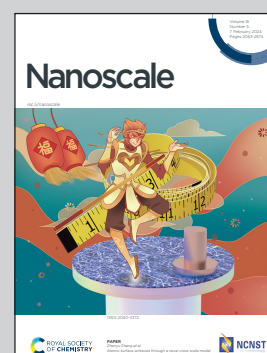


Showcasing work from the groups of  
**Dr Valentin A. Milichko**, School of Physics and Engineering,  
 ITMO University, Russia, and **Professor Thierry Belmonte**,  
 Institut Jean Lamour, Université de Lorraine, France.

FeAu mixing for high-temperature control of light scattering  
 at the nanometer scale

Mixing of weakly miscible elements inside the NP supports a  
 thermal-induced phase transformation from a homogeneous  
 metastable solid solution phase into biphasic Janus-type NP,  
 resulting in optical tuning triggered by a high temperature.

**As featured in:**



See Thierry Belmonte,  
 Valentin A. Milichko *et al.*, *Nanoscale*,  
 2024, **16**, 2289.