

REFEREED ARTICLES

1.	Photo-fluorescent and magnetic properties of iron oxide nanoparticles for biomedical applications Donglu Shi, M. E. Sadat, Andrew W. Dunn, David B. Mast <i>Nanoscale</i> (2015) 7 8209-8232
2.	Magnetothermally responsive star-block copolymeric micelles for controlled drug delivery and enhanced thermo-chemotherapy Li Deng, Jie Ren, Jianbo Li, Junzhao Leng, Yang Qu, Chao Lin and Donglu Shi <i>Nanoscale</i> (2015), 00, 1–9 1
3.	Disulfide-Bridged Cleavable PEGylation in Polymeric Nanomedicine for Controlled Therapeutic Delivery Haiqing Dong, Bin He, Yan Li, Min Tang, Yongyong Li , Donglu Shi <i>Nanomedicine</i> (2015) 10(1258): 1941- 58
4.	Nanospherical Surface-supported Seeded Growth of Au Nanowires: Investigation on A New Growth Mechanism and High-performance Hydrogen Peroxide Sensors Ying Li, Lianhai Zu, Guanglei Liu, Yao Qin, Donglu Shi, Jinhu Yang <i>Particle & Particle Systems Characterization</i> (2015) 32 498-504
5.	Particle Systems for Stem Cell Applications Xiaowei Li, Xiaoyan Liu, Donglu Shi, Xuejun Wen <i>Journal of Biomedical Nanotechnology</i> (2015) 11 1107-1123
6.	Graphene-based nanovehicles for photodynamic medical therapy Yan Li, Haiqing Dong, Yongyong Li, Donglu Shi <i>International Journal of Nanomedicine</i> (2015) 10 2451-2459
7.	An advanced electrocatalyst with exceptional eletrocatalytic activity via ultrafine Pt-based trimetallic nanoparticles on pristine graphene Jian Zhao, Hongqi Li, Zhensheng Liu, Wenbin Hu, Changzhi Zhao, Donglu Shi <i>Carbon</i> (2015) 87 116-127
8.	Detection of Mycobacterium tuberculosis based on H ₃₇ R _v binding peptides using surface functionalized magnetic microspheres coupled with quantum dots – a nano detection method for Mycobacterium tuberculosis Hua Yang, Hui Ma, Yilong Wang, Bingbo Zhang, Lianhua Qin, Zhonghua Liu, Junmei Lu, Xiaochen Huang, Jie Wang, Donglu Shi, Zhongyi Hu <i>International Journal of Nanomedicine</i> (2015) 10 77-88
9.	Light-Concentrating Plasmonic Au Superstructures with Significantly Visible-Light-Enhanced Catalytic Performance Jinhu Yang, Ying Li, Lianhai Zu, Lianming Tong, Guanglei Liu, Yao Qin, Donglu Shi <i>ACS Applied Materials & Interfaces</i> (2015) 7 (15), 8200-8208
10.	Preparation of Spherical Caged Superparamagnetic Nanocomposites with Completed Inorganic Shell via a Modified Miniemulsion Technology Tian Li, Xiao Han, Yilong Wang, Feng Wang, Donglu Shi <i>Colloids Surf Physicochem Eng Aspects</i> (2015) 477 84-89
11.	Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe ₃ O ₄ nanoparticles for biomedical applications M. E. Sadat, Masoud Kaveh, Andrew W. Dunn, H. P.Wagner, Rodney C. Ewing, Jiaming Zhang, Hong Xu, Giovanni M Pauletti, David B. Mast, Donglu Shi <i>Applied Physics Letters</i> , 105, 091903 (2014)

12.	Three-dimensional graphitized carbon nanovesicles for high-performance supercapacitors based on ionic liquids Chengxin Peng, Zubiao Wen, Yao Qin, Lukas Schmidt-Mende, Chongzhong Li, Shihe Yang, Donglu Shi, and Jinhu Yang <i>ChemSusChem</i> (2014) 7 777-784
13.	Fabrication of hierarchical core-shell Au@ZnO heteroarchitectures initiated by heteroseed assembly for photocatalytic applications Yao Qin, Yanjie Zhou, Jie Li, Jie Ma, Donglu Shi, Junhong Chen, Jinhu Yang <i>J Colloid Interface Sci</i> (2014) 418 171-177
14.	Spinous TiO ₂ and Au@TiO ₂ octahedral nanocages: Amorphisity-to-crystallinity transition-driven surface structural construction and photocatalytic study Jie Li, Lianhai Zu, Ying Li, Chao Jin, Yao Qin, Donglu Shi, Jinhu Yang <i>J Colloid Interface Sci</i> (2014) 426 90-98
15.	Suppression of VEGF by Reversible-PEGylated Histidylated Polylysine in Cancer Therapy Xiaojun Cai, Haiyan Zhu, Haiqing Dong, Yongyong Li, Jiansheng Su, Donglu Shi <i>Advanced Healthcare Materials</i> (2014) 3 1818-1827
16.	Enhanced synergism of thermo-chemotherapy by combining highly efficient magnetic hyperthermia with magnetothermally-facilitated drug release Yang Qu, Jianbo Li, Jie Ren, Junzhao Leng, Chao Lin, and Donglu Shi <i>Nanoscale</i> (2014) 6 12408-12413
17.	Inhibition of glioma proliferation and migration by magnetic nanoparticle mediated JAM-2 silencing Lifeng Qi, Jing Liu, Haiyan Zhu, Zhuoquan Li, Kun Lu, Tian Li, Donglu Shi <i>J Mater Chem B. The Royal Society of Chemistry</i> (2014) 2 7168-7175
18.	Effect of physiochemical property of Fe ₃ O ₄ particle on magnetic lateral flow immunochromatographic assay Jun Yan, Yingying Liu, Yilong Wang, Xiaowei Xu, Ying Lu, Yingjie Pan, Fangfang Guo, Donglu Shi <i>Sensors Actuators B: Chem</i> (2014) 197 129-136
19.	Pluronic-encapsulated natural chlorophyll nanocomposites for in vivo cancer imaging and photothermal/photodynamic therapies Maoquan Chu, Haikuo Li, Qiang Wu, Fangjie Wo, Donglu Shi <i>Biomaterials</i> 35 (2014) 8357e8373
20.	Surface engineered antifouling optomagnetic SPIONs for bimodal targeted imaging of pancreatic cancer cells Xiaohui Wang, Xiaohong Xing, Bingbo Zhang, Fengjun Liu, Yingsheng Cheng, Donglu Shi <i>International Journal of Nanomedicine</i> (2014) 9 1601-1615
21.	Nanostructured Mesoporous Silica Wires with Intrawire Lamellae via Evaporation-Induced Self-Assembly in Space-Confined Channels Michael Z. Hu, Donglu Shi, and Douglas A. Blom <i>Journal of Nanomaterials</i> , Volume (2014), Article ID 932160
22.	Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe ₃ O ₄ nanoparticles for biomedical applications M.E. Sadat, Ronak Patel, Jason Sookoor, Sergey L. Bud'ko, Rodney C. Ewing, Jiaming Zhang, Hong Xu, Yilong Wang, Giovanni M. Pauletti, David B. Mast, Donglu Shi <i>Materials Science and Engineering C</i> 42 (2014) 52-63

