**硕士研究生国家奖学金候选人评选材料汇总表**

学院：物理学院（加盖公章）

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 姓名 | 学号 | 专业 | 导师 | 科研条件 | 成绩 | 综合测评名次（名次/总人数）（%） |
| 1 | 高芮 | 1802183048 | 凝聚态物理 | 刘海瑞 | 1. Two-dimensional MoS2/GaN van der Waals heterostructures: tunable direct band alignments and excitonic optical properties for photovoltaic applications;《Journal of Physics D: Applied Physics》vol.53. (2019), 095107. SCI三区；第一作者；   <https://iopscience.iop.org/article/10.1088/1361-6463/ab5ab9>   1. Graphene/a-tellurene van der Waals heterobilayers: Interlayer coupling and gate-tunable carrier type and Schottky barriers; 《Applied Surface Science》vol.525. (2020), 146476. SCI二区；第一作者(除导师外)；   <https://scihub.wikicn.top/10.1016/j.apsusc.2020.146476>   1. 2D anisotropic type-I SiS vdW heterostructures toward infrared polarized optoelectronics applications; 《Applied Surface Science》vol.529. (2020), 147026. SCI二区；第一作者；   <https://www.sciencedirect.com/science/article/pii/S0169433220317839> | 88.29 | 1/12(8.3%) |
| 2 | 孙珊 | 1802183035 | 原子与分子物理 | 施德恒 | 1. Modeling effect of the surface oxidization on the normal emissivity of red copper T1 at a wavelength of 1.5m and temperature range from 800 to 1100K ; 《Heat Transfer Research》, vol.50(2019)1251-1263；SCI四区，除导师外第一作者   <https://www.researchgate.net/publication/330749748>   1. Radiative lifetimes of the 11Σ–, 11Δ, 21Σ+, a3Π, 13Σ+, d3Δ, and e3Σ– states of carbon monosulfide. 《Journal of Quantitative Spectroscopy and Radiative Transfer》 (2020):107277.SCI三区**；**第一作者   [https://www.researchgate.net/publication/343822444\_](https://www.researchgate.net/publication/343822444_Radiative_lifetimes_of_the_11S-_11D_21S_a3P_13S_d3D_and_e3S-_states_of_carbon_monosulfide)   1. Radiative properties of the six lowest–lying triplet and four lowest–lying singlet states of boron nitride molecule; 《Journal of Quantitative Spectroscopy and Radiative Transfer》 250(2020):107053.SCI三区**；**第一作者   <https://www.researchgate.net/publication/340970208>   1. Radiative lifetimes of several low–lying doublet and quartet electronic states of diatomic boron carbide;《Journal of Quantitative Spectroscopy and Radiative Transfer》 251(2020):107054.SCI三区**；**第一作者   [https://www.researchgate.net/publication/341604532\_](https://www.researchgate.net/publication/341604532_Radiative_lifetimes_of_several_low-lying_doublet_and_quartet_electronic_states_of_diatomic_boron_carbide) | 87.70 | 1/14(7.1%) |
| 3 | 刘朋飞 | 1802183059 | 材料科学与工程 | 刘志勇 | 1. High-performance perovskite solar cells based on passivating interfacial and intergranular defects; Solar Energy Materials & Solar Cells 212 (2020) 110555; SCI二区；第一作者   <https://doi.org/10.1016/j.solmat.2020.110555>   1. Tuning Surface Wettability of Buffer Layers by Incorporating Polyethylene Glycols for Enhanced Performance of Perovskite Solar Cells; ACS Appl. Mater. Interfaces 2020, 12, 26670−26679；SCI一区；第一作者 (除导师外)   <https://dx.doi.org/10.1021/acsami.0c05527> | 87.14 | 2/12(16.6%) |
| 4 | 刘扬 | 1802183042 | 原子与分子物理 | 刘玉芳 | 1. Theoretical study of the excited state intramolecular double proton transfer and spectral behaviors of 7-hydroxyquinoline-8-carboxylic acid; 《Journal of Molecular Liquids》 vol.302 (2020) 112552. SCI二区；第一作者；   <https://scihub.wikicn.top/10.1016/j.molliq.2020.112552> | 89.30 | 2/14(14.3%) |
| 5 （替补） | 马梓楠 | 1802183049 | 凝聚态物理 | 宋孝辉 | 1. Aqueous synthesis of alloyed CdSex Te1-x colloidal quantum dots and their In-situ assembly within mesoporous TiO2 for solar cells;《Solar Energy》vol.196. (2020), 513-520. SCI二区；第一作者(除导师外)；  <https://www.sciencedirect.com/science/article/pii/S0038092X19312630> | 93.43 | 3/12(25%) |