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**个人简介及主要学术贡献：**

俞大鹏，男，1959年出生于宁夏中卫。现任南方科技大学讲席教授、量子科学与工程研究院院长。1982年毕业于现华东理工大学获学士学位；1985年毕业于中国科学院上海硅酸盐研究所，获硕士学位；1993年毕业于法国南巴黎大学，固体物理博士。俞大鹏教授获国家杰出青年科学基金、“长江学者”特聘教授称号，2015年当选为中国科学院技术学部院士。

俞大鹏教授长期从事低维纳米结构物理研究，是半导体量子线等低维量子材料的规模制备和物理性质表征研究方面的国际先驱。2016年俞大鹏教授全职到南方科技大学工作，致力于量子科技研究平台与队伍的建设。近十几年来，其研究重心集中在对单根纳米线、单体量子结构的光电力热磁等物理性质的精确量子调控上，其领导的研究团队对纳米线、石墨烯等单个微观结构的光电力热磁等物理性质的操控能力达到了新的高度。

作为项目负责人，俞大鹏教授承担着科技部“量子调控”重点专项重大项目、国家自然联合集成项目、广东省重点领域研发计划重大科技专项等项目。

俞大鹏教授共计发表400余篇论文，含APS刊物论文PRL/PRB 33篇、AIP刊物APL/JAP 96 篇，综合性NPG刊物PRL/PRB 33篇12篇，h-因子88、谷歌H-因子91。2014至2019年连续进入在Elsevier 发布的在全球具有重要学术影响力的中国高被引学者，位列“物理与天文”学科榜单的前列。

**俞大鹏教授近期代表性论文目录：**

1. **Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper, Wang, Li; Xu, Xiaozhi; Zhang, Leining; Qiao, Ruixi; Wu** **Muhong;; et al., Nature, 570:91–95 (2019).**
2. **Current-controlled propagation of spin waves in antiparallel, coupled domains; Liu, Chuanpu; Wu, Shizhe; Zhang, Jianyu; Chen, Jilei; et al., Nature nanotechnology, 14:691–697 (2019).**
3. **Universal Imaging of Full Strain Tensor in 2D Crystals with Third-Harmonic Generation, Liang, Jing; Wang, Jinhuan; Zhang, Zhihong; Su, Yingze; et al., ADVANCED MATERIALS, 31(19): 1808160, 2019.**
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5. **Probing Far-Infrared Surface Phonon Polaritons in Semiconductor Nanostructures at Nanoscale, Qi, Ruishi; Wang, Renfei; Li, Yuehui; Sun, Yuanwei; et al., NANO LETTERS, 19(8):5070-5076, 2019.**
6. **Observation of an Odd-Integer Quantum Hall Effect from Topological Surface States in Cd3As2, Lin, Ben-Chuan; Wang, Shuo; Wiedmann, Steffen; et al., PHYSICAL REVIEW LETTERS, 122(3):** **036602, 2019.**
7. **Dirac Semimetal Heterostructures: 3D Cd3As2 on 2D Graphene，Wu, Yan-Fei; Zhang, Liang; Li, Cai-Zhen et al., ADVANCED MATERIALS 30(34): 1707547, 2018.**
8. **Ultrafast Broadband Charge Collection from Clean Graphene/CH(3)NH(3)Pbl(3) Interface, Hong, Hao; Zhang, Jincan; Zhang, Jin; Qiao, Ruixi; et al., Journal of the American Chemical Society, 140(44):14952-14957, 2018**
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11. **Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating,Xu, Xiaozhi; Yi, Ding; Wang, Zhichang et al.ADVANCED MATERIALS 30(6 )1702944,2018**
12. **Experimentally probing topological order and its breakdown through modular matrices, Luo, ZH (Luo, Zhihuang); Li, J (Li, Jun); Li, ZK (Li, Zhaokai); et al., Nature Physics,14:160, 2018.**
13. **Quantum transport in Dirac and Weyl semimetals: a review, Wang, Shuo; Lin, Ben-Chuan; Wang, An-Qi ;Yu, Da-Peng; et al., ADVANCES IN PHYSICS-X, 2(3):** **518-544, 2017.**
14. **Electronic Coupling between Graphene and Topological Insulator Induced Anomalous Magnetotransport Properties, Zhang, Liang; Lin, Ben-Chuan; Wu, Yan-Fei; et al., ACS Nano,1 1(6):** **6277-6285, 2017.**
15. **Ab initio thermodynamic study on two-dimensional atomic nucleation on ZnO polar surfaces, Zhu, Rui; Zhao, Qing; Xu, Jun; Liu, Banggui; et al., Applied Surface Science, 412: 417-423, 2017.**
16. **Monitoring Local Strain Vector in Atomic-Layered MoSe2 by Second-Harmonic Generation,Liang, Jing; Zhang, Jin; Li, Zhenzhu; et al., NANO LETTERS 17(12)7539-7543, 2017.**
17. **Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil, Xu, Xiaozhi; Zhang, Zhihong; Dong, Jichen et al., Science Bulletin 62(15): 1074-1080, 2017.**
18. **Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films, Gao, Peng; Zhang, Zhangyuan; Li, Mingqiang; et al., Nature Communications 8: 15549,2017.**
19. **Electrical transport in nanothick ZrTe5 sheets: From three to two dimensions, Niu, Jingjing; Wang, Jingyue; He, Zhijie; et al., Physical Review B 95: 035420, 2017.**
20. **Ultrafast growth of single-crystal graphene assisted by a continuous oxygen supply, Xiaozhi Xu , Zhihong Zhang , Kaihui Liu; et al., Nature Nanotechnology, 11(11): 930-935, 2016.**