23.	Dipole-interaction mediated hyperthermia heating mechanism of nanostructured Fe ₃ O ₄ composites M.E. Sadat, Ronak Patel, Sergey L. Bud'ko, Rodney C. Ewing, Jiaming Zhang, Hong Xu, David B. Mast, Donglu Shi <i>Materials Letters</i> 129 (2014) 57–60
24.	Dual Surface-functionalized Janus Nanocomposites of Polystyrene/Fe ₃ O ₄ @SiO ₂ for Simultaneous Tumor Cell Targeting and Stimulus-induced Drug Release Feng Wang, G. M. Pauletti, Juntao Wang, J. M. Zhang, R. C. Ewing, Y L Wang, Donglu Shi <i>Advanced Materials</i> (2013), DOI: 10.1002/adma.201301376
25.	JAM-2 siRNA intracellular delivery and real-time imaging by proton-sponge coated quantum dots Lifeng Qi, Weijun Shao and Donglu Shi <i>J. Mater. Chem. B</i> , (2013), 1, 654–660
26.	Near-infrared laser light mediated cancer therapy by photothermal effect of Fe ₃ O ₄ magnetic nanoparticles Maoquan Chu, Yuxiang Shao, Jinliang Peng, Xiangyun Dai, Haikuo Li, Qingsheng Wu, Donglu Shi <i>Biomaterials</i> 34 (2013) 4078–4088
27.	Effect of lanthanum content and substrate strain on structural and electrical properties of lead lanthanum zirconate titanate thin films Sheng Tong, Manoj Narayanan, Beihai Ma, Shanshan Liu, Rachel E. Koritala, Uthamalingam Balachandran, and Donglu Shi <i>Materials Chemistry and Physics</i> , 140, 2–3, (2013), p. 427–430
28.	Lead Lanthanum Zirconate Titanate Ceramic Thin Films for Energy Storage Sheng Tong, Beihai Ma, Manoj Narayanan, Shanshan Liu, Rachel Koritala, Uthamalingam Balachandran, and Donglu Shi <i>ACS Appl. Mater. Interfaces</i> (2013), 5, 1474–1480
29.	Highly Ordered Monolayer/Bilayer TiO ₂ Hollow Sphere Films with Widely Tunable Visible-light Reflection and Absorption Band Jie Li, Yao Qin, Chao Jin, Ying Li, Donglu Shi, Lihua Gan, and Jinhu Yang <i>Nanoscale</i> , (2013), DOI:10.1039/C3NR00778B.
30.	Double-side ZnO nanorod arrays on single-crystal Ag holed microdisks with enhanced photocatalytic efficiency Yuanhui Zuo, Yao Qin, Chao Jin, Donglu Shi, Q. H. Wu and Jinhu Yang <i>Nanoscale</i> , (2013), 5, 4388–4394
31.	Dielectric behavior of lead lanthanum zirconate titanate thin films deposited on different electrodes/substrates Sheng Tong, Beihai Ma, Manoj Narayanan, Shanshan Liu, Uthamalingam Balachandran, Donglu Shi <i>Materials Letters</i> 106 (2013) 405–408
32.	Effective Reduction of Nonspecific Binding by Surface Engineering of Quantum Dots with Bovine Serum Albumin for Cell-Targeted Imaging Bingbo Zhang, X. H. Wang, Fengjun Liu, Yingsheng Cheng, and Donglu Shi <i>Langmuir</i> 2012, 28, 16605–16613
33.	Magnetocaloric effect in magnetothermally-responsive nanocarriers for hyperthermia-triggered drug release Jianbo Li, Yang Qu, Jie Ren, Weizhong Yuan, and Donglu Shi <i>Nanotechnology</i> 23 (2012) 505706 (10pp)
34.	Engineered Multifunctional Nanocarriers for Cancer Diagnosis and Therapeutics

	Donglu Shi, Hoon Song Cho, Nick Bedford <i>Small</i> , 7, 18 , 2549–2567, (2011)
35.	A Versatile Multicomponent Assembly via β -cyclodextrin Host–Guest Chemistry on Graphene for Biomedical Applications Dong, Yongyong Li, Jinhai Yu, Yanyan Song, Xiaojun Cai, Jiaqiang Liu, Jiaming Zhang, Rodney C. Ewing, and Donglu Shi <i>Small</i> (2012), DOI: 10.1002/sml.201201003
36.	Bioinspired synthesis of gadolinium-based hybrid nanoparticles as MRI blood pool contrast agents with high relaxivity Bingbo Zhang, H. T. Jin, Yan Li, Bingdi Chen, Shiyuan Liu and Donglu Shi <i>J. Mater. Chem.</i> , (2012), 22, 14494–14501
37.	Engineered Redox-Responsive PEG Detachable Mechanism in PEGylated Nano-graphene Oxide for Intracellular Drug Delivery H. Y. Wen with Donglu Shi <i>Small</i> , 8, 5, 760-769 (2012)
38.	Effective Gene Delivery Using Stimulus-Responsive Catiomer Designed with Redox-Sensitive Disulfide and Acid-Labile Imine Linkers Xiaojun Cai, Chunyan Dong, Haiqing Dong, Gangmin Wang, Giovanni M. Pauletti, X. J. Pan, Huiyun Wen, Isaac Mehl, Yongyong Li, and Donglu Shi <i>Biomacromolecules</i> (2012), 13, 1024–1034
39.	Engineered Redox-Responsive PEG Detachable Mechanism in PEGylated Nano-graphene Oxide for Intracellular Drug Delivery Huiyun Wen, Haiqing Dong, Aijun Shen, Wenjuan Xia, Xuequan Li, Jinhai Yu, Xiaojun Cai, Yongyong Li, and Donglu Shi <i>Small</i> , 7, 18 , p. 2549–2567, (2011)
40.	Improving colloidal properties of quantum dots with combined silica and polymer coatings for in vitro immuofluorescence assay Bingbo Zhang, Da Xing, Chao Lin, Fangfang Guo, Peng Zhao, Xuejun Wen, Zhihao Bao, Donglu Shi <i>J Nanopart Res</i> (2011) 13:2407–2415
41.	Preparation of highly fluorescent magnetic nanoparticles for analytes-enrichment and subsequent biodetection Bingbo Zhang, Bingdi Chen, Yilong Wang, F. F. Guo, Z. Li, Donglu Shi <i>Journal of Colloid and Interface Science</i> 353 (2011) 426–432
42.	Magnetic alignment of Ni/Co-coated carbon nanotubes in polystyrene composites Donglu Shi, Peng He, Peng Zhao, Fang Fang Guo, Feng Wang, Chris Huth, Xavier Chaud, Sergey L. Bud'ko, Jie Lian <i>Composites Part B: Engineering</i> , 42, 6, p. 1532-1538, (2011)
43.	Preparation of highly fluorescent magnetic nanoparticles for analytes-enrichment and subsequent biodetection Bingbo Zhang, Bingdi Chen, Yilong Wang, Fangfang Guo, Zhuoquan Li, Donglu Shi <i>Journal of Colloid and Interface Science</i> 353 (2011) 426–43
44.	Improving colloidal properties of quantum dots with combined silica and polymer coatings for in vitro immuofluorescence assay Bingbo Zhang, Da Xing, Chao Lin, Fangfang Guo, Peng Zhao, Xuejun Wen, Zhihao Bao, Donglu Shi <i>J Nanopart Res</i> (2011) 13:2
45.	Engineered Multifunctional Nanocarriers for Cancer Diagnosis and Therapeutics Donglu Shi, Nicholas M. Bedford, and Hoon-Sung Cho

	<i>Small</i> , 7, 18, p. 2549–2567, (2011)
46.	Rapidly disassembling nanomicelles with disulfide-linked PEG shells for glutathione-mediated intracellular drug delivery Hui-Yun Wen, Hai-Qing Dong, Wen-juan Xie, Yong-Yong Li, Kang Wang, Giovanni M. Paulettic and Dong-Lu Shi <i>Chem. Commun.</i> , 47, 3 (2011)
47.	The potential of magnetic nanocluster and dual-functional protein-based strategy for noninvasive detection of HBV surface antibodies Hengyao Hu, Hao Yang, Ding Li, Kan Wang, Jing Ruan, Xueqing Zhang, Jun Chen, Chenchen Bao, Jiajia Ji, Donglu Shi, and D.X. Cui <i>Analyst</i> , (2010) 4 (9), 5398–5404
48.	Unique role of ionic liquid in microwave-assisted synthesis of monodisperse magnetite nanoparticles Hengyao Hu, Hao Yang, Peng Huang, Daxiang Cui, Yanqing Peng, Jingchang Zhang, Fengyuan Lu, Jie Liand and Donglu Shi <i>Chem. Commun.</i> , (2010), 1-3, 1
49.	A Molecular Mechanics Study on the Effect of Surface Modification on the Interfacial Properties in Carbon Nanotube/Polystyrene Nanocomposites Dong Qian, Peng He, Donglu Shi <i>Journal for Multiscale Computational Eng.</i> , (2010), 8(2)
50.	Fluorescent, Superparamagnetic Nanospheres for Drug Storage, Targeting, and Imaging: A Multifunctional Nanocarrier System for Cancer Diagnosis and Treatment Hoon-Sung Cho, Zhongyun Dong, Giovanni M. Pauletti, Jiaming Zhang, Hong Xu, Hongchen Gu, Lumin Wang, Rodney C. Ewing, Christopher Huth, Feng Wang, and Donglu Shi <i>ACS Nano</i> (2010) Vol. 4, NO. 9, p.5398
51.	Fluorescent Magnetic Nanoprobe for in vivo Targeted Imaging and Hyperthermia Therapy of Prostate Cancer Daxiang Cui, Yuedong Han, Zhiming Li, Hua Song, Kan Wang, Rong He, Bing Liu, Heliang Liu, C. C. Bao, Peng Huang, Jin Ruan, Feng Gao, Hao Yang, Hoon Sung Cho, Qiushi Ren, Donglu Shi <i>Nano Biomedicine And Engineering</i> (2009), 1, 94-112
52.	Surface charge induced Stark effect on luminescence of quantum dots conjugated on functionalized carbon nanotubes W. Wang, G.K. Liu, H.S. Cho, Y. Guo, Donglu Shi, J. Lian, R.C. Ewing <i>Chemical Physics Letters</i> (2009), 469, 149–152
53.	Small angle light scattering study of improved dispersion of carbon nanofibers in water by plasma treatment Jian Zhao, Donglu Shi, Jie Lian <i>Carbon</i> 47, (2009), 2329 –2336
54.	Anti-tumor activity of paclitaxel-loaded chitosan nanoparticles: An in vitro study Fang Li, Jianing Li, Xuejun Wen, Shenghu Zhou, Xiaowen Tong, Pingping Su, Hong Li, Donglu Shi <i>Mater. Sci & Eng C</i> , (2009)
55.	Integrated Multifunctional Nanosystems for Medical Diagnosis and Treatment Donglu Shi <i>Advanced Functional Materials</i> , (2009), 19, 3356–3373
56.	5f-6d orbital hybridization of trivalent uranium in crystals of hexagonal symmetry: Effects on electronic energy levels and transition intensities Wei Wang, Guokui Liu, M. G. Brik, L. Seijo, and Donglu Shi,

