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	主讲课程	本科生：稀有气体取原理与方法、膨胀机械、空气调节、制冷原理与设备、热工学、人工环境、制冷与低温原理； 研究生：流态化工程、软物质		
	科研方向	能量的储存、转换与利用；制冷与低温/气体分离； 节能减排新工艺与新技术		
代表性成果 (包含论文、著作、获奖、专利、项目等)	<p>代表性论著：</p> <ol style="list-style-type: none"> <li>1. Chuanping Liu, Hongmei Wan, Li Wang. "Effect of movement direction on resistance force in granular media." Powder Technology 344 (2019) 545 - 550</li> <li>2. Xinglong Zheng, Shaowu Yin, Yulong Ding, Li Wang. "Experimental study on high concentration entrainment of ultrafine powder." Powder Technology 344 (2019) 133 - 139</li> <li>3. Fuweng Zhang, Kevin Cronin, Yinhe Lin, Song Miao, Chuanping Liu, Li Wang. "Sealing pipe top enhancing transportation of particulate solids inside avertically vibrating pipe." Powder Technology 343 (2019) 383 - 391</li> <li>4. Li Li, PingWu, Shiping Zhang, Li Wang. "Patterns of particle convection in a mono-size granular system under coupling vibration and airflow." Powder Technology 342 (2019) 954 - 960</li> <li>5. Li Li, PingWu, Shiping Zhang, Li Wang. "Vertical separation criterion of binary particles under external excitation." Powder Technology 342 (2019) 404 - 408</li> <li>6. Shaowu Yin, Jing Li, Guangsi Shi, Feiyang Xue, Li Wang. "Experiment study on heat transfer characteristics of dusty gas flowing through a granular bed with buried tubes." Applied Thermal Engineering 146 (2019) 396 - 404</li> <li>7. Shaowu Yin, Ying He, Li Wang, Chuanping Liu, Lige Tong, Yulong Ding. "Particulate flow characteristics in a novel moving granular bed." Powder Technology 340 (2018) 217 - 226</li> <li>8. Lige Tong, Pei Zhang, Shaowu Yin, Peikun Zhang, Chuanping Liu, Na Li, Li Wang. "Waste heat recovery method for the air pre-purification system of an air separation unit." Applied Thermal Engineering 143(2018) 123 - 129</li> <li>9. Yuehan Yang, Peikun Zhang, Li Wang. "Parametric analysis of thermal-pulse regeneration of activated alumina in temperature swing adsorption process used for gas dehydration." Applied Thermal Engineering 141 (2018) 762 - 774</li> <li>10. Yanan Li, Ping Wu(Corresponding author), Shiping Zhang, Sen Chen, Dan Yan, JinguangYang, Li Wang, Xiulan Huai. "Thermoelectric properties of lower concentration</li> </ol>			

