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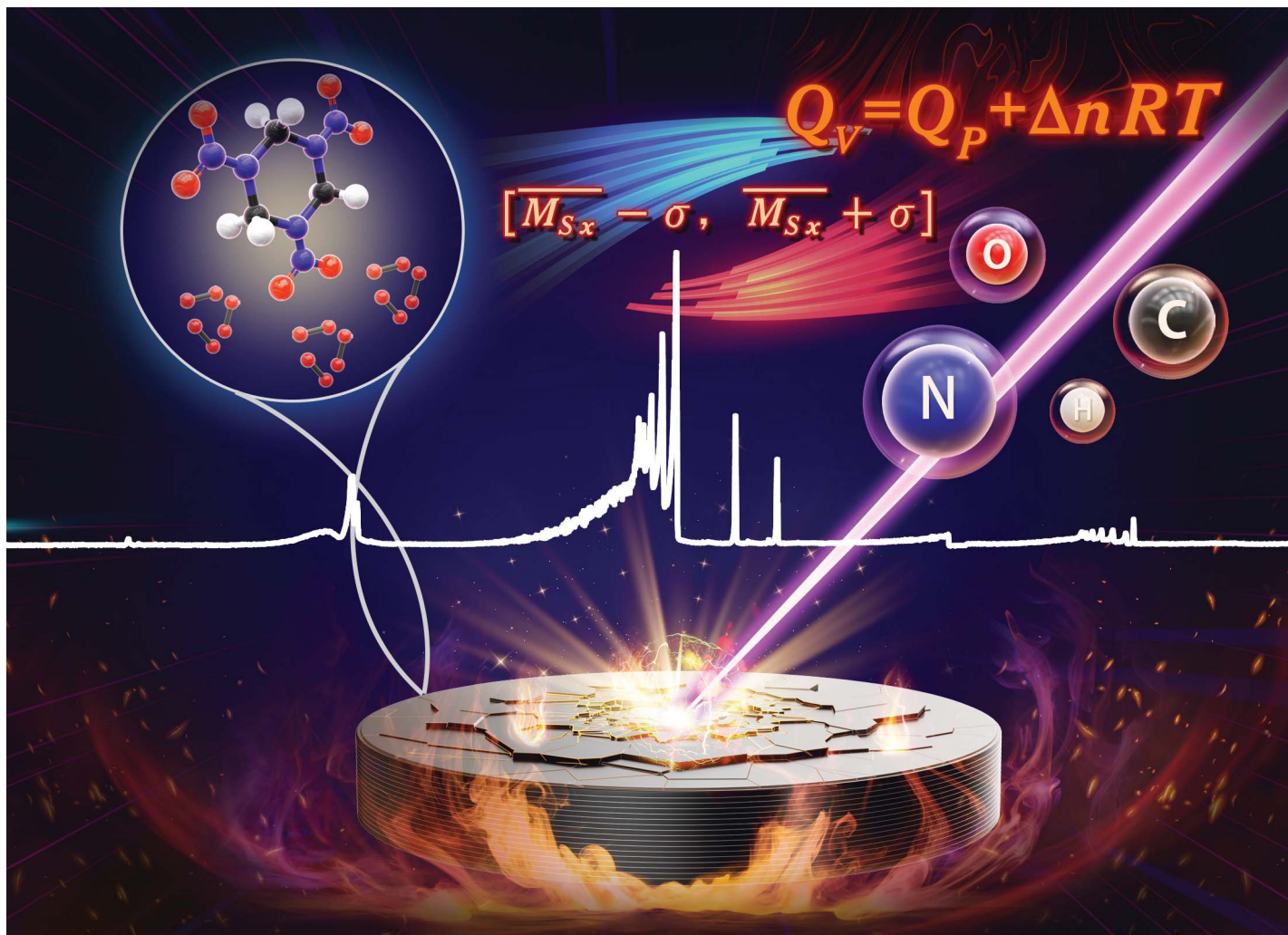
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Fundamental questions
Elemental answers



Showcasing research from Professor Ruibin Liu's laboratory, School of Physics, Beijing Institute of Technology, Beijing, China.

High-accuracy measurement of the heat of detonation with good robustness by laser-induced breakdown spectroscopy of energetic materials

A simple method for the quantitative determination of heat of detonation by laser induced characteristic spectra using a small dose of energetic material is realized for the first time. The optimized prediction model with high accuracy and robustness is established, which guarantee the rapid determination of explosive properties of energetic materials so as to promote the development of online monitoring technology in energetic material related industries.

As featured in:



See Lixiang Zhong, Ruibin Liu *et al.*, *J. Anal. At. Spectrom.*, 2023, **38**, 810.