

## 2000年论文目录

### 被SCI收录的文章目录

1. Experimental studies on long-wavelength instability and spiral breakup in a reaction-diffusion system; L.Q.Zhou, Q.Ouyang, PHYSICAL REVIEW LETTERS 85, 1650 (2000).....1
2. Transition from spirals to defect-mediated turbulence driven by a Doppler instability; Q.Ouyang, HarryL.Swinney, G.Li; PHYSICAL REVIEW LETTERS 84, 1047 (2000).....5
3. Intensity-noise suppression by ytterbium codoping in heavily erbium-doped fiber lasers with partly clustered erbium ions; H.L.An, X.Z.Lin, H.D.Liu; OPTICS LETTERS 25, 1747 (2000).....9
4. Ultraviolet-initiated reactions of H<sub>2</sub> with germanosilicate fibers and H<sub>2</sub> concentration dependence of the Bragg wavelength of a fiber grating; L.B.Fu, G.Tan, W.J.Xu, H.L.An, X.M.Cui, X.Z.Lin, H.D.Liu; OPTICS LETTERS 25, 527 (2000).....11
5. Calculation of combinative energy between perovskite and rocksalt blocks in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-8</sub>; H.Zhang, L.L.Cheng, Y.Zhao; PHYSICAL REVIEW B 62, 13907 (2000).....15
6. Combinative energy between two structural blocks and its correlation with superconductivity in Bi and Hg superconducting systems; H.Zhang, L.L.Cheng, X.C.Qin; PHYSICAL REVIEW B 1, 1618 (2000).....19
7. Strong metal-cage hybridization in endohedral, La@C<sub>82</sub>, Y@C<sub>82</sub> and Sc@C<sub>82</sub> J.Lu; CHEMICAL PHYSICS LETTERS 332, 219 (2000).....24
8. Metal-cage hybridization in endohedral, La@C<sub>60</sub>, Y@C<sub>60</sub> and Sc@C<sub>60</sub>; J.Lu,; CHEMICAL PHYSICS LETTERS 332, 51(2000).....30
9. The power law relation of spiral waves in the Belousov-Zhabotinsky reaction; Y.Li, S.F.Bai, Q.Ouyang,; JOURNAL OF CHEMICAL PHYSICS; 113, 11280 (2000).....37
10. Large and ultrafast third-order optical non-linearity of single-wall carbon nanotubes at 820 nm; S.F.Wang, W.T.Huang, H.Yang, Q.H.Gong; CHEMICAL PHYSICS LETTERS 320, 411 (2000).....41
11. Ultrafast third-order non-linear optical response of Diels-Alder adduct of fullerene C<sub>60</sub> with a metallophthalocyanine; W.T.Huang, S.F.Wang, R.S.Liang, Q.H.Gong; CHEMICAL PHYSICS LETTERS 324, 354 (2000).....45
12. Ultrafast third-order optical nonlinearity of polybenzonitriles; T.Q.Zhang, S.F.Wang, H.Yang, Q.H.Gong; CHEMICAL PHYSICS LETTERS 325, 127 (2000).....50
13. Growth of amorphous silicon nanowires via a solid-liquid-solid mechanism; H.F.Yan, Y.J.Xing, Q.L.Hang, D.P.Yu, Y.P.Wang, J.Xu, Z.H.Xi, S.Q.Feng, CHEMICAL PHYSICS LETTERS

