附件：

**江苏省科学技术奖公示材料**

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| **项目名称（**自然科学奖、科技进步奖填写**）** | 复杂系统高性能保结构算法理论研究与应用 |
| **完成人（**自然科学奖、科技进步奖填写**）** | 王雨顺、宋永忠、蔡文君、龚跃政、蔡加祥 |
| **完成单位（**自然科学奖、科技进步奖填写**）** | 南京师范大学、南京航空航天大学、淮阴师范学院 |
| **代表性论文论著目录、主要知识产权和标准规范目录**  **（**自然科学奖限5篇，科技进步奖限10件，青年科技杰出贡献奖限8篇，参考提名书格式填写**）** | 1. 偏微分方程中的保结构算法（论著）/浙江科学技术出版社/秦孟兆; 王雨顺, 2011. 2. A conservative Fourier pseudo-spectral method for the nonlinear Schrodinger equation/Journal of Computational Physics/Gong, Yuezheng; Cai, Jiangxiang; Wang,Yushun, 328:354-370, 2017. 3. Arbitrarily high-order unconditionally energy stable schemes for thermodynamically consistent gradient flow models/SIAM Journal on Scientific Computing/Gong, Yuezheng; Zhao, Jia; Wang, Qi, 42:B135-B156, 2020. 4. Two energy-conserved splitting methods for three-dimensional time-domain Maxwell’s equations and the convergence analysis/SIAM Journal on Numerical Ananlysis/Cai, Jiaxiang; Hong, Jialin; Wang, Yushun; Gong, Yuezheng, 53:1918-1940, 2015. 5. Numerical dispersion analysis of a multi-symplectic scheme for the three dimensional Maxwell’s equations/Journal of Computational Physics/Cai, Wenjun; Wang, Yushun; Song, Yongzhong, 234:330-352, 2013. |