



2019 Strongly Correlated Electronic Systems from SCPMA

We recommend the following articles on Strongly Correlated Electronic Systems published in SCIENCE CHINA Physics, Mechanics & Astronomy (SCPMA) in 2019. These articles focus on the latest research results in superconductors, topological insulators, and Weyl semimetals, contributed from the famous research groups in this field, including Profs. Fuchun Zhang, Haiqing Lin, Haihu Wen, Jinfeng Jia, Changqing Jin, etc. We hope it will offer you valuable information, and make you aware of publications in SCPMA according to your research area.

Article Condensed Matter Physics

[Hexagonal warping effect on Majorana zero modes at the ends of superconducting vortex lines in doped strong 3D topological insulators](#)

Lun-Hui Hu, Fu-Chun Zhang, Chuang Li

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(11): 117411-

(2019) [10.1007/s11433-019-9391-7](#)

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Letter Condensed Matter Physics

[Orbital selection of the double \$\[\text{CuO}_2\]\$ layer compound \$\text{Ca}_3\text{Cu}_2\text{O}_4\text{Cl}_2\$](#)

WenMin Li, Shuang Yu, QingQing Liu, JianFa Zhao, GuangYang Dai, XianCheng Wang, Lei Duan, GuoQiang Zhao, RunZe Yu, LiPeng Cao, YouWen Long, YaTing Jia, Chien-Te Chen, ChangQing Jin, ZhiWei Hu, Hong-Ji Lin, Jun Zhang, Liu-Hao Tjeng

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(10): 107421-

(2019) [10.1007/s11433-019-9436-6](#)

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Point-contact tunneling spectroscopy between a Nb tip and an ideal topological insulator \$\text{Sn-doped Bi}_{1.1}\text{Sb}_{0.9}\text{Te}_2\text{S}\$](#)

Ying Xiang, Wei Xie, Huan Yang, ZhiXin Liu, Guan-Yu Chen, XiYu Zhu, Hai-Hu Wen

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(9): 997411

(2019) [10.1007/s11433-019-9395-0](#)

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Quantum-classical correspondence in integrable systems](#)

Biao Wu, Yiqiang Zhao

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(9): 997011-

(2019) [10.1007/s11433-018-9348-2](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Molecular beam epitaxy of superconducting PdTe₂ films on topological insulator Bi₂Te₃](#)

YaoYi Li, YanFu Wu, CanHua Liu, Gang Yao, ShiYong Wang, HuanYi Xue, Hao Yang, DanDan Guan, Hao Zheng, JinFeng Jia

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(7): 076801

(2019) [10.1007/s11433-018-9342-3](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Turning ZrTe₅ into a semiconductor through atom intercalation](#)

JinSheng Wen, LiBo Gao, YangYang Lv, WeiMin Zhao, Li Zhu, Song Bao, QiYuan Li, ChengLong Xue, YanBin Chen, YanFeng Chen, Wei Shi, ZhenYu Jia, JingHui Wang, ShaoChun Li

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(6): 967812

(2019) [10.1007/s11433-018-9329-4](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Numerical study of Klein quantum dots in graphene systems](#)

JiaoJiao Zhou, ShuGuang Cheng, WenLong You, Hua Jiang

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(6): 067811-

(2019) [10.1007/s11433-018-9314-2](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Structure, charge transfer, and superconductivity of \$\sim M\$ -doped phenanthrene \(\$\sim M = \text{Al, Ga, and In}\$ \): A comparative study of K-doped cases](#)

Hai-Qing Lin, Guo-Hua Zhong, Hai-Yan Lv, Xiao-Jia Chen, Ming Chen, Chun-Lei Yang

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(5): 957412-

(2019) [10.1007/s11433-018-9362-x](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Superconductivity, electronic phase diagram, and pressure effect in Sr_{1-x}Pr_xFBiS₂](#)

HongYing Mao, ChuanYing Xi, HaiYang Yang, Jie Cheng, JianHui Dai, YuKe Li, JiaLu Wang, Li Zhang, Wei You, Lin Li, YongKang Luo

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(5): 957411

(2019) [10.1007/s11433-018-9326-4](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe₂](#)

XuJie Lü, HuaQing Huang, MingZhe Yan, JiaHeng Li, NaNa Li, Shang Peng, Peng Cai, FengLiang Liu, Qian Zhang, SongHao Guo, ShuYun Zhou, WenHui Duan, LiFeng Yin, Jian Shen, WenGe Yang, KeNan Zhang

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(4): 048211

(2019) [10.1007/s11433-018-9319-3](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Article Condensed Matter Physics

[Superconductivity in potassium and ammonia co-intercalated FeSe_{1-x}Te_x](#)

Xiao Bin, Wang Nai, Shang Chao, Meng Fan, Ding Jian, Lei Bin, Luo Xi

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(4): 047411

(2019) [10.1007/s11433-018-9302-6](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

News & Views Condensed Matter Physics

[Discrete scale invariance and ln\(B\) periodic quantum oscillations in topological semimetals](#)

Robert Joynt

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(3): 037431

(2019) [10.1007/s11433-018-9343-1](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Letter Condensed Matter Physics

[Superconductivity of a cuprate with compressed local octahedron](#)

YouWen Long, WenMin Li, QingQing Liu, XianCheng Wang, ChangQing Jin, JianFa Zhao, LiPeng Cao, RunZe Yu

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(3): 037421

(2019) [10.1007/s11433-018-9346-8](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

Letter Condensed Matter Physics

[Superconductivity of Pb films studied with superconducting Pb tips](#)

Qin ShengYong

[SCIENCE CHINA Physics, Mechanics & Astronomy](#), 62(1): 017421

(2019) [10.1007/s11433-018-9269-3](#) 

[\[Abstract\]](#) [\[PDF\]](#) [\[Full Text\]](#)

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[Special Topic: The Science and Technology of FAST](#)

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