代表性成果（包含论文、著作、获奖、专利、项目等）

- K-doped  $\text{Ca}_3\text{Co}_4\text{O}_9$  ceramics.” *Phys. B.* 2018, 27(5): 057201
11. Fuweng Zhang, Kevin Cronin, Yinhe Lin, Chuanping Liu, Li Wang. “Effects of vibration parameters and pipe insertion depth on the motion of particles induced by vertical vibration.” *Powder Technology* 333 (2018) 421 - 428
  12. Xiaodong Peng , Xiaohui She, Lin Cong, Tongtong Zhang, Chuan Li, Yongliang Li, Li Wang, Lige Tong, Yulong Ding. “Thermodynamic study on the effect of cold and heat recovery on performance of liquid air energy storage.” *Applied Energy* 221 (2018) 86 - 99
  13. Xianfang Yue; Duncan E. T. Shepherd; Daniel M. Espino; et at, “The Effect of Fluid-structure Interaction in Finite element Analysis of Skull Bone on Relieving Cerebral Injury in a Porcine Model” , *Journal of Advances in Medicine and Medical Research*, 2017, 22(5): 1-24
  14. Zhangping Lei, Chuanping Liu, Li Wang, Na Li. “Effect of natural ventilation on indoor air quality and thermal comfort in dormitory during winter.” *Building and Environment* 125 (2017) 240-247
  15. Chuanping Liu, Hongmei Wan, Li Wang, Ping Wu. “Forces on a cylinder intruder associating rotation and plugging/pulling.” *Powder Technology* 322 (2017) 41 - 46
  16. Kun He, Li Wang. “A review of energy use and energy-efficient technologies for the iron and steel industry.” *Renewable and Sustainable Energy Reviews* 70 (2017) 1022 - 1039
  17. Junxia Zhang, Li Wang. “Experimental study of air accumulation in vapor condensation across horizontal tube.” *International Journal of Heat and Mass Transfer.* 111 (2017) 860 - 870
  18. Peikun Zhang, Li Wang. “Optimal Shut-Down Policy for Air Separation Units in Integrated Steel Enterprises during a Blast Furnace Blow-Down.” *Industrial & Engineering Chemistry Research.* 56 (2017) 2140-2149
  19. Abdul Rehman, Ping Wu, Li Li, Shiping Zhang and Li Wang. “Convection Rolls and Individual Particles Movements in Horizontally Vibrated Granular Particles System.” *Acta Physica Polonica A.* 130 (2016) 1336-1342
  20. Chao Jia, Li Wang, Ran Li, Chuanping Liu. "Experimental study on drying characteristics of wheat by low-field nuclear magnetic resonance". *Drying Technology*, 2017, 35(10), 1258 - 1265
  21. Lifang Zheng, Zhiming Qiao, Xiaohui Xu, Li Wang. “Effects of gamma irradiation on the compression and inter-laminar shear properties of G10 for the BESIII beam pipe supporting flange.” *Fusion Engineering and Design* 117 (2017) 24-29
  22. Abdul Rehman, Ping Wu, Li Li, Shiping Zhang, Li Wang, “Convection Rolls and Individual Particles Movements in Horizontally Vibrated Granular Particles System.” *Acta Physica Polonica A*, 2016 130(6), 1336-1342
  23. Ran Li, Chuanping Liu, Chenwei Zhang, Jianbiao Shen, Li Wang, Chao Jia. “Moisture transformation and transport during the drying process for Radix Paeoniae Alba slices”. *Applied Thermal Engineering* 110 (2017) 25 - 31
  24. Yuanyuan Li, Gang Lei, Yu Sun, Li Wang. “Effect of environmental pressure enhanced by a booster on the load capacity of the aerodynamic gas bearing of a turbo expander.” *Tribology International* 105 (2017) 77 - 84
  25. L. Tong, J. Gu, S. Yin, L. Wang, S. Bai. “Impacts of torch moving on phase change and fluid flow in weld pool of SMAW” *International Journal of Heat and Mass Transfer* 100 (2016) 949 - 957
  26. Bing Ji, Ping Wu, Han Ren, Shiping Zhang, Abdul Rehman, and Li Wang. “Segregation behavior of magnetic ions in continuous flowing solution under gradient magnetic field.” *Chin. Phys. B* Vol. 25, No. 7 (2016) 074704-(1-8)

