

Refereed Publications

Scholarly books:

1. **O. V. Shcherbakova, A. V. Pan, S. X. Dou**, “Magnesium diboride superconductors: development and properties”, Published by VDM Verlag Dr. Muller Aktiengesellschaft & Co. KG (2009).
2. **W. X. Li and S. X. Dou**, “Superconducting properties of carbonaceous chemical doped MgB₂,” Adir Moysés Luiz (editor) Superconductor, ISBN 978-953-307-107-7, published by Sciyo (2010).
3. **S. Aminorroaya**, “Effect of titanium addition to low carbon, low manganese steels on sulphide precipitation”, Publisher: VDM Verlag Dr. Muller, ISBN-13: 978-3639236590 (2010).

Refereed Journal Articles:

1. **S. Aminorroaya, H. K. Liu, Y. Cho, and A. Dahle**, “Microstructure and activation characteristics of Mg-Ni alloy modified by multi-walled carbon nanotubes”, *International Journal of Hydrogen Energy* **35**, 4144 (2010). (IF: 3.945, ARC ERA Ranking: A)
2. **S. Aminorroaya and H. Liu**, “Hydrogen storage properties of Mg-Ni Alloy catalysed by multi-walled carbon nanotubes”, *Materials Science Forum* **654-656**, 2843 (2010). (IF: N/A, ARC ERA Ranking: C)
3. **S. Aminorroaya, A. Ranjbar, H. K. Liu, Y. Cho, and A. K Dahle**, “Structural study and hydrogen sorption kinetics of ball-milled samples of cast Mg-10%Ni catalysed by Nb”, *Ceramic Transactions* **224**, 17 (2010). (IF: N/A, ARC ERA Ranking: N/A)
4. **Y. S. Ang, S. Sultan and C. Zhang**, “Nonlinear optical spectrum of bilayer graphene in the terahertz regime”, *Applied Physics Letters* **97**(24), 243110 (2010). (IF: 3.554, ARC ERA Ranking: A*)
5. **C. Z. Chen, C. B. Cai, Z. Y. Liu, L. Peng, B. Gao, F. Fan, Y. M. Lu, R. Zeng, Z. P. Guo, W. X. Li and S. X. Dou**, “Stress evolution and lattice distortion induced by thickness variation and lattice misfit in La_{0.67}Sr_{0.33}MnO_{3-delta}”, *Solid State Communications* **150**(1-2), 66 (2010). (IF: 1.837, ARC ERA Ranking: B)
6. **L. Chen, Z. S. Ma and C. Zhang**, “Vertical absorption edge and temperature dependent resistivity in semihydrogenated graphene”, *Applied Physics Letters* **96**(2), 023107 (2010). (IF: 3.554, ARC ERA Ranking: A*)