14. Scanning tunneling microscopy investigation of l-Lysine adsorbed on Cu(001); X.Y.Zhao, R.G.Zhao, W.S.Yang; LANGMUIR 16, 9812 (2000).....60
15. First-principles thermodynamic calculations for d-Pu and e-Pu; Y.wang, Y.F.Sun; J.PHYS.:CONDENS.MATTER 12, 311 (2000).....67
16. Measurement of the ultrafast third-order optical nonlinearity of multi-adducts C70 (NH<sub>2</sub>CN)<sub>5</sub> and C70(NH<sub>2</sub>CNNCNH<sub>2</sub>)<sub>5</sub>; R.S.Liang, S.F.Wang, W.T.Huang, Q.H.Gong; J. PHYS. D 33, 2249 (2000).....73
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22. Epitaxial growth of superconducting HgBa<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub> films; G.C.Xiong,J.D.Guo, Y.F.Sun, X.L.XU; PHYSICA C 337, 71 (2000).....104
23. Transport properties of Pr<sub>0.5</sub>Ca<sub>0.5</sub>(Ba<sub>1-x</sub>Srx)2Cu<sub>3</sub>O<sub>7-y</sub> (x=0,0.1,0.2,0.3,) epitaxial thin films; Z.H.Wang, G.J.Lian, Y.F.Sun, G.C.Xiong; PHYSICA C341, 1901(2000).....108
24. Hall coefficients of Pr<sub>0.5</sub>Ca<sub>0.5</sub>(Ba<sub>1-x</sub>Srx)2Cu<sub>3</sub>O<sub>7-y</sub> superconducting thin films with different oxygen contents; Z.H.Wang, Y.F.Sun, G.J.Lian, G.C.Xiong; PHYSICA C 341, 2401 (2000) .....110
25. Interaction of two different structural blocks in Bi-system super-conductors; H.Zhang, L.L.Cheng, L.Zhang; PHYSICA C 341, 175 (2000).....112
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29. The effect of excess current on high-Tc superconducting step-edge Josephson junctions; T.Yang, P.Ma, S.Z.Wang, L.Y.Liu, R.J.Nie, D.F.He, S.G.Wang, Y.D.Dai; PHYSICA C 341, 2707 (2000).....120

30. Improving on the yield and performance of high Tc rf SQUIDs; P.Ma, T.Yang, S.Z.Wang, L.Y.Liu, R.J.Nie, F.X.Xie, D.F.He, S.G.Wang, Y.D.Dai; PHYSICA C 341, 2703 (2000).....122
31. Optimizing the slew rate of SQUID system; F.X.Xie, D.F.He, T.Yang, P.Ma, R.J.Nie, L.Y.Liu, S.G.Wang, S.Z.Wang, Y.D.Dai; PHYSICA C 341, 2719 (2000).....124
32. Fabrication of low noise high-Tc bicrystal junction rf SQUID; F.X.Xie, J.C.Wang, D.F.He, R.J.Nie, T.Yang, P.Ma, L.Y.Liu, Y.D.Dai, S.G.Wang, S.Z.Wang; PHYSICA C 341, 2697 (2000).....126
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39. A new method to determine  $j$  in bulk superconductor from saturated diamagnetic field by magneto-optic imaging; Z.Q.Luo, Y.H.Liu, L.Lu, K.Luo, Z.X.Gao; PHYSICA C 341, 1465 (2000).....146
40. The growth mechanism of silicon nanowires and their quantum confinement effect; S.Q.Feng, D.P.Yu, H.Z.Zhang, Z.G.Bai, Y.Ding; JOURNAL OF CRYSTAL GROWTH 209, 513 (2000).....148
41. Distinguish thermal transitions in different blocks in cuprates; H.Zhang, L.L.Cheng, X.Du, Y.Zhao; MATERIALS SCIENCE & ENGINEERING A 292, 232 (2000).....153
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43. Growth of  $\text{HgBa}_2\text{CaCu}_2\text{O}_y$  films with a buffer layer; Y.Sun, J.D.Guo, X.L.Xu, S.F.Xu, Z.H.Wang, G.J.Lian, G.C.Xiong; SUPERCOND.SCI.TECHNOL 13, 421 (2000).....161
44. Large low-field magnetoresistance observed in heterostructure  $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{Gd}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$  superlattices; G.C.Xiong, G.J.Lian, Z.H.Wang; MATERIALS SCIENCE & ENGINEERING B 76, 10 (2000).....163
45. Mosaic structure and its influence on carrier mobility in undoped hexagonal GaN thin film; X.Du, Y.Z.Wang, L.L.Cheng, G.Y.Zhang, H.Zhang; MATERIALS SCIENCE & ENGINEERING B 75, 228 (2000).....167