代表性成果（包含论文、著作、获奖、专利、项目等）

27. Jing Sun, Chuanping Liu, Ping Wu, Zi-Ang Xie, Kaiwei Hu, Li Wang. "Granular core phenomenon induced by convection in a vertically vibrated cylindrical container." *Physical Review E* 94, 002906 (2016)
28. Chao Jia, Chao Chen, Li Wang. "Experimental research of descaling characteristics using circumfluence dilution and uniform-temperature perturbation in a vacuum furnace." *Applied Thermal Engineering* 108 (2016) 847 - 856
29. Chao Jia, Li Wang, Wei Guo, Chuanping Liu. "Effect of swing temperature and alternating airflow on drying uniformity in deep-bed wheat drying." *Applied Thermal Engineering* 106 (2016) 774 - 783
30. L.G. Tong, J.C. Gu, S.W. Yin, L. Wang, S.W. Bai. "Impacts of torch moving on phase change and fluid flow in weld pool of SMAW." *International Journal of Heat and Mass Transfer* 100 (2016) 949-957
31. Jian Huang, Jianbiao Shen, Li Wang. "Experimental Study on the Effect of Interfacial Mass Transfer on Bubble Coalescence." *The Chinese Journal of Process Engineering*.2016.16 (4) 622-628
32. Jianbiao Shen, Li Wang. "Experimental Study on the Effect of Interfacial Mass Transfer on Bubble Coalescence." *The Chinese Journal of Process Engineering*.2016.16 (2) 86-91
33. Jianbiao Shen, Jian Huang, Chuanping Liu, Li Wang (Corresponding author). "Bubble Coalescence Inhibition in Volatile Solutions at Elevated Temperatures." *The Canadian Journal of Chemical Engineering*. 94(2016), 1413-1421
34. Shaowu Yin, Wangyang Tang, Xinglong Zheng, Lige Tong, Li Wang, Chuanping Liu. "Entrainment characteristics of fine particles in fluidized bed under preheating conditions." *Powder Technology* 299 (2016) 150-155
35. Jian Huang, Li Wang, Jianbiao Shen, Chuanping Liu. "Effect of non-condensable gas on the start-up of a gravity loop thermosyphon with gas-liquid separator" . *Experimental Thermal and Fluid Science* 72 (2016) 161 - 170
36. Zhu Jiang, Guanghui Leng, Feng Ye, Zhiwei Ge, Chuanping Liu, Li Wang, Yun Huang, Yulong Ding. "Form-stable LiNO<sub>3</sub> - NaNO<sub>3</sub> - KNO<sub>3</sub> - Ca(NO<sub>3</sub>)<sub>2</sub>/calcium silicate composite phase change material (PCM) for mid-low temperature thermal energy storage" . *Energy Conversion and Management* 106 (2015) 165 - 172
37. Yuanyuan Li, Gang Lei, Yu Sun and Li Wang. "Effects of magnetic flux leakage of axial electromagnetic bearing on bearing system." *International Journal of Applied Electromagnetics and Mechanics*. 48 (2015) 357 - 366
38. Li Yao, Lige Tong, Aijing Zhang, Yunfei Xie, Jianbiao Shen, Huazhi Li, Li Wang and Shiqi Li. "Exergy Analysis for Air Separation Process Under Off-Design Conditions." *J. Energy Resour. Technol* 137(4), 042003
39. Zi-Ang Xie, PingWu, Tang Su, Xiangping Jiang, Li Li, Chao Jia, Shiping Zhang, Chuanping Liu, Li Wang. "Behaviors of spherical intruder in 3-D vertically vibrating granular system with vertical longitudinal air pressure wave." *Powder Technology* 283 (2015) 266 - 285
40. Jian Huang, Junxia Zhang, Li Wang. "Review of vapor condensation heat and mass transfer in the presence of non-condensable gas." *Applied Thermal Engineering* 89 (2015) 469-484
41. Kun He, Hongliang Zhu, Li Wang. "A new coal gas utilization mode in China's steel industry and its effect on power grid balancing and emission reduction." *Applied Energy*, 154 (2015) 644 - 650

代表性成果  
(包含论文、著作、  
获奖、专利、项目等)