7. **Z. X. Cheng, X. L. Wang, H. Y. Zhao and H. Kimura**, “Lead-free potassium bismuth titanate thin film with complex Aurivillius layer structure”, *Journal of Applied Physics* **107**(8), 084105 (2010). (IF: 2.072, ARC ERA Ranking: A)
8. **Z. X. Cheng, X. L. Wang, Y Du and S. X. Dou**, “A way to enhance the magnetic moment of multiferroic bismuth ferrite”, *Journal of Physics D* **43**(24), 242001 (2010). (IF: 2.083, ARC ERA Ranking: A)
9. **S. L. Chou, J. Z. Wang, D. Wexler, K. Konstantinov, C. Zhong, H. K. Liu and S. X. Dou**, “High-surface-area alpha-Fe₂O₃/carbon nanocomposite: one-step synthesis and its highly reversible and enhanced high-rate lithium storage”, *Journal of Materials Chemistry* **20**(11), 2092 (2010). (IF: 4.795, ARC ERA Ranking: A)
10. **S. L. Chou, J. Z. Wang, M. Choucair, H. K. Liu, J. A. Stride and S. X. Dou**, “Enhanced reversible lithium storage in a nanosize silicon/graphene composite”, *Electrochemistry Communications* **12**(2), 303 (2010). (IF: 4.243, ARC ERA Ranking: A)
11. **S. L. Chou, Y. Zhao, J. Z. Wang, Z. X. Chen, H. K. Liu and S. X. Dou**, “Silicon/single-walled carbon nanotube composite paper as a flexible anode material for lithium ion batteries”, *Journal of Physical Chemistry C* **114**(37), 15862 (2010). (IF: 4.224, ARC ERA Ranking: A*)
12. **S. L. Chou, J. Z. Wang, H. K. Liu, and S. X. Dou**, “Electrochemical deposition of porous VO_x and MnO₂ nanowires on stainless steel mesh for flexible supercapacitors”, *Advanced Science Letters* **3**(3), 295 (2010). (IF: N/A, ARC ERA Ranking: N/A)
13. **E. Constable, J. Horvat and R. A. Lewis**, “Mechanisms of x-ray emission from peeling adhesive tape”, *Applied Physics Letters* **97**(13), 131502 (2010). (IF: 3.554, ARC ERA Ranking: A*)
14. **G. D. Du, C. Zhong, P. Zhang, Z. P. Guo, Z. X. Chen and H. K. Liu**, “Tin dioxide/carbon nanotube composites with high uniform SnO₂ loading as anode materials for lithium ion batteries”, *Electrochimica Acta* **55**(7), 2582 (2010). (IF: 3.325, ARC ERA Ranking: A)
15. **G. D. Du, Z. P. Guo, S. Q. Wang, R. Zeng, Z. X. Chen and H. K. Liu**, “Superior stability and high capacity of restacked molybdenum disulfide as anode material for lithium ion batteries”, *Chemical Communications* **46**(7), 1106 (2010). (IF: 5.504, ARC ERA Ranking: A)
16. **G. D. Du, Z. P. Guo, P. Zhang, Y. Li, M. B. Chen, D. Wexler and H. K. Liu**, “SnO₂ nanocrystals on self-organized TiO₂ nanotube array as three-dimensional electrode for lithium ion microbatteries”, *Journal of Materials Chemistry* **20**(27), 5689 (2010). (IF: 4.795, ARC ERA Ranking: A)

17. **Y. Du, Z. X. Cheng, M. Shahbazi, E. W. Collings, S. X. Dou and X. L. Wang**, “Enhancement of ferromagnetic and dielectric properties in lanthanum doped BiFeO₃ by hydrothermal synthesis”, *Journal of Alloys and Compounds* **490**(1-2), 637 (2010). (IF: 2.135, ARC ERA Ranking: A)
18. **Y. Du, Z. X. Cheng, S. X. Dou, M. Shahbazi, and X. L. Wang**, “Enhancement of magnetization and dielectric properties of chromium-doped BiFeO₃ with tunable morphologies” *Thin Solid Films* **518**, e5 (2010). (IF: 1.727, ARC ERA Ranking: A)
19. **Y. Du, Z. X. Cheng, X. L. Wang and S. X. Dou**, “Structure, magnetic, and thermal properties of Nd_{1-x}La_xCrO₃ (0 ≤ x ≤ 1.0)”, *Journal of Applied Physics* **108**(9), 093914 (2010). (IF: 2.072, ARC ERA Ranking: A)
20. **Y. Du, Z. X. Cheng, S. X. Dou, X. L. Wang, H. Y. Zhao and H. Kimura**, “Magnetic properties of Bi₂FeMnO₆: A multiferroic material with double-perovskite structure”, *Applied Physics Letters* **97**(12), 122502 (2010). (IF: 3.554, ARC ERA Ranking: A*)
21. **Y. Du, Z. X. Cheng, S. X. Dou and X. L. Wang**, “Effect of chromium substitution on structure and magnetic properties of Bi₂Fe₄O₉”, *Materials Letters* **64**(20), 2251 (2010). (IF: 1.940, ARC ERA Ranking: B)
22. **L. M. Fang, X. T. Zu, C. M. Liu, Z. J. Li, G. Peleckis, S. Zhu, H. K. Liu and L. M. Wang**, “Microstructure and magnetic properties in Sn_{1-x}Fe_xO₂ (x=0.01, 0.05, 0.10) nanoparticles synthesized by hydrothermal method”, *Journal of Alloys and Compounds* **491**(1-2), 679 (2010). (IF: 2.135, ARC ERA Ranking: A)
23. **X. P. Fang, X. Lu, X. W. Guo, Y. Mao, Y. S. Hu, J. Z. Wang, Z. X. Wang, F. Wu, H. K. Liu and L. Q. Chen**, “Electrode reactions of manganese oxides for secondary lithium batteries”, *Electrochemistry Communications* **12**(11), 1520 (2010). (IF: 4.243, ARC ERA Ranking: A)
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26. **C. Q. Feng, H. Li, P. Zhang, Z. P. Guo and H. K. Liu**, “Synthesis and modification of non-stoichiometric spinel (Li_{1.02}Mn_{1.90}Y_{0.02}O_{4-y}F_{0.08}) for lithium-ion batteries”, *Materials Chemistry and Physics* **119**(1-2), 82 (2010). (IF: 2.015, ARC ERA Ranking: B)
27. **J. Foroughi, S. R. Ghorbani, G. Peleckis, G. M. Spinks, G. G. Wallace, X. L. Wang and S. X. Dou**, “The mechanical and the electrical properties of conducting

