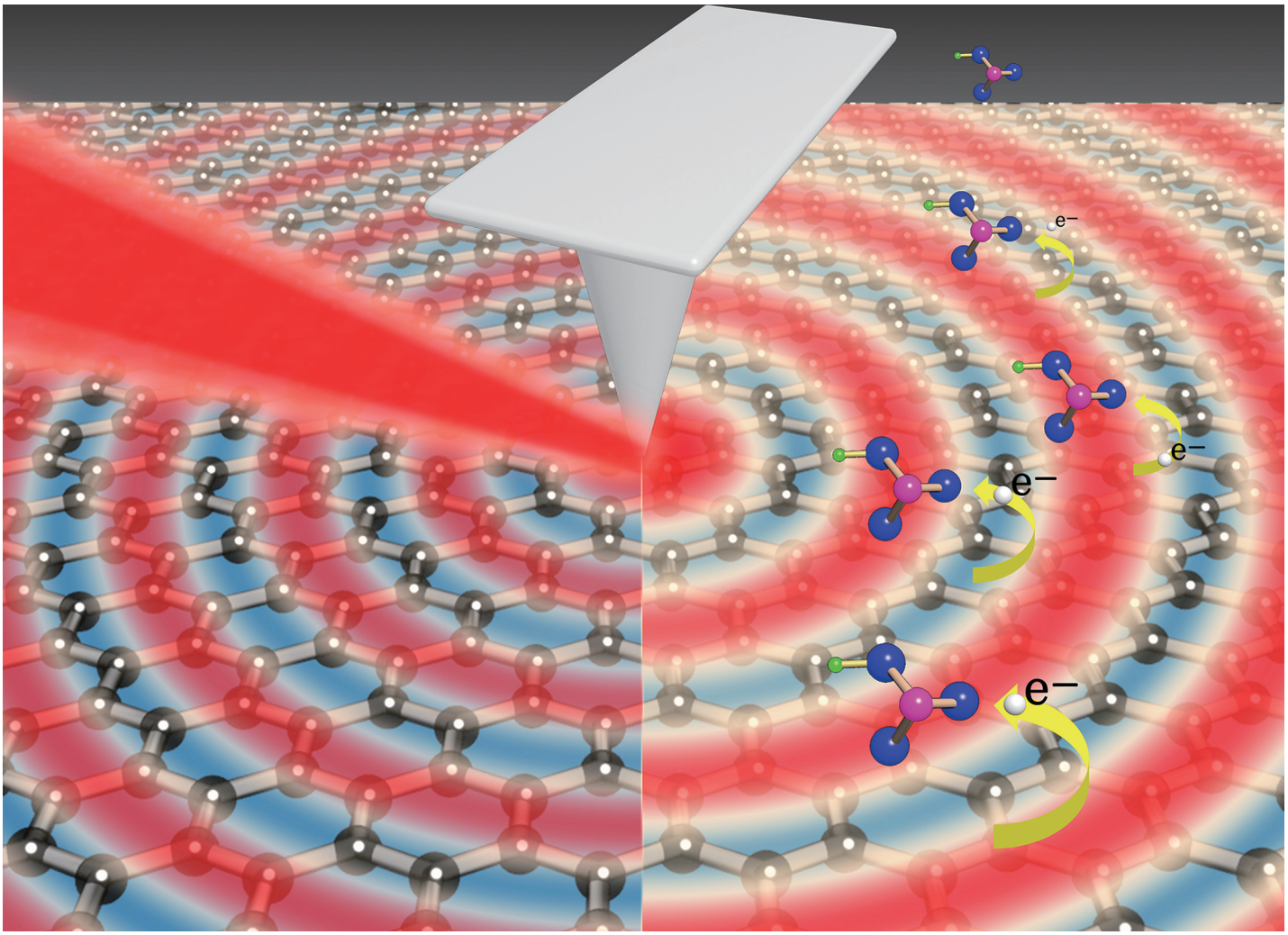
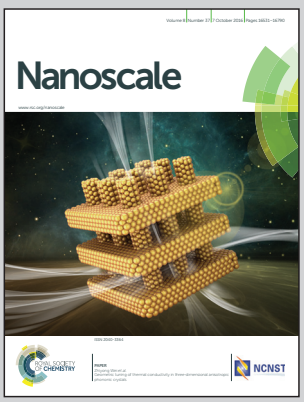


Showcasing research from the State Key Lab of Opt. Mater. and Tech., Guangdong Province Key Lab of Display Mater. and Tech., Sch. of Elect. and Info. Tech., Sch. of Phys., Sun Yat-sen University, Guangzhou, and Shenyang Nat. Lab for Mater. Sci., Institute of Metal Research, Shenyang.

Chemically-doped graphene with improved surface plasmon characteristics: an optical near-field study

The near-field plasmonic characteristics of chemically-doped graphene were studied using nano-imaging. The results indicated that upon HNO_3 doping, the graphene plasmon strengths were enhanced due to the injection of charge carriers, while the plasmon damping rates were reduced. The findings can provide important insights into the understanding of the plasmon performance of graphene upon chemical doping.

As featured in:



See Huanjun Chen, Shaozhi Deng *et al.*, *Nanoscale*, 2016, **8**, 16621.

ROYAL SOCIETY OF CHEMISTRY

www.rsc.org/nanoscale

Registered charity number: 207890