42. Bo Wu, Li Wang. "Power-based energy grade study of China's on-grid distributed combined heating and power systems" Applied Thermal Engineering, 2015. 75 (22), 177 - 184
43. Bo Wu, Li Wang. "Comparable analysis methodology of CCHP based on distributed energy system." Energy Conversion and Management 88 (2014) 863 - 871
44. Kaiwei Hu, Zi-Ang Xie, Ping Wu, Jing Sun, Li Li, Chao Jia, Shiping Zhang, Chuanping Liu, Li Wang. "Convecting particle diffusion in a binary particle system under vertical vibration." Soft Matter, 2014, 10, 4348-4359
45. Zi-Ang Xie, PingWu, Wuhao Yang, Jingbing Zhao, Shiping Zhang, Li Li, Sen Chen, Chao Jia, Chuanping Liu, Li Wang. "Distribution of dissipated energy in a multi-size granular system under vertical vibration." Powder Technology. 2014, 260, 1-6
46. Chuanping Liu, Fuweng Zhang, PingWu, Li Wang. "Effect of hoisting tube shape on particle climbing." Powder Technology. 2014, 259, 137-143
47. Fuweng Zhang, Li Wang, Chuanping Liu, Ping Wu, Shuai Zhan. "Patterns of convective flow in a vertically vibrated granular bed." Physics Letters A. 2014, 378, 1303-1308
48. Fuweng Zhang, Li Wang, Chuanping Liu, Shuai Zhan, and Ping Wu. "Lateral Migration of Grains in a Partitioned Container under Vertical Vibration." Journal of the Physical Society of Japan. 2014, 83, 014401
49. Lifang Zheng, Li Wang, Quan Ji, Xunfeng Li, Jianping Liu. "Temperature fields across the BES III beam pipe." Nuclear Instruments and Methods in Physics Research A.2014, 739, 21-25
50. Xia Chen, Li Wang, Lige Tong, Shufeng Sun, Xianfang Yue, Shaowu Yin, Lifang Zheng. "Mode selection of China's urban heating and its potential for reducing energy consumption and CO2 emission" . Energy Policy. 2014, 67, 756-764
51. Bo Wu, Li Wang, "Energy and Exergy Analysis on China's Natural Gas Urban District Heating Systems for Replacing Coal: A Case Study of Beijing" . Distributed Generation and Alternative Energy Journal. 2014, 29 (1), 29-48
52. Chuanping Liu, Ping Wu, Li Wang. "Particle climbing along a vibrating tube: a vibrating tube that acts as a pump for lifting granular materials from a silo." Soft Matter. 2013, 9, 4762-4766
53. Shaowu Yin, Junxia Zhang, Lige Tong, Yuan Yao, Li Wang. "Experimental study on flow patterns for water boiling in horizontal heated tubes." Chemical Engineering Science. 2013, 102, 577 - 584
54. Shaowu Yin, Li Wang, Lige Tong, Fuming Yan, Yanhui Li. "Kinetic study on the direct nitridation of silicon powders diluted with alpha-Si3N4 at normal pressure" . International Journal of Minerals, Metallurgy and Materials. 2013, 20(5), 493
55. Peikun Zhang, Li Wang. "Comparative Study on the Performance of Adsorbent Bed Regenerated by the Clean and Used Purge Gas Heating." Ind. Eng. Chem. Res. 2013, 52, 15912-15922
56. Yanhui Li, Li Wang, Shaowu Yin, Fuming Yang. "Crystallization behavior of amorphous silicon nitride added with silicon powder" . Materials Chemistry and Physics. 2013, 141, 874-881
57. Chuanping Liu, Fuweng Zhang, Li Wang, Shuai Zhan, "An investigation of forces on intruder in a granular material under vertical vibration." Powder Technology. 2013, 247, 14-18
58. Ziang Xie, PingWu, Shuang Wang, Yuming Huang, Shiping Zhang, Sen Chen, Chao Jia, Chuanping Liu, Li Wang. "Behaviour of a Binary Particle System under the Effects of Simultaneous Vertical Vibration and Rotation" , Soft Matter, 2013, 9, 5074—5086
59. Chuanping Liu, Ping Wu, Li Wang. "Particle climbing along a vibrating tube: a vibrating tube that acts as a pump for lifting granular materials from a silo" . Soft Matter, 2013, 9, 4762-4766

代表性成果  
(包含论文、著作、  
获奖、专利、项目等)