- polypyrrole fibers”, *Journal of Applied Physics* **107**(10), 103712 (2010). (IF: 2.072, ARC ERA Ranking: A)
28. **P. F. Gao, Y. Nuli, Y. S. He, J. Z. Wang, A. L. Minett, J. Yang, and J. Chen**, “Direct scattered growth of MWNT on Si for high performance anode material in Li-ion batteries”, *Chemical Communications* **46**, 9149 (2010). (IF: 5.504, ARC ERA Ranking: A)
 29. **S. R. Ghorbani, X. L. Wang, M. S. A. Hossain, S. X. Dou and S. I. Lee**, “Coexistence of the δl and δT_c flux pinning mechanisms in nano-Si-doped MgB_2 ”, *Superconductor Science and Technology* **23**(2), 025019 (2010). (IF: 2.694, ARC ERA Ranking: B)
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 31. **Y. H. Guo, W. W. Sun, Z. P. Guo, H. K. Liu, D. L. Sun, X. B. Yu**, “Dehydrogenation promotion of $LiBH_4$ center dot NH_3 through heating in ammonia or mixing with metal hydrides”, *Journal of Physical Chemistry C* **114**(29), 12823 (2010). (IF: 4.224, ARC ERA Ranking: A*)
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 33. **M. F. Hassan, Z. P. Guo, Z. Chen and H. K. Liu**, “Carbon-coated MoO_3 nanobelts as anode materials for lithium-ion batteries”, *Journal of Power Sources* **195**(8), 2372 (2010). (IF: 3.792, ARC ERA Ranking: B)
 34. **M. F. Hassan, M. M. Rahman, Z. P. Guo, Z. X. Chen and H. K. Liu**, “ SnO_2 -NiO-C nanocomposite as a high capacity anode material for lithium-ion batteries”, *Journal of Materials Chemistry* **20**(43), 9707 (2010). (IF: 4.795, ARC ERA Ranking: A)
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 37. **J. H. Kim, Y. U. Heo, A. Matsumoto, H. Kumakura, M. Rindfleisch, M. Tomsic, and S. X. Dou**, “Comparative study of mono- and multi-filament MgB_2 wires with