46. Effect of zero-dispersion wavelength variation on four-wave mixing in a fiber-loop mirror; Y.Z.He, H.L.An, X.Z.Lin, H.D.Liu; MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 26, 310 (2000).....171
47. Supercontinuum generation in atmospheric-pressure nitrogen using a tightly focused intense femtosecond laser beam; Y.D.Qin, C.J.Zhu, H.Yang, Q.H.Gong; CHIN.PHYS.LETT. 17, 413 (2000).....174
48. Multi-wavelength operation of an Er<sub>3</sub>±doped fiber laser at room temperature with a novel optical fiber mach-zehnder interferometer; H.L.An, X.Z.Lin, H.D.Lu; CHIN.PHYX.LETT. 17, 106 (2000).....177
49. Spin-polarized electron tunneling through a quantum dot; Y.Lu, Q.F.Sun, T.H.Lin; COMMUN.THEOR.PHYS. 34, 583 (2000).....180
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56. Four-wave mixing and all-optical switching in a fiber loop mirror constructed from two dispersion-shifted fibers; Y.Z.He, H.L.An, X.Z.Lin, H.D.Liu; PROCEEDINGS OF SPIE 4225, 53 (2000).....231
57. Index gratings in low glass transition temperature polymer composites based on poly (N-vinylcarbazole); Q.H.Gong, F.Wang, B.Zhang; PROCEEDINGS OF SPIE 3939, 112 (2000) .....236

## 国内期刊论文

1. 天冬氨酸在Cu (001) 表面吸附的扫描隧道显微镜研究; 王浩, 赵学应, 杨威生; 物理学报49, 1316, (2000) .....241
2. 锗硅表面结构和动态过程的STM研究; 盖峥, 杨威生; 电子显微学报 19 (2000) .....245
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7. 光学简并参量振荡中的量子非破坏性测量; 王丹翎, 龚旗煌; 物理学报 49, 1484 (2000) .....272
8. 熔融织构YBCO块材磁通动力学参量的磁光图像研究(II); 罗康, 刘蕴宏, 谢旭, 罗志全, 高政祥; 低温物理学报 22, 353 (2000) .....278
9. Bi-2223/Ag带材超导芯中网状弱超导区的磁光图像研究; 罗志全, 谢旭, 罗康, 高政祥; 低温物理学报 22, 349 (2000) .....283
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## 会议论文

1. 用高T<sub>c</sub>rfSQUID磁强计测量针灸刺激下的心磁图; 马平, 何东风, 谢飞翔, 张升原, 杨涛, 聂瑞娟, 刘乐园, 王守证, 王世光, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 245 (2000)
2. rf SQUID测控系统; 刘新元, 谢飞翔, 何东风, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 211 (2000)
3. SQUID系统的摆率最优化; 谢飞翔, 何东风, 杨涛, 马平, 聂瑞娟, 刘乐园, 王世光, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 215 (2000)
4. SQUID应用中的屏蔽问题研究; 谢飞翔, 杨涛, 马平, 何东风, 聂瑞娟, 刘乐园, 王世光, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 219 (2000)
5. HTc SQUID用于瞬变电磁法大地测量时的测深估计; 戴远东, 谢飞翔; 第五届全国超导薄膜和超导电子器件学术会议论文集 223 (2000)
6. 梳齿式超导共面谐振器; 谢飞翔, 杨涛, 马平, 何东风, 聂瑞娟, 刘乐园, 王世光, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 227 (2000)
7. 小临界电流台阶晶界结YBCO薄膜工艺研究; 刘乐园, 聂瑞娟, 马平, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 231 (2000)
8. 用于平面超导谐振器/磁聚焦器的YBCO薄膜研究; 聂瑞娟, 张升原, 马平, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 234 (2000)
9. 用于衬底台阶制备的离子束刻蚀掩膜; 石玉娇, 张升原, 马平, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 237 (2000)
10. 一种实用rf SQUID探头; 张升原, 谢飞翔, 王守证, 戴远东; 第五届全国超导薄膜和超导电子器件学术会议论文集 237 (2000)
11. 高T<sub>c</sub>氧化物晶界结; 戴远东, 马平; 第五届全国超导薄膜和超导电子器件学术会议论文集 237 (2000)