	<i>Phys Rev. B.</i> (2009), 80, 1
57.	Anti-tumor activity of paclitaxel-loaded chitosan nanoparticles: An in vitro study Fang Li, Jianing Li, Xuejun Wen, Shenghu Zhou, Xiaowen Tong, Pingping Su, Hong Li and Donglu Shi <i>Mater. Sci. Eng. C</i> (2009), doi:10.1016/j.msec.2009.07.001
58.	Improved dispersion of PEG-functionalized carbon nanofibers in toluene Jian Zhao, Guangzhe Piao, XinWang, Jie Lian, ZhaoboWang, Hongqi Hu, Li Chen, XuyunWang, Yong Tao, Donglu Shi <i>Mater. Sci. Eng. C</i> 29 (2009), 742-745
59.	Small angle light scattering study of improved dispersion of carbon nanofibers in water by plasma treatment Jian Zhao, Donglu Shi, Jie Lian <i>Carbon</i> 47 (2009) 2329-2336
60.	Fluorescent Polystyrene-Fe ₃ O ₄ Composite Nanospheres for In Vivo Imaging and Hyperthermia Donglu Shi, Hoon Sung Cho, Yan Chen, Hong Xu, Hongchen Gu, Jie Lian, Wei Wang, Guokui Liu, Christopher Huth, Lumin Wang, Rodney, C. Ewing, Sergei Budko, Giovanni M. Pauletti, and Zhongyun Dong <i>Advanced Materials</i> 2009, 21, 1-4
61.	Asymmetric Composite Nanoparticles with Anisotropic Surface Functionalities YilongWang, Hong Xu, Weili Qiang, Hongchen Gu, and Donglu Shi <i>Journal of Nanomaterials</i> V. 2009, Article ID 620269, 5 pp
62.	Nanoscale Solute Partitioning in Bulk Metallic Glasses Ling Yang, Michael K. Miller, Xun-Li Wang, Chain T. Liu, Alexandru, D. Stoica, Dong Ma, Jonathan Almer, and Donglu Shi <i>Advanced Materials</i> 2008, 20, 1-4
63.	Size-independent residual magnetic moments of colloidal Fe ₃ O ₄ -polystyrene nanospheres detected by ac susceptibility measurements Du-Xing Chen, Alvaro Sanchez, Hong Xu, Hongchen Gu, and Donglu Shi <i>J of Appl. Phys.</i> 104, 093902 (2008)
64.	Quantum dot conjugated hydroxylapatite nanoparticles for in vivo imaging Yan Guo, Donglu Shi, Jie Lian, Zhongyun Dong, Wei Wang, Hoonsung Cho, Guokui Liu, LuminWang and Rodney C Ewing <i>Nanotechnology</i> 19 (2008) 175102 (6pp)
65.	Low-Temperature Preparation of Amorphous-Shell/Nanocrystalline-Core Nanostructured TiO ₂ Electrodes for Flexible Dye-Sensitized Solar Cells Dongshe Zhang, Hengyao Hu, Laifeng Li, and Donglu Shi <i>Journal of Nanomaterials</i> Volume 2008, 271631
66.	Enhanced Thermal Stability of Carbon Nanotubes via Surface Plasma Polymerization in Al ₂ O ₃ Composites H. Cho, D. Shi, Yan Guo, Jie Lian, Z. Ren, Bed Poudel, Y. Song, J. L. Abot, Dileep Singh, Jules Routbort, Lumin Wang, and Rodney C. Ewing <i>Journal of Applied Physics</i> , 104, 074302-1 (2008)
67.	Synthesis of Asymmetric Inorganic/Polymer Nanocomposite Particles via Localized Substrate Surface Modification and Miniemulsion Polymerization Weili Qiang, Yilong Wang, Ping He, Hong Xu, Hongchen Gu, and D. Shi <i>Langmuir</i> , 24, 606-608 (2008)

68.	STEM characterization on silica nanowires with new mesopore structures by space-confined self-assembly within nano-scale channels Peng Lai, Michael Z. Hu, Donglu Shi and Douglas Blom <i>Chem. Commun.</i> , 1-3, (2008)
69.	In vivo Imaging by Luminescent Carbon Nanotubes with Surface Conjugated Quantum Dots Donglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing <i>Advanced Functional Materials</i> , 18, 1-9 (2008)
70.	Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al ₂ O ₃ nanocomposites Yan Guo, Hoonsung Cho, Donglu Shi, Jie Lian, Yi Song, Jandro Abot, Bed Poudel, Zhifeng Ren, Lumin Wang and Rodney C. Ewing <i>Appl. Phys Lett.</i> 91, 261903 (2007)
71.	Neutron diffraction study of the structure and low-temperature phase transformation in ternary NiAl + M (M = Ni, Fe,Co) alloys L. Yang, X.-L. Wang, C.T. Liu, J.A. Fernandez-Baca, C.L. Fu, J.W. Richardson and D. Shi <i>Scripta Materialia</i> 56 (2007)
72.	Quantum-Dot-Activated Luminescent Carbon Nanotubes via a Nano Scale Surface Functionalization for in vivo Imaging Donglu Shi, Yan Guo, Zhongyun Dong, Jie Lian, Wei Wang, Guokui Liu, Lumin Wang, and Rodney C. Ewing <i>Advanced Materials</i> 2007, 19, 4033–4037
73.	In vivo Imaging by Luminescent Carbon Nanotubes Donglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing <i>Advanced Materials</i> , 19, 4033–4037, (2007)
74.	Coating nanothickness degradable films on nanocrystalline hydroxyapatite particles to improve the bonding strength between nanohydroxyapatite and degradable polymer matrix Heather L. Nichols, Ning Zhang, Jing Zhang, Donglu Shi, Sarit Bhaduri, Xuejun Wen <i>Journal of Biomedical Materials Research Part A</i> , Volume 82A, Issue 2, Pages 373 – 382 (2007)
75.	Sintering of High Density Carbon Nanotube/Alumina Composites via Surface Plasma Polymerization Yan Guo, D. Shi, J. Lian, Hoon Sung Cho, Lumin Wang, and Rod Ewing <i>Appl Phys Lett</i> , 91, 261903-1, (2007)
76.	High-Pressure Preparation and Thermoelectric Properties of Bi _{0.85} Sb _{0.15} H.J. Liu, L.F. LI, and Donglu Shi <i>Journal of Electronic Materials</i> , Vol. 35, No. 7, 2006
77.	Carbon Nanofiber Hybrid Actuators: Part II – Solid Electrolyte-based Based Y. Y. Heung, A. Miskin, P. Kang, S. Jain, S. Arasimhadevara, D. Hurd, V. Shinde, M. J. Schulz, V. Shanov, P. He, F. J. Boerio, Donglu Shi, and S. Srivas <i>J. of Intelligent Materials Systems and structures</i> , Vol. 17 (2006) 191-197
78.	A carbon nanotube strain sensor for structural health monitoring Inpil Kang, Mark J Schulz, JayHKim, Vesselin Shanov and Donglu Shi