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 39. **D. Li, Y. D. Huang, D. Z. Jia, Z. P. Guo and S. J. Bao**, “Synthesis and electrochemical properties of nanosized carbon-coated $\text{Li}_{1-3x}\text{La}_x\text{FePO}_4$ composites”, *Journal of Solid State Electrochemistry* **14**(5), 889 (2010). (IF: 1.821, ARC ERA Ranking: C)
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 42. **B. Liu, Z. P. Guo, G. D. Du, Y. Nuli, M. F. Hassan, and D. Z. Jia**, “In situ synthesis of ultra-fine, porous, tin oxide-carbon nanocomposites via a molten salt method for lithium-ion batteries”, *Journal of Power Sources* **195**(16), 5382 (2010). (IF: 3.792, ARC ERA Ranking: B)
 43. **H. Liu, J. Park and G. X. Wang**, “Nanosize SnO_2 for highly responsive gas sensor application”, *Sensor Letters* **8**(2), 243 (2010). (IF: 0.626, ARC ERA Ranking: C)
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 45. **J. Liu, W. J. Wang, Z. P. Guo, R. Zeng, S. X. Dou and X. L. Chen**, “Peashell-like nanostructure-a new kind of one-dimensional nanostructure: the case of magnesium oxide”, *Chemical Communications* **46**(22), 3887 (2010). (IF: 5.504, ARC ERA Ranking: A)
 46. **P. Liu, Z. X. Cheng, Y. Du and X. L. Wang**, “Enhanced magnetic moment in ErMnO_3 by copper doping and negative magnetocapacitance effect”, *Journal of Physics D* **43**(32), 325002 (2010). (IF: 2.083, ARC ERA Ranking: A)
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50. **Z. Messai, Z. Ouennoughi, T. Devers, T. Mouet, V. Harel, K. Konstantinov, and N. Bouguechal**, “Growth and characteristics of ZnO electrodeposited nano-aggregates onto p-Si(111)”, *Applied Surface Science* **257**, 616 (2010). (IF: 1.616, ARC ERA Ranking: B)
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52. **M. Mustapic, D. Pajic, N. Novosel, E. Babic, K. Zadro, M. Cindric, J. Horvat, Z. Skoko, M. Bijelic and A. Shcherbakov**, “Synthesis, structural characterization and magnetic properties of iron boride nanoparticles with or without silicon dioxide coating”, *Croatica Chemica Acta* **83**(3), 275 (2010). (IF: 0.805, ARC ERA Ranking: C)
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54. **L. Noerochim, J. Z. Wang, S. L. Chou, H. J. Li and H. K. Liu**, “ SnO_2 -coated multiwall carbon nanotube composite anode materials for rechargeable lithium-ion batteries”, *Electrochimica Acta* **56**(1), 314 (2010). (IF: 3.325, ARC ERA Ranking: A)
55. **P. Photongkam, Y. B. Zhang, M. H. N. Assadi, S. Li, D. Yu, M. Ionescu and A. V. Pan**, “Enhancement of Co substitution induced by Eu codoping in ZnO-based diluted magnetic semiconducting thin films”, *Journal of Applied Physics* **107**(3), 033909 (2010). (IF: 2.072, ARC ERA Ranking: A)
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- Li_2O_2 ”, *Journal of Power Sources* **195**, 4297 (2010). (IF: 3.792, ARC ERA Ranking: B)
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60. **M. M. Rahman, J. Z. Wang, N. H. Idris, Z. X. Chen and H. K. Liu**, “Enhanced lithium storage in a $\text{VO}_2(\text{B})$ -multiwall carbon nanotube microsheet composite prepared via an in situ hydrothermal process”, *Electrochimica Acta* **56**(2), 693 (2010). (IF: 3.325, ARC ERA Ranking: A)
61. **A. Ranjbar, M. Ismail, Z. P. Guo, X. B. Yu and H. K. Liu**, “Effects of CNTs on the hydrogen storage properties of MgH_2 and MgH_2 -BCC composite”, *International Journal of Hydrogen Energy* **35**, 7821 (2010). (IF: 3.795, ARC ERA Ranking: A)
62. **A. R. Ranjbartoreh and G. X. Wang**, “Consideration of mechanical properties of single-walled carbon nanotubes under various loading conditions”, *Journal of Nanoparticle Research* **12**(2), 537 (2010). (IF: 2.478, ARC ERA Ranking: A)
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66. **X. P. Shen, J. Q. Sun, G. X. Wang, J. Park and K. M. Chen**, “A facile single-source approach to urchin-like NiS nanostructures”, *Materials Research Bulletin* **45**(7), 766 (2010). (IF: 1.879, ARC ERA Ranking: B)
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