60. Chuanping Liu, Ping Wu, Fuweng Zhang, Li Wang. "Particle climbing induced by reciprocating air flow" . Applied Physics Letters. 2013, 102, 183507
61. Xia Chen, Li Wang, Lige Tong, Shufeng Sun, Xianfang Yue, Shaowu Yin, Lifang Zheng. "Energy saving and emission reduction of China' s urban district heating" , Energy Policy. 2013, 55, 677-682
62. Fuming Yang, Li Wang, Shaowu Yin, Yanhui Li, Chuanping Liu, Lige Tong. "Experimental Study on the Entrainment Characteristics of Ultrafine Powder in a Fluidized Bed with Vibrator and Agitator" . Ind. Eng. Chem. Res., 2013, 52 (3), 1359 - 1364
63. Peikun Zhang, Li Wang, "Numerical Analysis on the Performance of the Three-Bed Temperature Swing Adsorption Process for Air Prepurification" . Ind. Eng. Chem. Res., 2013, 52, 885 - 898
64. Zi-Ang Xie, Ping Wu, Shi-Ping Zhang, Sen Chen, Chao Jia, Chuan-Ping Liu, Li Wang. "Separation patterns between Brazilian nut and reversed Brazilian nut of a binary granular system" . Physical Review E.2012, 85, 061302
65. Yanhui Li, Li Wang, Shaowu Yin, Fuming Yang. "Rapid crystallization of amorphous silicon nitride powder accelerated by liquid Si" . Ceramics International. 2012, 38(6), 5311-5314
66. Chuanping Liu, Li Wang, Ping Wu, Fei Xiang. "Size distribution in gas vibration bed and its application on grain drying" . Powder Technology. 2012, 221 192-198.
67. Yanhui Li, Li Wang, Shaowu Yin, Fuming Yang, Ping Wu. "Rapid Crystallization Process of Amorphous Silicon Nitride" . J. Am. Ceram. Soc., 2011, 94(12), 4169-4173
68. Li Wang, Xia Chen, Lu Wang, Shufeng Sun, Lige Tong, Xianfang Yue, Shaowu Yin, Lifang Zheng, "Contribution from Urban Heating to China' s 2020 Goal of Emission Reduction" . Environmental Science & Technology, 2011, 45, 4676-4681
69. Lifang Zheng, Li Wang, Ping Wu, Jianping Liu, "Coolant choice for the central beryllium pipe of the BESIII beam pipe" , Chinese Physics C, 2010, 34(7), 1019-1024
70. Chuanping Liu, Li Wang, Ping Wu, Min Jia, "Effects of Gas Flow on Granular Size Separation" , Physical Review Letters, 2010, 104, 188001/1-4
71. Peikun Zhang, Li Wang. "Extended Langmuir equation for correlating multilayer adsorption equilibrium data" , Separation and Purification Technology, 2010, 70(3), 367-371
72. Fengchao Li, Li Wang, Ping Wu, Shiping Zhang. "Study on gradient magnetic fields of cascading magnets for oxygen enrichment" , J. Phys. D: Appl. Phys. 2009, 42, 185003
73. Zhigang Li, Xiulan Huai, Li Wang, "Influence of Longitudinal Rise of Coolant Temperature on the Thermal Strain in a Cylindrical Laser Rod" , Optics Letters, 2009, 34(2), 187-189
74. Lifang Zheng, Li Wang, Ping Wu, Quan Ji, Xunfeng Li, Xuan Liu, Jianping Liu, "Radiation effects on the mechanical properties of the material for the BESIII beam pipe supporting flange" , Nucl. Instrum. Methods Phys. Res. A, Accel. Spectrom. Detect. Assoc. Equip., 2008, 596(3), 347-353
75. Lifang Zheng, Ji Quan, Li Wang, Xunfeng Li, Shaowang Xu, Sujun Dong, Libin Li, Jianping Liu, "Structure design of the Beijing Spectrometer III beam pipe" , Chinese Journal of Mechanical Engineering, 2008, 21(3), 1-6
76. Xunfeng Li, Quan Ji, Li Wang, Lifang Zheng. "Design and cooling of BESIII beryllium beam pipe" , Nucl. Instrum. Methods Phys. Res. A, Accel. Spectrom. Detect. Assoc. Equip., 2008, 585(1-2), 40-47
77. Jun Cai, Li Wang, Ping Wu, Zhengqiang Li, Lige Tong, Shufeng Sun, "Study on oxygen enrichment from air by application of the gradient magnetic field" , Journal of Magnetism and Magnetic Materials, 2008, 320(3-4), 171-181

