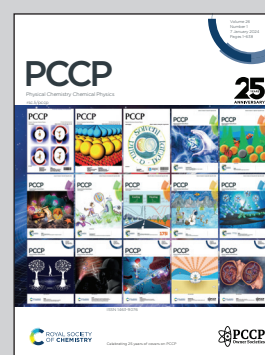


Showcasing research from the group of Professor Kang Taek Lee, Department of Chemistry, GIST, Korea.

Enhancing the upconversion of Er^{3+} incorporated BaTiO_3 by introducing oxygen vacancies

The Lee's group has been interested in the research on the lanthanide upconversion. In this work, we report our recent finding that the upconversion from the Er^{3+} incorporated BaTiO_3 was found to be enhanced by oxygen vacancies. Such vacancies induce the non-centrosymmetric environments at the Er^{3+} sites and, this results in the upconversion enhancement which is proportional to the amount of oxygen vacancies.

As featured in:



See Kang Taek Lee *et al.*,
Phys. Chem. Chem. Phys.,
2024, **26**, 165.