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师资力量

朱文国

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朱文国：副研究员，硕士生导师

简介

2011年于中山大学物理科学与工程技术学院获得理学学士学位，2016年于中山大学光电材料与技术国家重点实验室获得光学博士学位，2014-2015年到澳大利亚国立大学物理与工程学院访问学习。2016.07加入暨南大学光电工程系。主要从事光纤光电集成器件、光自旋（与圆偏振态相关）和轨道（与螺旋相位相关）角动量的产生、调控及其应用研究。以第一作者或通信作者身份在ACS Photonics、Nonaphotonics、Photonic Research、Optics Letters、Optics Express、Sensors and Actuators B、等国际权威期刊共发表学术论文25篇。担任Optics Express和Applied Optics、Optics Communications等国际期刊审稿专家。重视硕士生、本科生培养工作，指导多名研究生获国家奖学金；指导本科生第一作者在Nonaphotonics、Optics Express等国际期刊上发表论文5篇。

学习经历

2011/09-2016/06, 中山大学, 光学, 博士
2007/09-2011/06, 中山大学, 光电信息科学与技术, 本科

工作经历

20016.06-至今, 暨南大学, 讲师(2016)、副研究员(2018)

研究方向

1. 光子自旋和轨道角动量的产生和调控。研究光学超常材料、光学超表面、二维材料等中光子自旋-轨道相互作用特性，实现对自旋和轨道光子的操控，研究其在量子信息和光通信中应用。
2. 光纤光电集成器件，研究基于二维材料的光纤光电集成器件，包括光纤在线起偏器、调制器、探测器等光通信器件。

承担课程

《传感技术》和《移动通信》

承担项目

1. 国家自然科学基金青年基金项目，61705086，超材料增强的光子轨道霍尔效应及其多阶轨道角动量无损检测方法研究，2018.01-2020.12，25万元，进行中，主持。
2. 广东省自然科学基金项目，2017A030313375，纳米薄膜增强的光轨道霍尔效应及多阶角动量检测技术，2017.05-2020.05，10万元，进行中，主持。
3. 暨南大学科研培育与创新基金研究项目，纳米薄膜中的光轨道霍尔效应，2017.01-2019.12，15万元，进行中，主持。

发表论文

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2. H. Lin, B. Chen, S. Yang, **W. Zhu***, J. Yu, H. Guan, and H. Lu, Photonic spin Hall effect of monolayer black phosphorus in the Terahertz region, *Nanophotonics* 7, 1929-1937 (2018).
3. J. Yu, L. Chen, H. Dong, X. Liu, H. Huang, W. Qiu, S. Huang, **W. Zhu***, H. Lu, J. Tang, Y. Xiao, Y. Zhong, Y. Luo, J. Zhang, and Z. Chen*, Sensing and exploiting static femto-Newton optical forces by a nanofiber with white light interferometry, *ACS Photonics* 5, 3205-3213 (2018).
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5. L. Zhuo, W. Long, M. Jiang, **W. Zhu***, H. Guan, J. Tang, J. Yu, H. Lu, J. Zhang, and Z. Chen, Graphene-based tunable Imbert-Fedorov shifts and orbital angular momentum sidebands for reflected vortex beams in the terahertz region, *Opt. Lett.* 43, 2823 (2018).
6. Z. Chen, L. Zhuo, **W. Zhu***, L. Chen, J. Yu, H. Guan, H. Lu, J. Dong, W. Qiu, and Z. Chen, Measurement of Giant Spin Splitting of Reflected Gaussian Beams, *IEEE Photonics J.* 10, 4500307 (2018).
7. M. Jiang, H. Lin, L. Zhuo, **W. Zhu***, H. Guan*, J. Yu, H. Lu, J. Tan, and Z. Chen, Chirality induced asymmetric spin

- splitting of light beams reflected from an air-chiral interface, *Opt. Express* 26, 6593 (2018).
8. H. Lin, **W. Zhu***, J. Yu*, M. Jiang, L. Zhuo, W. Qiu, J. Dong, Y. Zhong, and Z. Chen, Upper-limited angular Goos-Hänchen shifts of Laguerre-Gaussian beams, *Opt. Express* 26, 5810 (2018).
9. Y. Huang⁺, **W. Zhu***, Z. Li, G. Chen, L. Chen, J. Zhou, H. Lin, J. Guan, W. Fang, X. Liu, H. Dong, J. Tang, H. Guan, H. Lu, Y. Xiao, J. Zhang, H. Wang, Z. Chen, and J. Yu, High-performance fibre-optic humidity sensor based on a side-polished fibre wavelength selectively coupled with graphene oxide film, ***Sensors Actuators B Chem.*** 255, 57–69 (2018).
10. **W. Zhu**, L. Zhuo, M. Jiang, H. Guan, J. Yu, H. Lu, Y. Luo, J. Zhang, and Z. Chen, Controllable symmetric and asymmetric spin splitting of Laguerre – Gaussian beams assisted by surface plasmon resonance, *Opt. Lett.* 42, 4869–4872 (2017).
11. **W. Zhu**, M. Jiang, H. Guan, J. Yu, H. Lu, J. Zhang, and Z. Chen, Tunable spin splitting of Laguerre–Gaussian beams in graphene metamaterials, ***Photonics Res.*** 5, 684 (2017).
12. D. Zhang, H. Guan*, **W. Zhu***, J. Yu, H. Lu, W. Qiu, J. Dong, J. Zhang, Y. Luo, and Z. Chen, All light-control-light properties of molybdenum diselenide (MoSe₂)-coated-microfiber, *Opt. Express* 25, 740–746 (2017).
13. M. Jiang, **W. Zhu***, H. Guan*, J. Yu, H. Lu, J. Tan, J. Zhang, and Z. Chen, Giant spin splitting induced by orbital angular momentum in an epsilon-near-zero metamaterial slab, *Opt. Lett.* 42, 3259 (2017).
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15. **W. Zhu**, J. Yu, H. Guan, H. Lu, J. Tang, Y. Luo, and Z. Chen, Large spatial and angular spin splitting in a thin anisotropic ϵ -near-zero metamaterial, *Opt. Express* 25, 5196–5205 (2017).
16. **W. Zhu**, N. Eckerskorn, A. Padhya, A. Rode, and W. Lee, Dynamic axial control over optically levitating particles in air with an electrically-tunable variable-focus lens, *Biomed. Opt. Express* 7, 2902–2911 (2016).
17. **W. Zhu**, V. Shvedov, W. She, and W. Krolikowski, Transverse spin angular momentum of tightly focused full Poincaré beams, *Opt. Express* 23, 34029 (2015).
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multiring modes of light beams, Opt. Lett. 37, 2823 (2012).

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