代表性成果  
(包含论文、著作、  
获奖、专利、项目等)

78. Chuanping Liu, Ping Wu, Fuweng Zhang, Li Wang. "Particle climbing induced by reciprocating air flow" . Applied Physics Letters. 2013, 102, 183507
79. Xia Chen, Li Wang, Lige Tong, Shufeng Sun, Xianfang Yue, Shaowu Yin, Lifang Zheng. "Energy saving and emission reduction of China' s urban district heating" , Energy Policy. 2013, 55, 677-682
80. Fuming Yang, Li Wang, Shaowu Yin, Yanhui Li, Chuanping Liu, Lige Tong. "Experimental Study on the Entrainment Characteristics of Ultrafine Powder in a Fluidized Bed with Vibrator and Agitator" . Ind. Eng. Chem. Res., 2013, 52 (3), 1359 - 1364
81. Peikun Zhang, Li Wang, "Numerical Analysis on the Performance of the Three-Bed Temperature Swing Adsorption Process for Air Prepurification" . Ind. Eng. Chem. Res., 2013, 52, 885 - 898
82. Zi-Ang Xie, Ping Wu, Shi-Ping Zhang, Sen Chen, Chao Jia, Chuan-Ping Liu, Li Wang. "Separation patterns between Brazilian nut and reversed Brazilian nut of a binary granular system" . Physical Review E.2012, 85, 061302
83. Yanhui Li, Li Wang, Shaowu Yin, Fuming Yang. "Rapid crystallization of amorphous silicon nitride powder accelerated by liquid Si" . Ceramics International. 2012, 38(6), 5311-5314
84. Chuanping Liu, Li Wang, Ping Wu, Fei Xiang. "Size distribution in gas vibration bed and its application on grain drying" . Powder Technology. 2012, 221 192-198.
85. Yanhui Li, Li Wang, Shaowu Yin, Fuming Yang, Ping Wu. "Rapid Crystallization Process of Amorphous Silicon Nitride" . J. Am. Ceram. Soc., 2011, 94(12), 4169-4173
86. Li Wang, Xia Chen, Lu Wang, Shufeng Sun, Lige Tong, Xianfang Yue, Shaowu Yin, Lifang Zheng, "Contribution from Urban Heating to China' s 2020 Goal of Emission Reduction" . Environmental Science & Technology, 2011, 45, 4676-4681
87. Lifang Zheng, Li Wang, Ping Wu, Jianping Liu, "Coolant choice for the central beryllium pipe of the BESIII beam pipe" , Chinese Physics C, 2010, 34(7), 1019-1024
88. Chuanping Liu, Li Wang, Ping Wu, Min Jia, "Effects of Gas Flow on Granular Size Separation" , Physical Review Letters, 2010, 104, 188001/1-4
89. Peikun Zhang, Li Wang. "Extended Langmuir equation for correlating multilayer adsorption equilibrium data" , Separation and Purification Technology, 2010, 70(3), 367-371
90. Fengchao Li, Li Wang, Ping Wu, Shiping Zhang. "Study on gradient magnetic fields of cascading magnets for oxygen enrichment" , J. Phys. D: Appl. Phys. 2009, 42, 185003
91. Zhigang Li, Xiulan Huai, Li Wang, "Influence of Longitudinal Rise of Coolant Temperature on the Thermal Strain in a Cylindrical Laser Rod" , Optics Letters, 2009, 34(2), 187-189
92. Lifang Zheng, Li Wang, Ping Wu, Quan Ji, Xunfeng Li, Xuan Liu, Jianping Liu, "Radiation effects on the mechanical properties of the material for the BESIII beam pipe supporting flange" , Nucl. Instrum. Methods Phys. Res. A, Accel. Spectrom. Detect. Assoc. Equip., 2008, 596(3), 347-353
93. Lifang Zheng, Ji Quan, Li Wang, Xunfeng Li, Shaowang Xu, Sujun Dong, Libin Li, Jianping Liu, "Structure design of the Beijing Spectrometer III beam pipe" , Chinese Journal of Mechanical Engineering, 2008, 21(3), 1-6
94. Xunfeng Li, Quan Ji, Li Wang, Lifang Zheng. "Design and cooling of BESIII beryllium beam pipe" , Nucl. Instrum. Methods Phys. Res. A, Accel. Spectrom. Detect. Assoc. Equip., 2008, 585(1-2), 40-47
95. Jun Cai, Li Wang, Ping Wu, Zhengqiang Li, Lige Tong, Shufeng Sun, "Study on oxygen enrichment from air by application of the gradient magnetic field" , Journal of Magnetism and Magnetic Materials, 2008, 320(3-4), 171-181