	<i>Smart Mater. Struct.</i> 15 (2006) 737–748
79.	Synthesis and characterization of superparamagnetic composite nanorings Longlan Cui, Hongchen Gu, Hong Xu, Donglu Shi <i>Materials Letters</i> 60 (2006) 2929–2932
80.	Processing Dependence of Texture, and Critical Properties of YBa ₂ Cu ₃ O _{7-δ} Films on RABiTS Substrates by a Non-Fluorine MOD Method Y. Xu, w, z A. Goyal, K.J. Leonard, and E.D. Specht, D. Shi, M. Paranthaman <i>J. Am. Ceram. Soc.</i> , 89 [3] 914–920 (2006)
81.	In situ high temperature optical microscopy study of phase evolution in YBa ₂ Cu ₃ O _{7d} films prepared by a fluorine-free sol–gel route Yulong Zhang, Xin Yao, Jie Lian, Lumin Wang, Aihua Li, H.K. Liu, Haibo Yao, Zhenghe Han, Laifeng Li, Yongli Xu, Donglu Shi <i>Physica C</i> 436 (2006) 62–67
82.	Luminescent Hydroxylapatite Nanoparticles by Surface Functionalization W. Wang, D. Shi, J. Lian, Yan Guo, Lumin Wang, and Rod Ewing <i>Appl Phys Lett</i> , 89, 183306 (2006)
83.	High-Pressure Preparation and Thermoelectric Properties of Bi _{0.85} Sb _{0.15} H. Liu, L. Li, and D. Shi <i>J. of Electronic Materials</i> , 35 L7 (2006).
84.	Introduction to Carbon nanotube and nanofiber smart materials Inpil Kang, Y. Heung, J. Kim, J. Lee, R. Gollapudi, S. Subramaniam, S. Narasimhadevara, D. Hurd, G. Kirker, V. Shanov, M. Schulz, D. Shi, J. Boerio, S. Mall, and M. Ruggles-Wren <i>Composites, Part B</i> , 37, 382-394 (2006).
85.	Improved Mechanical Properties of Carbon Nanotube-Polycarbonate Composites by Plasma Surface Modification Yong Gao, Peng He, Donglu Shi, Jie Lian, Lumin Wang, Dong Qian, Jian Zhao, Wei Wang, Mark J. Schulz <i>Journal of Macromolecular Science, Part B: Physic</i> , 45:671679
86.	Surface Modification of the MWNT and the dependence of the Mechanical Properties of MWNTs-Polycarbonate Composites on Ultrasonication Time Y. Gao, Peng He, Jie Liang, Mark J. Schulz, J. Zhao, Wei Wang, Donglu Shi <i>Compositie A</i> , 37 1270-1275
87.	Modulus study of microcracks in single domain in YBa ₂ Cu ₃ O _x with c-axis pressure during oxygen anneal D. Shi, D. Isfort, X. Chaud, P. Odie, A. Sulpice, R. Tournier, Y. Guo, P. He, L. Guo, L. Li, and R. Sing <i>Physica C</i> , 443, 18-22 (2006)
88.	In-situ High Temperature Optical Microscopy Study of Phase Evolution in YBa ₂ Cu ₃ O _{7-d} Films Prepared by a Fluorine -free Sol-gel Route Y. Zhang, X. Yao, and D. Shi <i>Physica C</i> , 436, 62-67 (2006)
89.	Deposition of ultrathin Eu-doped Y ₂ O ₃ on alumina nanoparticles Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Donglu Shi <i>Nanotechnology</i> , 17, 1351-1354 (2006)
90.	Luminescent Carbon Nanotubes Donglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing <i>Advanced Materials</i> , 18, 189-193 (2006)
91.	Effects of surface modification, carbon nanofiber concentration, and dispersion time on

	the mechanical properties of carbon-nanofiber-polycarbonate composites Yong Gao, Peng He, Jie Lian, Lumin Wang, Wang Dong Qian, Jian Zhao, Wei Wang, Mark J. Schulz, Xing Ping Zhou, Donglu Shi <i>Journal of Applied Polymer Science</i>, 103, 6, 3792-3797 (2006).
92.	How Does Surface Modification Aid in the Dispersion of Carbon Nanofibers Jian Zhao, Dale W. Schaefer, Donglu Shi, Jie Lian, Janis Brown, Gregory Beaucage, Lumin Wang, and Rodney C. Ewing <i>J. Phys. Chem. B</i>, 109, 23351-23357 (2005)
93.	Functionalization of single-walled carbon nanotubes using isotropic plasma treatment: Resonant Raman spectroscopy study Zhandos N. Utegulos, David B. Mast, Peng He, Donglu Shi and Robert F. Gilland <i>J. of Appl. Phys.</i>, 97 (2005)
94.	Plasma deposition of thin carbonfluorine films on aligned carbon nanotube H. Peng, Donglu Shi, Jie Lian, L. M. Wang, and Rodney C. Ewing, Wim Van Ooij, W Li, Z. Ren <i>Appl. Phys. Lett.</i>, 86, 043107 (2005)
95.	Single-crystalline polytetrafluoroethylene-like nanotubes prepared from atmospheric plasma discharge J. Zhang, Y. Guo, J. Z. Xu, X. S. Fang, and H. K. Xie, Donglu Shi, P. He. Wim Van Ooij <i>Appl. Phys. Lett.</i>, 86, 131501, (2005)
96.	Coating of Silver Film onto the Inner Pore Surfaces of Reticulated Alumina Substrate by an Electroless Plating Method Donglu Shi and Fang Mei <i>Tsinghua Science and Technology</i>, 10, 277-281 (2005)
97.	Magnetic Alignment of Carbon Nanotubes and Mechanical Properties of CNT Composites Donglu Shi, P. He. Xavier Chaud, and Robert Tournier <i>J. of Appl. Phys.</i>, 97 (2005)
98.	The development of YBa₂Cu₃O_x thin films using a fluorine-free sol-gel approach for coated conductors Donglu Shi, Yongli Xu, Haibo Yao, Z. Han, Jie Lan, Lumin Wang, Aihua Li, H K Liu and S X Dou <i>Supercond. Sci. Technol.</i> 17 (2004) 1-6
99.	Applications of Nanotechnology in Tissue Engineering Xuejun Wen, Donglu Shi, Ning Zhang Invited review paper by John Wiley & Sons, Inc. (2004)
100.	Surface Resistance Measurements of Single Domain YBCO A. K. Mishra, N. Hari Babu, P. He, D. Isfort, X. Chaud, A. M. Ferendeci, D. A. Cardwell, R. Tournier, D. Mast, and D. Shi <i>Physica C</i>, 402, 277-282 (2004)
101.	Suppression of ab-Plane Crack Formation in Single Domain YBCO by uniaxial c-axis Pressure D. Shi, D. Isfort, X. Chaud, P. Odie, D. Mast, and R. Tournier <i>Physica C</i>, 402, 72-29, (2004).
102.	Preparation of YBCO Films on CeO₂-Buffered (001) YSZ Substrates by a Non-Fluorine MOD Method Yongli Xu, A. Goyal, N.A. Rutter, D. Shi, P. M. Martin, and D. M. Kroeger <i>J. of American Ceramic Society</i>, 87, 1669-1676 (2004)

103.	High Tc Superconductor Re-entrant Cavity Filter Structures Himanshu Pandit ¹ , N. Hari Babu, X. Chaud, Donglu Shi, D. A. Cardwell, P. He, D. Isfort, Robert Tournier, David Mast, and Altan M. Ferendeci <i>Physica C</i> 425, 44-51, (2004)
104.	Crystallization, phase transition and optical properties of the rare-earth-doped nanophosphors synthesized by chemical deposition X. Y. Chen, L. Yang, R. E. Cook, S. Skanthakumar, D. Shi, G. K. Liu <i>Nanotechnology</i> , 14, 670-674 (2003)
105.	Plasma Coating of Carbon Nanofibers for Enhanced Dispersion and Interfacial Bonding in Polymer Composites Donglu Shi, P. He, Jie Lian, Lumin Wang, D. Mast, Mark Schultz <i>Appl. Phys. Lett.</i> , 83, (2003)
106.	Fabrication of high-critical current density YBa ₂ Cu ₃ O _{7-δ} films using a fluorine-free sol gel approach Y. Xu, A. Goyal, N.A. Rutter, D. Shi, M. Paranthaman, S. Sathiyamurthy, P.M. Martin, and D.M. Kroeger <i>J. Mater. Res.</i> , Vol. 18, No. 3, Mar 2003
107.	A Review of Coated Conductor Development Y. L. Xu and D. Shi <i>Tsinghua Science and Technology</i> , 8, 342-369 (2003)
108.	Structural Characterization of Epitaxial YBCO Thin Films Prepared by a Fluorine-Free Solution Synthesis Jie Lian, H. Yao, Donglu Shi, Y. Xu, Lumin Wang, Z. Han <i>Supercon Sci & Tech.</i> 16, 838 (2003)
109.	Fabrication of High Jc YBa ₂ Cu ₃ O _{7-d} Films Using A Fluorine-Free Sol Gel Approach Yongli Xu, A. Goyal, N.A. Rutter, D. Shi, M. Paranthaman, S.Sathiyamurthy, P.M. Martin, and D. M. Kroeger <i>J of Mat Res.</i> 18, 677-681 (2003)
110.	Interfacial particle bonding via an ultrathin polymer film on Al ₂ O ₃ nanoparticles by plasma polymerization Donglu Shi, Peng He, S.X. Wang, Wim J. van Ooij, L.M. Wang, Jiangang Zhao and Zhou Yu <i>J. Mater. Res.</i> , Vol. 17, No. 5, May 2002
111.	Plasma deposition of Ultrathin polymer films on carbon nanotubes Donglu Shi, Jie Lian, Peng He, L. M. Wang, Wim J. van Ooij, Mark Schulz, Yijun Liu, David B. Mast <i>Appl. Phys. Lett.</i> , Vol. 81, No. 27, 30 December 2002
112.	Fluorine-Free Sol Gel Deposition of Epitaxial YBCO Thin Films for Coated Conductors Bing Zhao, Haibo Yao, Kai Shi, Zhenghe Han, Y. Xu, and D. Shi <i>Physica C</i> (2002)
113.	Kinetics Study of ab-Plane Crack Propagation by a Modulus Measurement in Single-Domain YBa ₂ Cu ₃ O _x Donglu Shi, Philippe Odier ¹ , Andre Sulpice ¹ , D. Isfort ¹ , X. Chaud ¹ , R. Tournier ¹ , P. He, and R. Singh <i>Physica C</i> 384, 149-158 (2002)
114.	Interface Structure of YBCO Thin Films Prepared by a Non-Fluorine Sol Gel Route on a Single Crystal Substrate, Donglu Shi, Yongli Xu, J. Lian, Lumin Wang and S. McClellan <i>Supercon Sci&Tech.</i> 15 660-664 (2002)
115.	Deposition of Polymer Thin Films on ZnO Nanoparticles by a Plasma Treatment

