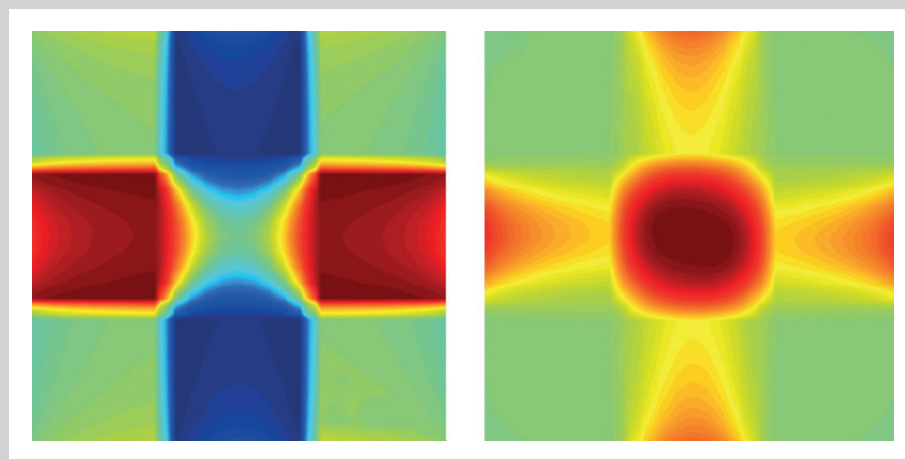


# Journal of Physics

## Condensed Matter

Volume 30 Number 14 11 April 2018



[iopscience.org/jpcm](http://iopscience.org/jpcm)

**IOP** Publishing

### SPECIAL ISSUE PAPERS

- 144001 Phase transition of intermetallic TbPt at high temperature and high pressure**  
Fei Qin, Xiang Wu, Ke Yang and Shan Qin
- 144002 Self consistent field theory of virus assembly**  
Siyu Li, Henri Orland and Roya Zandi
- 144003 Functional metasurfaces based on metallic and dielectric subwavelength slits and stripes array**  
Yinghui Guo, Mingbo Pu, Xiong Li, Xiaoliang Ma, Ping Gao, Yanqin Wang and Xiangang Luo
- 144004 Local order and crystallization of dense polydisperse hard spheres**  
Daniele Coslovich, Misaki Ozawa and Ludovic Berthier
- 144005 Evaluating the Laplace pressure of water nanodroplets from simulations**  
Shahrazad M A Malek, Francesco Sciortino, Peter H Poole and Ivan Saika-Voivod
- 144006 Modelling of nanoscale multi-gate transistors affected by atomistic interface roughness**  
Daniel Nagy, Manuel Aldegunde, Muhammad A Elmessary, Antonio J García-Loureiro, Natalia Seoane and Karol Kalna
- 144007 Electrically tunable polarizer based on graphene-loaded plasmonic cross antenna**  
Yuwei Qin, Xiaoyan Y Z Xiong, Wei E I Sha and Li Jun Jiang
- 144008 Correlation between structural change and electrical transport properties of Fe-doped chrysotile nanotubes under high pressure**  
Junkai Zhang, Lili Yang, Xiaoxin Wu, Maobin Wei, Yanqing Liu, Chunxiao Gao, Jinghai Yang and Yanzhang Ma

### PAPERS

#### SURFACES AND INTERFACES

- 145001 Giant magnetic anisotropy and robust quantum anomalous Hall effect in boron-doped graphene with Re-adsorption**  
Kai-Cheng Zhang, Yong-Feng Li, Yong Liu and Yan Zhu

#### SOFT MATTER, BIOPHYSICS AND LIQUIDS

- 145101 Pressure and compressibility factor of bidisperse magnetic fluids**  
Elena S Minina, Ronald Blaak and Sofia S Kantorovich

#### NANOSTRUCTURES AND NANOELECTRONICS

- 145301 Robust tunable excitonic features in monolayer transition metal dichalcogenide quantum dots**  
J Fouladi-Oskouei, S Shojaei and Z Liu
- 145302 Calculations of spin-polarized Goos-Hänchen displacement in magnetically confined GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As nanostructure modulated by spin-orbit couplings**  
Mao-Wang Lu, Sai-Yan Chen, Gui-Lian Zhang and Xin-Hong Huang
- 145303 Photon-induced tunability of the thermospin current in a Rashba ring**  
Nzar Rauf Abdullah, Thorsten Arnold, Chi-Shung Tang, Andrei Manolescu and Vidar Gudmundsson

#### STRUCTURE, DYNAMICS AND PHASE TRANSITIONS

- 145401 Local structure and defects in ion irradiated KTaO<sub>3</sub>**  
F X Zhang, J Xi, Y Zhang, Yang Tong, H Xue, R Huang, C Trautmann and W J Weber
- 145402 Distinguishing Majorana bound states and Andreev bound states with microwave spectra**  
Zhen-Tao Zhang

*(Continued on inside back cover)*