代表性成果（包含论文、著作、获奖、专利、项目等）

96. Jun Cai, Li Wang, Ping Wu. "Oxygen enrichment from air by using the interception effect of gradient magnetic field on oxygen molecules". Physics Letters A, 2007, 362(2-3), 105-108
97. Li Wang, Ping Wu, Jing Yang, Xuezi Ni. "Modeling of heat transfer between a high-temperature fluidized bed and an immersed surface by a surface-particle-emulsion model". Chemical Engineering Science. 2007, 62(1-2)
98. Jun Cai, Li Wang, Ping Wu. "Oxygen Separation from Atmospheric Air by Using Gradient Magnetic Field". Jpn. J. App. Phys., Part 2, 2006, 45 (38), L1039~L1041
99. Li Wang, Ping Wu, Xuezi Ni. "Combustion of liquid petroleum gas in a fluidized bed furnace with a jetting-mixing distributor". Powder Technology. 2006, 170(2), 86-93
100. Yanping Zhang, Li Wang, "A stochastic model of bubble distribution in gas-solid fluidized beds", Journal of University of Science & Technology Beijing, 2006, 13(3), 222-225
101. Li Wang, Ping Wu, Xuezi Ni. "Surface-Particle-Emulsion Model of heat transfer between a fluidized bed and an immersed surface." Powder Technology. 2005, 149(2-3), 127-138
102. Li Wang, Ping Wu, Yanping Zhang, Jing Yang, Lige Tong, Xuezi Ni. "Effects of solid particle properties on heat transfer between high-temperature gas fluidized bed and immersed surface", Applied Thermal Engineering, 2004, 24(14-15), 2145-2156
103. Jing Yang, Li Wang, Fi Xiang, Lige Tong, and Hua Su, "Experiment research on grain drying process in heat pump assisted fluidized beds", Journal of University of Science & Technology Beijing, 2004, 11(4), 373-377
104. Jing Yang, Li Wang, Lige Tong, Huazhi Li. "Modeling of radiative heat transfer between high-temperature fluidized beds and immersed walls." Chemical Engineering Science. 2004, 59(15), 3195-3199
105. Li Wang, Ping Wu, Xuezi Ni, Xu Feng. "Structure and Characteristics of a Backfire Proof Distributor." Powder Technology. 2004, 140(1-2), 17-20
106. 王立, 厉彦忠, 张华, "低温工艺与装置", 机械工业出版社, 2018
107. 王立, 童莉葛, "热能与动力工程专业实习教程", 机械工业出版社, 2010
108. 岳献芳, 王立, "颅内压监测及微创应变电测新方法", 科学出版社, 2008
109. 蔡军, 王立, "磁致气流行为及其在氧气富集领域的应用", 冶金工业出版社, 2008
110. 王立, "稀有气体的制取原理与方法", 冶金工业出版社, 1993 成就及业绩

**获奖:**

先后发表学术论文 300 余篇, 著作 4 部, 获国家专利 30 项, 省部级科技进步奖 8 项, 国家级教育教学奖 1 项, 省部级教育教学奖 3 项。曾获中国青年科技奖和全国优秀教师荣誉称号。