	Peng He, Jie Lian, M. Wang, Wim J. van Ooij, and Donglu Shi <i>Mat. Res.Soc. Symp.</i> Vol. 703 (2002)
116.	Plasma Deposition and Characterization of Acrylic Acid Thin Film on ZnO Nanoparticles Donglu Shi, Peng He, Jie Lian, L. M. Wang, Wim J. van OoijJ. of <i>Mat Res.</i> 17, 2555-2560, 2002
117.	Interfacial Bonding via an Ultrathin Polymer Film on Al ₂ O ₃ Nanoparticles For Low-Temperature Consolidation of Ceramics D. Shi, S. X. Wang, Wim J. van Ooij, L. M. Wang, J. Zhao, and Zhou Yu <i>J. of Mat Res.</i> 17, 981-990, 2002
118.	Deposition of Extremely Thin Polymer Films on Carbon Nanotube Surfaces by a Plasma Treatment Donglu Shi and W. J. van Ooij <i>Appl. Phys. Lett.</i> , 81, (2002)
119.	Deposition and Interface Structures of YBCO Thin Films via a Non-Fluorine Sol Gel Route Donglu Shi, Yongli Xu, S. X. Wang, J. Lian, L. M. Wang, S. M. McClellan, R Buchanan, and K. C. Goretta <i>Physica C</i> 371 97-103 (2001)
120.	Multi-Layer Coating of Ultrathin Polymer Films on Nanoparticles of Alumina by a Plasma Treatment Donglu Shi, S. X. Wang, Wim J. van Ooij, L. M. Wang, Jiangang Zhao, and Zhou Yu <i>Mat. Res.Soc. Symp.</i> Vol. 635 (2001)
121.	Uniform Deposition of Ultrathin Polymer Films on the Surface of Alumin Nanoparticles by a Plasma Treatment Donglu Shi and W. J. van Ooij <i>Appl. Phys. Lett.</i> , 78, 1234 (2001)
122.	In vitro Bahavior of Hydroxylapatite Prepared by a Thermal Deposition Method Donglu Shi, Gengwei Jiang, and Xuejun Wen “Processing and Fabrication of Advanced Materials VIII,” eds K. Khor et al. (World Scientific, Singapore), p. 117, 2001.
123.	Sol Gel Synthesis of YBCO Film on Single Domain YBCO substrate for rf Development Donglu Shi and David Qu <i>Physica C</i> , 353, 258-264, 2001
124.	Interface Structural Evolution of and YBCO from a Randomly Oriented Silver Alloy Substrate Donglu Shi, S. X. Wang, X. Wen, D. Qu, Lumin Wang, Y. Xu, S. M. McClellan, B. A. Tent <i>Physica C</i> 353, 258-264 2001
125.	Crystal Growth of Single-Domain YBCO Superconductors for Wireless Telecommunications Donglu Shi Invited article in the 2001 YEARBOOK OF SCIENCE & TECHNOLOGY by McGraw-Hill
126.	Structural Effects on Bioactivity of Hydroxyapatite Donglu Shi, Gengwei Jiang, and Jennifer Bauer <i>Appl. Biomaterials</i> , 2000
127.	Scalling Behavior of RF Surface Resistance in Oxygen Deficient Single Domain YBCO

	D. Qu, Brian Tent, D. Shi, A. M. Ferendeci, and D. Mast, H. A. Blackstead, and I Maartense <i>Superton. Sci Technol</i> , 13, 902, 2000
128.	Surface Resistance of Single Domain YBCO D. Qu, D. Shi, H. A. Blackstead, A. M. Ferendeci, and D. Mast <i>Physica C</i> , 341, 2657 (2000)
129.	Direct deposition of c-axis textured YBCO thick film on unoriented metallic substrate for the development of long superconducting tapes X. J. Wen, D. Qu, B. A. Tent, Donglu Shi, M. Tomsic, L. Cowey, M. White, <i>IEEE Transactions on Applied Superconductivity</i> 07/1999; DOI: 10.1109/77.784679
130.	Development of C-Axis Textured YBCO on Unoriented Metallic Substrate Xuejun Wen, David Qu, and Donglu Shi <i>Cryogenics</i> , 1999, in press
131.	In vitro Bioactive Behavior of Hydroxylapatite-Coated Porous Alumina Donglu Shi, Gengwei Jiang, and Xuejun wen <i>Applied Biomaterials</i> , 53, 1999
132.	A Scaling Behavior of Surface resistance in the Oxygen-deficient Single Domain YBCO D. Qu, Brian Tent, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast <i>Superconducting Sci & Tech</i> (2000),13 902 doi:10.1088/0953-2048/13/6/356
133.	Effect of Oxygen Anneal on rf properties in a Single Domain YBCO Cavity Resonator for Microwave Applications D. Qu, Brian Tent, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast <i>IEEE-Superconductivity</i> 9: (2) 892-895, Part 1 JUN 1999
134.	Net-Shape Processing of Single Domain YBCO for a Novel High Q Millimeter Wave Resonator D. Qu, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast <i>Physica C</i> 315, 36-44 (1999)
135.	Angle Dependence of Levitation Force in a YBCO Sphere B. A. Tent, D. Qu, and Donglu Shi <i>Physica C</i> 309 p. 89-97, (1998)
136.	Direct Peritectic Growth of c-Axis Textured YBCO for Development of Long Conductors Donglu Shi, D. Qu, X. Wen, B. A. Tent, and M. Tomsic <i>J. of Superconductivity</i> , 11 (1998)
137.	Angle Dependence of Magnetization in a Single Domain YBCO Sphere B. A. Tent, D. Qu, Donglu Shi, W. J. Bresser, P. Boolchand, and Z. X. Cai <i>Phys. Rev. B</i> , 58 p. 11761 (1998)
138.	Growth Anisotropy in Seeded Melt Growth of YBa ₂ Cu ₃ O _x Donglu Shi, David Qu, and Brian Tent Invited article: <i>Materials Science and Eng. B</i> 53, 18-22 (1998)
139.	Effect of Oxygenation on the Levitation Force In Seeded Melt Grown YB ₂ Cu ₃ O _x Donglu Shi, David Qu, and Brian Tent <i>Physica C</i> 291, 181-187 (1997)
140.	Synthesis of Hydroxyapatite Films on Porous Alumina Substrate for Hard Tissue Prosthetics Donglu Shi and Genwei Jiang <i>Materials Science & Engineering C</i> 6, 175-182 (1998)

