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Elucidating the local structure of carbon nitride materials using electron energy-filtered radial distribution function analysis

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Here we report the application of energy-filtered electron radial distribution function (eRDF) analysis, combined with transmission electron microscopy imaging and X-ray powder diffraction, for elucidating the crystal structure and describing local order in carbon nitride powders with different degrees of crystallinity: (1) sodium polyheptazine imide (Na-PHI) and (2) amorphous CN covalent network (a-CN).

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