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Title: Elastic squared form factor and binding effect of carbon dioxide studied by the high resolution x-ray scattering

Author: Xin-Chao Huang Long-Quan Xu Dong-Dong Ni  
Ya-Wei Liu Yi-Geng Peng Ke Yang Nozomu Hiraoka  
Ku-Ding Tsuei Lin-Fan Zhu



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**Research Highlights**

- ◆ The first measurement for elastic squared form factor (ESFF) of CO<sub>2</sub> by high resolution x-ray scattering.
- ◆ The experimental ESFF difference is determined for the first time to reveal a clean binding effect.
- ◆ The determined bond lengths of CO<sub>2</sub> by this work are in good agreement with the NIST benchmark data.

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