141.	Coating of Hydroxyapatite on Highly Porous Alumina Substrate through Thermal Decomposition Method Gengwei Jiang and Donglu Shi <i>J. of Biomaterials</i> 619, (1997)
142.	Coating of Hydroxyapatite onto Highly Porous Al ₂ O ₃ for Structural Bone Substitutes Gengwei Jiang and Donglu Shi <i>J. of Biomaterials</i> 564, (1997)
143.	Surface Nucleation, Domain Growth Mechanisms, and Factors Dominating Superconducting Properties in Seeded Melt Grown YB ₂ Cu ₃ O _x Donglu Shi, K. Lahiri, S. Sagar, D. Qu, V. Pan, V. F. Solovjov, and J. R. Hull. <i>J. of Materials Research</i> 12, 3036-3045
144.	Effect of Extremely Fine Y ₂ BaCuO ₅ Precipitates on the Critical Current Density of Melt-Processed YBa ₂ Cu ₃ O _x S. Sengupta, Donglu Shi, J. S. Luo, A. Buzdin, V. Gorin, V. R. Todt, C. Varanasi, and P. J. McGinn <i>J. Appl. Phys.</i> 81, 7396-7408, (1997)
145.	Domain Orientation Dependence of Levitation Force in Seede Melt Grown YB ₂ Cu ₃ O _x Donglu Shi, D. Qu, K. Lahiri, and S. Sagar <i>Appl. Phys. Lett.</i> 70, 3606 (1997)
146.	Seeded-Melt Texturing and Melt Joining of YBa ₂ Cu ₃ O _x Krishanu Lahiri, Sandhya Sagar, and Donglu Shi <i>Crystal Growth of Novel Electronic Materials</i> , 60, 115-126, (1996)
147.	Effect of Sample Geometry on Lefitation Force in Single-Domain YBCO Sandhya Sagar, Krishanu Lahiri, David Qu, and Donglu Shi <i>IEEE Magnetics</i> , 7, 1929 (1996)
148.	A New Method to Determine the Interface Coupling Strength in Seeded-Melt Textured YBa ₂ CuO _x Donglu Shi, Krishanu Lahiri, and Sandhya Sagar <i>Cryogenics</i> , 42, 567-572 (1995)
149.	Flux Pinning by Precipitates in YBa ₂ Cu ₃ O _x - A Cavity Model S. Sengupta, Donglu Shi, C. Varanasi, P. J. McGinn, V. Gorin, A. Busdin, and J. Luo <i>Cryogenics</i> , 42, 609-616 (1995).
150.	Formation of a Strongly Coupled YBa ₂ Cu ₃ O _x Domain by a Melt-Joining Method Donglu Shi <i>Appl. Phys. Lett.</i> , 66, 2573 (1995).
151.	Avalanche Flux Dynamics in the Vortex State of Type-II Superconductors Donglu Shi and Z. Wang <i>IEEE Trans. Appl. Supercond</i> , 5, 1721 (1995).
152.	Initial Crystallization and Growth in Melt Processing of Large-Domain YBa ₂ Cu ₃ O _x for Magnetic Levitation Donglu Shi, et al. <i>IEEE Trans. Appl. Supercond</i> , 5, 1627 (1995).
153.	Growth of Large-Domain YBa ₂ Cu ₃ with New Seeding Crystals of CaNdAlO ₄ and SrLaGaO ₄ Donglu Shi and Krishanu Lahiri, et al. <i>Physica C</i> , 246, 253 (1995)
154.	A New Method for Net-Shape Forming of Large, Single-Domain YBa ₂ Cu ₃ O _x Y. L. Chen, H. M. Chan, M. P. Harmer, V. R. Todt, S. Sengupta, and D. Shi <i>Physica C</i> , 234, 232 (1994)

155.	Processing of Large YBaCu3Ox-Domain for Levitation Applications by a NdBa2Cu3Ox-seeded Melt-Growth Technique V. R. Todt, S. Sengupta, Donglu Shi, J. R. Hull, P. R. Sahm, P. J. McGinn. R. Peoppel <i>J. Electronic Materials</i> , 23, 1127 (1994)
156.	Transport Resistive Broadening via Flux avalanches: SOC in a Driven System Z. Wang and Donglu Shi <i>Solid State Comm.</i> , 91, 741 (1994)
157.	Self-organized Criticality near the Bean Critical State: A Power Law Behavior of Flux Motion Z. Wang and Donglu Shi <i>Solid State Comm.</i> , 90, 405 (1994)
158.	Enhanced Flux Pinning through a Phase Formation-Decomposition-Recovery Process in Ag Sheathed Bi(Pb)SrCaCuO Wires S. X. Dou, H. K. Liu, Y. C. Guo, and Donglu Shi <i>IEEE Trans. Appl. Supercond.</i> 3, 1135-1137 (1993)
159.	Factors Dominating Transport Critical Current Behavior in High-Tc Superconductors Donglu Shi Invited article: <i>J. of Electronic Materials</i> , 22 1211, 1993
160.	Nonlinear U(j) Law from Magnetic Relaxation in Bi2Sr2CaCu2Oxi Single Crystals S. Sengupta, Donglu Shi, S. Sergeenkov, and P. J. McGinn <i>Phys. Rev. B (Rapid Comm.)</i> , 48, 6736 (1993)
161.	Thermally Activated Avalanche Flux Motion in a Single Crystal of Bi2Sr2CaCu2Ox Z. Wang and Donglu Shi <i>Phys. Rev. B</i> 48, 9782 (1993)
162.	Effect of Flux Avalanches on Activation Energy in Type II Superconductors: Evidence for Self-Organized Criticality Z. Wang and Donglu Shi <i>Phys. Rev. B</i> 48, 4208 (1993)
163.	Critical Current Density and Irreversibility Behavior in Ag-Sheathed Bi-Based Superconducting Wires Fabricated using a Controlled Melt Procedure S. X. Dou, H. K. Liu, Y. C. Guo, X. Jin, Q. Y. Hu, Donglu Shi, S. Salem-Sugui, Jr., and Z. Wang <i>Appl. Supercond.</i> 1, 1515-1522 (1993)
164.	Effects of Bi-Substitution for Tl in 1222-Type Cuprate TlSr2(Nd,Ce)2Cu2Oz Z. Chen, Z. Shen, Y. Tang, Y. Li, D. Pederson, K. Goretti, P. Kostic, and Donglu Shi <i>Physica C</i> 212, 206-210 (1993)
165.	Evolution of the Low-Energy Excitations and Dielectric of Ba1-xKxBiO3 Y. Y. Wang, H. Zhang, V. P. Dravid, Donglu Shi, D. G. Hinks, Y. Zheng, and J. Jorgensen <i>Phys. Rev. B</i> 47, 14503-14509 (1993)
166.	Penetration Field Studies on Textured YBCO from Low Field Ultrasonic Measurements Z. Li, M. Levy, B. Sarma, S. Salem-Sugui, Jr., Donglu Shi, and G. Crabtree <i>IEEE Trans. Appl. Supercond.</i> 3, 1406-1408 (1993)
167.	An Expression for the Time Dependence of Current Density with Avalanche Dynamics in Type II Superconductors Z. Wang and Donglu Shi <i>Phys. Rev. B</i> , 48 16176 (1993)
168.	An Alternative Method to Introduce Fine Y2BaCuO5 Precipitates into YBa2Cu3Ox

	with Enhanced Flux Pinning C. Varanasi, S. Sengupta, P. J. McGinn, and Donglu Shi <i>Appl. Supercond.</i> 2, 117-121, (1993)
169.	Flux Creep Activation Energy in High-Tc Superconductors S. Salem-Sugui, Jr. and Donglu Shi <i>Phys. Rev. B</i> 46, 6618-6621 (1992)
170.	Point Defects in Materials, Part II: Applications to Different Materials Problems D. N. Seidman and Donglu Shi <i>MRS Bulletin</i> XVI, 18 (1991)
171.	Point Defects in Materials, Part I: Behavior and Characteristics in Different Material Classes D. N. Seidman and Donglu Shi <i>MRS Bulletin</i> XVI, 28 (1991)
172.	Effective Flux-Creep Activation Energy and Anisotropy in a Bi ₂ Sr ₂ CaCu ₂ O _x Single Crystal M. E. Smith, Donglu Shi, S. Sengupta, and Z. Wang <i>Appl. Supercond.</i> 1, 151-158 (1993)
173.	Flux Pinning in Hot Isostatically Pressed Bi ₂ Sr ₂ CaCu ₂ O _x D. J. Miller, S. Sengupta, J. D. Hettinger, D. Shi, K. E. Gray, A. S. Nash, and K. C. Goretti <i>Appl. Phys. Lett.</i> 61, 2823-2825 (1992)
174.	Effective Activation Energy in the Bi-Sr-Ca-Cu-O System S. Sengupta, Donglu Shi, Z. Wang, M. Smith, and P. J. McGinn <i>IEEE Trans. Appl. Supercond.</i> 3, 1226-1228 (1993)
175.	Critical Current Density, Irreversibility Line, and Flux-Creep Activation Energy in Silver-Sheathed Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _x Donglu Shi, Z. Wang, S. Sengupta, M. E. Smith, L. F. Goodrich, S. X. Dou, H. K. Liu, and Y. C. Guo <i>IEEE Trans. Appl. Supercond.</i> 3, 1194-1196 (1993)
176.	Flux Pinning by 211 Precipitates in Melt-Textured YBa ₂ Cu ₃ O _x Donglu Shi, S. Sengupta, M. E. Smith, Z. Wang, A. C. Biondo, U. Balachandran, and K. C. Goretti <i>IEEE Trans. Appl. Supercond.</i> 3, 1034-1036 (1993)
177.	A TEM Study of Grain Boundaries in Zone-Melted YBa ₂ Cu ₃ O _x J. G. Chen, Donglu Shi, C. M. Wayman, P. J. McGinn, W. H. Chen, and N. Zhu <i>Mater. Lett.</i> 14, 177-182 (1992)
178.	Magnetic Relaxation and Intrinsic Pinning in a Single Crystal of Bi ₂ Sr ₂ CaCu ₃ O _x S. Sengupta, Donglu Shi, S. Salem-Sugui, Jr., Z. Wang, M. E. Smith, and P. J. McGinn <i>Phys. Rev. B</i> 47, 5414-5417 (1993)
179.	U-j Relationship in Type II Superconductors S. Sengupta, Donglu Shi, Z. Wang, M. E. Smith, and P. J. McGinn <i>Phys. Rev. B</i> 47, 5165-5170 (1993)
180.	Effect of Y ₂ BaCuO _x Precipitates on Flux Pinning in Melt-Processed YBa ₂ Cu ₃ O _x S. Sengupta, Donglu Shi, Z. Wang, A. C. Biondo, U. Balachandran, and K. C. Goretti <i>Physica C</i> 199, 43-48 (1992)
181.	Current Density Dependence of the Activation Energy in Type II Superconductors S. Sengupta, Donglu Shi, S. Salem-Sugui, Jr., Zuning Wang, J. I. Budnick, and K. DeMoranville

