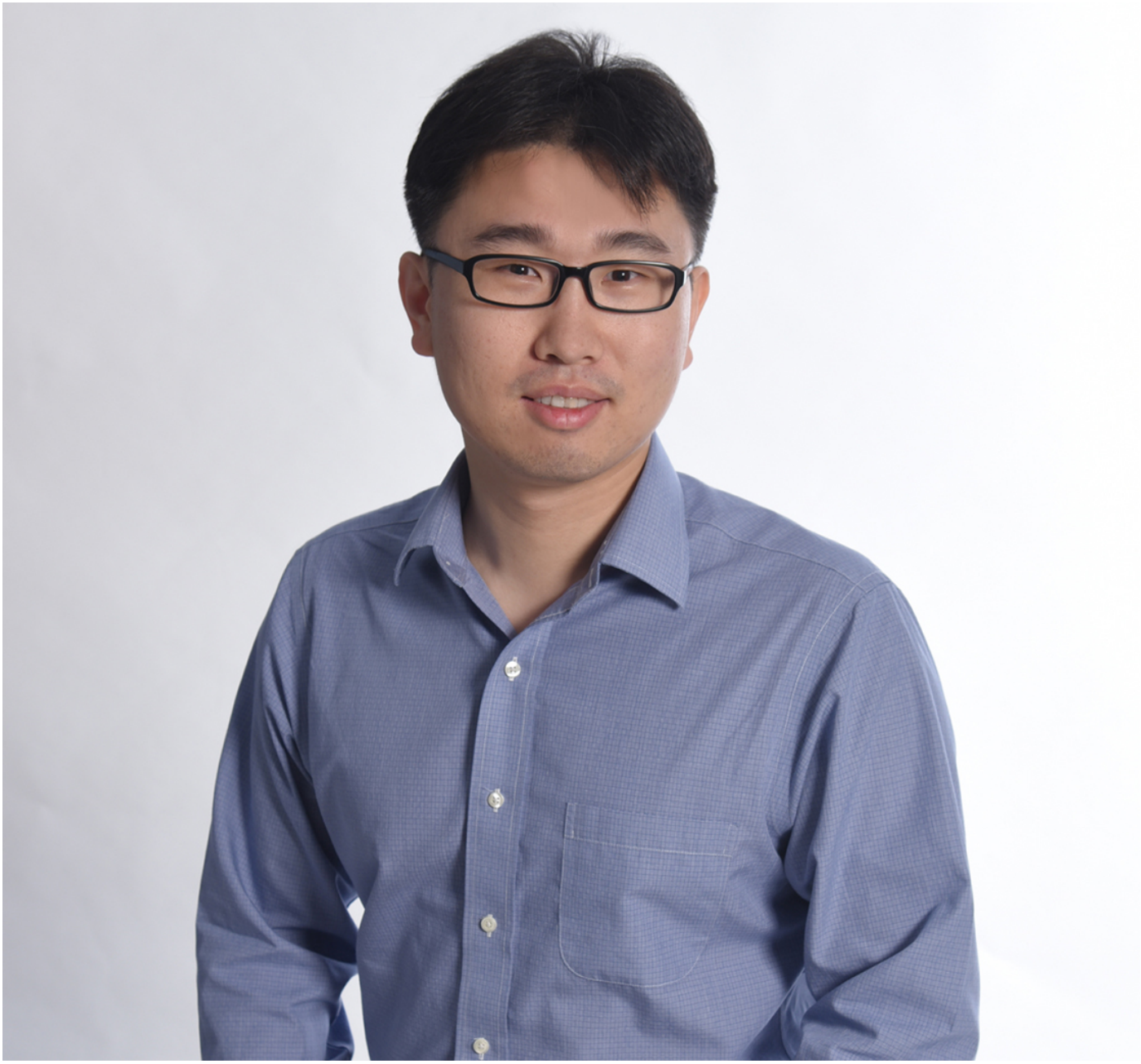
Huolin Xin receives early career award from DOE Office of Science

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Brian Bell
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Huolin Xin, UCI associate professor of physics & astronomy, was a co-author of the study, published Sept. 2 in Nature.

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The U.S. Department of Energy has chosen Houlin Xin, UCI assistant professor of physics & astronomy, as an awardee in its DOE Office of Science Early Career Research Program. Xin will receive $150,000 per year for five years to support his project to develop transmission electron microscopy imaging technologies for making lithium-ion battery electrodes more efficient and long-lasting. “I am honored to have been selected by the DOE for its early career research program,” said Xin. “It’s a recognition of the contribution that fundamental research in physics, chemistry and materials science will make in creating an energy future that powers our lives while protecting the climate and environment.” In recent years, Xin has researched the use of machine learning-enabled electron tomography for resolving chemical properties and material dynamics in battery components. He said his goal is to identify the elements and chemical compounds that will form the basis of advanced battery and power storage innovations in the future. Now in its 11th year, the DOE early-career grant program is designed to bolster the nation’s scientific workforce by providing support to exceptional researchers during crucial early career years, when many scientists do their most formative work.

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