

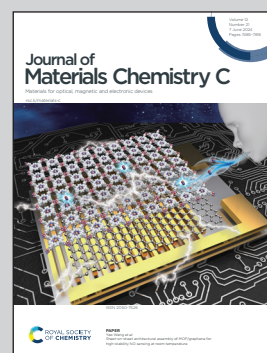
The Cover Art shows work of the Lab group of Christina Birkel at the Technische Universität Darmstadt in Germany.

Between carbide and nitride MAX phases: sol-gel assisted synthesis and characterization of the carbonitride phase  $\text{Cr}_2\text{GaC}_{1-x}\text{N}_x$

By combining sol-gel assisted precursor approaches and microwave heating we managed to synthesize a new carbonitride MAX phase, which in general is a highly underrepresented group amongst the large family of MAX phases. Magnetic measurements reveal that the amount of incorporated nitrogen can specifically influence the magnetic properties. This further substantiates the big potential of nitrogen-containing MAX phases.

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### As featured in:



See Christina S. Birkel et al.,  
*J. Mater. Chem. C*, 2024, **12**, 7552.