	<i>J. Appl. Phys.</i> 72, 592-596 (1992)
182.	Flux-Creep Activation Energy in High-T _c Superconductors S. Salem-Sugui, Jr. and Donglu Shi <i>Phys. Rev. B</i> 46, 6618-6622 (1992)
183.	High-T _c Superconductors: Fabricating Technologies and Future Perspectives K. C. Goretta, W. Wu, C. T. Wu, D. Xu, C. A. Youngdahl, Donglu Shi, J. P. Singh, J. Picciolo, M. T. Lanagan, J. R. Hull, J. T. Dusek, S. E. Dorris, N. Chen, A. C. Biondo, U. Balachandran, and R. B. Poeppel Invited article: <i>Mater. Chem. Phys.</i> 31, 73-78 (1992)
184.	Magnetic Relaxation in YBa ₂ Cu ₃ O _x Donglu Shi and S. Salem-Sugui, Jr. <i>Phys. Rev. B</i> , 44, 7647-7650 (1991)
185.	Increased Irreversibility line by Precipitates Pinning in the Bi-Sr-Ca-Cu-O System S. Salem-Sugui, Jr., Donglu Shi, and S. E. McFarland <i>Supercond. Sci. Technol.</i> 5, 73-78 (1992)
186.	Flux Creep and Pinning Energy Distribution in Zone-Melted YBa ₂ Cu ₃ O _x Donglu Shi, K. C. Goretta, J. G. Chen, and S. Salem-Sugui, Jr. <i>Appl. Phys. Lett.</i> 59, 225-227 (1991)
187.	Critical Current and Flux Pinning by Crystal Defects in Melt-Textured YBa ₂ Cu ₃ O _x Donglu Shi, K. C. Goretta, J. G. Chen, and A. C. Biondo, Invited article: 2nd Int. Ceramic Science & Technology Congress, Nov. 12-15, 1990, Orlando, FL, <i>Ceram. Trans.</i> 18, 373-382 (1991)
188.	Strontium-Induced Oxygen Defect Structure and Hole Doping in La ₂ -xSr _x Cu O ₄ Zhengquan Tan, M. E. Filipkowski, J. I. Budnick, E. K. Heller, D. L. Brews, B. L. Chamberland, C. E. Bouldin, J. C. Woicik, and Donglu Shi <i>Phys. Rev. Lett.</i> 64, 2715-2718 (1991)
189.	Critical Currents, Magnetic Relaxation, and Microstructure in Zone-Melted YBa ₂ Cu ₃ O _x Donglu Shi, J. G. Chen, M. Xu, P. J. McGinn, W. H. Chen, and K. C. Goretta <i>IEEE Trans. Magn.</i> 27, 1080-1082 (1991)
190.	Transport Critical Current Behavior and Grain Boundary Microstructure in YBa ₂ Cu ₃ O _x Donglu Shi, J. G. Chen, M. Xu, A. L. Cornelius, U. Balachandran, and K. C. Goretta <i>Supercond. Sci. Technol.</i> 3, 222-226 (1990)
191.	Nonlinear Logarithmic Time Decay of Magnetization and in a Single Crystal of Bi ₂ Sr ₂ CaCu ₂ O _x Donglu Shi and M. Xu <i>Phys. Rev. B</i> 44, 4548-4553 (1991)
192.	Calculations of Magnetic Relaxation in Type II Superconductors Based on Various Critical-State Models M. Xu and Donglu Shi <i>Physica C</i> 168, 303-308 (1990)
193.	Transport Critical Current Density and Microstructure in Extruded YBa ₂ Cu ₃ O _{7-x} Wires Processed by Zone Melting Donglu Shi, M. Xu, J. G. Chen, M. M. Fang, H. Krishnan, U. Welp, P. J. McGinn, W. H. Chen, M. T. Langan, K. C. Goretta, J. T. Dusek, J. J. Picciolo, J. M. Hong, D. Miller, and U. Balachandran <i>J. Appl. Phys.</i> 68, 228-232 (1990)
194.	YBa ₂ Cu ₃ O _x Toughened by ZrO ₂ Additions K. C. Goretta, O. D. Lacy, U. Balachandran, Donglu Shi, and J. L. Routbort

	<i>J. Mater. Sci. Lett.</i> 9, 380-381 (1990)
195.	Oxygen Stoichiometry and Flux Creep Activation Energy in YBa ₂ Cu ₃ O _{7-x} Donglu Shi and Mark S. Boley <i>Supercond. Sci. Technol.</i> 3, 285-288 (1990)
196.	Temperature and Field Dependence of Magnetic Relaxation in a Bi ₂ Sr ₂ CaCu ₂ O _x Single Crystal Donglu Shi, M. Xu , A. Umezawa, and R. F. Fox <i>Phys. Rev. B</i> 42, 2062-2065 (1990)
197.	Superconducting Transition Broadening and Flux Creep Activation Energy in Tl ₂ Ca ₂ Ba ₂ Cu ₃ O _x Donglu Shi and M. S. Boley <i>Supercond. Sci. Technol.</i> 3, 289-292 (1990)
198.	Irreversibility in BiK _{0.375} Ba _{0.625} O ₃ Donglu Shi, X. S. Ling, M. Xu, M. M. Fang, S. Luo , J. I. Budnick, B. Dabrowski, D. G. Hinks, D. R. Richards, and Y. Zheng <i>Phys. Rev. B</i> 43, 3684-3687 (1991)
199.	Crystal Defects and Critical Currents in YBa ₂ Cu ₃ O _x Donglu Shi, J. G. Chen, M. Xu , H. E. Kourous, Y. Fang, Y. H. Li, and M. S. Boley <i>Supercond. Sci. Technol.</i> 3, 457-463 (1990)
200.	Full Penetration Temperature and Magnetic Relaxation in a Single Crystal of Bi ₂ Sr ₂ CaCu ₂ O _x M. Xu, Donglu Shi, A. Umezawa, K. G. Vandervoort, and G. W. Crabtree <i>Phys. Rev. B</i> 43, 13049-13053 (1991)
201.	High Critical Current Density in Grain-Oriented Bulk YBa ₂ Cu ₃ O _x Processed by Partial-Melt Growth Donglu Shi, M. M. Fang, J. Akujieze, M. Xu, and J. G. Chen <i>Appl. Phys. Lett.</i> 57, 2606-2608 (1990)
202.	Thermally Activated Dissipation in a Long-Term Annealed Single Crystal of Bi ₂ Sr ₂ CaCu ₂ O _x Donglu Shi, H. E. Kourous, M. Xu, and D. H. Kim <i>Phys. Rev. B</i> 43, 514-518 (1991)
203.	Generalized Critical-State Model for Hard Superconductors M. Xu, Donglu Shi, and R. F. Fox <i>Phys. Rev. B</i> 42, 10773-10776 (1990)
204.	Effect of Microstructural Changes on Thermally Activated Flux-Creep Behavior in the Bi-Sr-Ca-Cu-O System Donglu Shi, Ming Xu, M. M. Fang, J. G. Chen, A. L. Cornelius, and S. G. Lanan <i>Phys. Rev. B</i> 41 8833-8837 (1990)
205.	Microstructure and Electrical Properties of Bulk High-T _c Superconductors U. Balachandran, M. J. McGuire, K. C. Goretta, C. A. Youngdahl, Donglu Shi, R. B. Poeppel, and S. Danyluk <i>Superconductivity and Appl.</i> , Plenum Press, NY, 1990, pp. 265
206.	Effect of Microstructural Changes on Thermally Activated Flux-Creep in the Bi-Sr-Ca-Cu-O System D. Shi, M. Xu, M. M. Fang, J. G. Chen , A. L. Cornelius, and S. G. Lanan <i>Phys. Rev. B</i> 41, 8833-8837 (1990)
207.	Transport Critical Currents and Grain Boundary Weak Links in High-T _c Superconductors

	Donglu Shi <i>Appl. Supercond.</i> 1, 61-70 (1993)
208.	Isothermal Shear Transformation in YBa ₂ Cu ₃ O _{7-δ} Donglu Shi <i>Physica C</i> 156, 359-362 (1988)
209.	Phase Transformations in YBa ₂ Cu ₃ O _{7-δ} Donglu Shi <i>Phys. Rev. B.</i> 39, 4299-4305 (1989)
210.	Transport Critical Current Density in Bi ₂ Sr ₂ CaCu ₂ O _x Single Crystals D. Shi, Ming Tang Y. C. Chang, P. Z. Jiang, K. Vandervoort, B. Malecki, and D. J. Lam <i>Appl. Phys. Lett.</i> 54, 2358-2360 (1989)
211.	Formation of the 110 K Superconducting Phase via the Amorphous State in the Bi-Sr-Ca-Cu-O System Donglu Shi, Ming Tang, K. Vandervoort, and H. Claus <i>Phys. Rev. B.</i> 39, 9091-9098 (1989)
212.	Crystallization of Metal Oxide Glasses in Bi-Sr-Ca-Cu-O Systems Donglu Shi, M. Tang, M. S. Boley, M. Hash, K. Vandervoort, and H. Claus <i>Phys. Rev. B.</i> 40, 2247-2253 (1989)
213.	Origin of Enhanced Growth of the 110 K Superconducting Phase by Pb Doping in the Bi-Sr-Ca-Cu-O System Donglu Shi, J. Akujieze, M. S. Boley, J. G. Chen, M. Xu, and C. U. Segre <i>Appl. Phys. Lett.</i> 55, 699-701 (1989)
214.	Flux Pinning by Precipitates in the Bi-Sr-Ca-Cu-O System Donglu Shi, M. S. Boley, U. Welp, and J. G. Chen <i>Phys. Rev. B</i> 40, 5255-5258 (1989)
215.	Lattice Defects and Flux Pinning in Crystallized Metal Oxide Glasses in the Bi-Sr-Ca-Cu-O System Donglu Shi, J. G. Chen, U. Welp, M. S. Boley, and A. Zangvil <i>Appl. Phys. Lett.</i> 55, 1354-1356 (1989)
216.	Effect of Oxygen Stoichiometry on Superconducting Transition Broadening in YBa ₂ Cu ₃ O _x Donglu Shi, M. Patel, M. S. Boley, R. K. Kalia, and P. Vashishta <i>J. Appl. Phys.</i> 66, 2074-2078 (1989)
217.	Effect of Heat Treatment Time and Temperature on the Properties of YBa ₂ Cu ₃ O _x I. Bloom, B. S. Tani, M. C. Hash, Donglu Shi, M. A. Patel, K. C. Goretta, N. Chen, and D. W. Capone <i>J. Mater. Res.</i> 4, 1093-1098 (1989)
218.	Synthesis and Sintering of Tl ₂ Ca ₂ Ba ₂ Cu ₃ O _x K. C. Goretta, Donglu Shi, B. S. Malecki, M. C. Hash, and I. Bloom <i>Supercond. Sci. Technol.</i> 2, 192-194 (1989)
219.	Temperature Dependence of Flux Pinning Behavior in YBa ₂ Cu ₃ O _x Donglu Shi, M. Xu, M. S. Boley, and U. Welp <i>Physica C</i> 160, 417-423 (1989)
220.	Highly Textured Thick Films by a Melt-Annealing Technique in the Bi-Sr-Ca-Cu-O M. Xu, A. L. Cornelius, Donglu Shi, J. G. Chen, B. Dabrowski, D. Miller <i>Appl. Phys. Lett.</i> 55, 2236-2238 (1989)
221.	Effect of Silver and Silver Oxide Additions on the Mechanical and Superconducting Properties of YBa ₂ Cu ₃ O _{7-δ} Superconductors J. P. Singh, H. J. Leu, R. B. Poeppel, E. Van Voorhees, G. T. Goudey, K. Winsley, and Donglu Shi <i>J. Appl. Phys.</i> 66, 3154 (1989)

222.	Anisotropy of Oxygen Tracer Diffusion in YBa ₂ Cu ₃ O _{7-δ} Single Crystals S. J. Rothman, J. L. Routbort, J.-Z. Liu, J. W. Downey, L. J. Thompson, Y. Fang, Donglu Shi, J. E. Baker, J. P. Rice, D. M. Ginsberg, P. D. Han, and D. A. Payne <i>Def. Diff. Forum</i> 75, 57-68 (1991)
223.	Oxygen Diffusion and Phase Transformation in YBa ₂ Cu ₃ O _{7-x} Donglu Shi, J. Krucpzak, Ming Tang, Nan Chen, and R. Bhadra <i>J. Appl. Phys.</i> 66, 4325-4328 (1989)
224.	Influence of Oxygen Concentration on Processing YBa ₂ Cu ₃ O _{7-x} N. Chen, Donglu Shi, and K. C. Goretta <i>J. Appl. Phys.</i> 66, 2485-2488 (1989)
225.	A Superconducting Coil Made of Filamentary Composites Donglu Shi, M. Xu, J. G. Chen, S. G. Lanan, D. Miller, and K. C. Goretta <i>Mater. Lett.</i> 9, 1-4 (1989)
226.	Flux Pinning and Twin Boundaries in YBa ₂ Ca ₃ O _{7-x} Donglu Shi, M. Boley, J. G. Chen, M. Tang, U. Welp, W. K. Kwok, B. Malecki <i>Supercond. Sci. Technol.</i> 2, 255-260 (1989)
227.	Synthesis of a Phase-Pure Orthorhombic YBa ₂ Cu ₃ O _x under Low Oxygen Pressure U. Balachandran, R. B. Poeppel, J. E. Emerson, S. A. Johnson, M. T. Lanagan, C. A. Youngdahl, Donglu Shi, K. C. Goretta, and N. G. Eror <i>Mater. Lett.</i> 8, 454-456 (1989)
228.	Swaged Superconducting Wires Donglu Shi and K. C. Goretta <i>Mater. Lett.</i> 7, 428-432 (1989)
229.	Synthesis of 85 K Bi-Sr-Ca-Cu-O Superconductor F. A. Karbarz, O. D. Lacy, K. C. Goretta, U. Balachandran, D. Shi, J. G. Chen, Ming Xu, and M. C. Hash <i>Mater. Res. Bull.</i> 25, 251-256 (1989)
230.	Kinetics of the Orthorhombic to Tetragonal Phase Transition in YBa ₂ Cu ₃ O _{7-δ} Donglu Shi and D. W. Capone II High Temperature Superconductors II, ed. D. W. Capone II et al. (MRS, Pittsburgh, PA, 1988) pp. 175
231.	Microstructural Analysis of Superconducting Ceramics Donglu Shi and R. H. Lee <i>Microscopy</i> 36, 191-203 (1988)
232.	120 K Superconductivity in the (Bi,Pb)-Sr-Ca-Cu-O System U. Balachandran, Donglu Shi, D. I. Dos Santos, S. W. Graham, M. A. Patel, B. S. Tani, K. Vandervoort, H. Claus, and R. B. Poeppel <i>Physica C</i> 156, 649-651 (1988)
233.	Sintering of YBa ₂ Cu ₃ O _{7-x} Compacts Donglu Shi, D. W. Capone II, G. T. Goudey, J. P. Singh, N. J. Zaluzec, and K. C. Goretta <i>Mater. Lett.</i> 6, 217-221 (1988)
234.	A Time-Temperature-Transformation Diagram for the Orthorhombic to Tetragonal Phase Transition in YBa ₂ Cu ₃ O _{7-δ} Donglu Shi, D. W. Capone II, K. C. Goretta, K. Zhang, and G. T. Goudey <i>J. Appl. Phys.</i> 63, 5411-5414 (1988)
235.	60 K to 90 K Superconducting Phase Transition in YBa ₂ Cu ₃ O _{7-δ} Donglu Shi and D. W. Capone II <i>Appl. Phys. Lett.</i> 53, 159-161 (1988)

236.	Mechanical and Superconducting Properties of Sintered Composite YBa ₂ Cu ₃ O _{7-δ} Tape on Silver Substrate J. P. Singh, Donglu Shi, and D. W. Capone II <i>Appl. Phys. Lett.</i> 53, 237-239 (1988)
237.	Nucleation and Growth Kinetics of the Tetragonal to Orthorhombic Transition in YBa ₂ Cu ₃ O _{7-x} Donglu Shi, K. Zhang, and D. W. Capone II <i>J. Appl. Phys.</i> 64, 1995-1998 (1988)
238.	Synthesis, Structure, and Superconductivity in the Ba _{1-x} K _x BiO _{3-y} System, D. G. Hinks, B. Dabrowski, J. D. Jorgensen, A. W. Mitchell, D. R. Richards, Shiyu Pei, and Donglu Shi <i>Nature</i> 333, 836-838 (1988)
239.	110 K Superconductivity in Crystallized Bi-Sr-Ca-Cu-O Glasses Donglu Shi, Monica Blank, Mita Patel, David G. Hinks, A. W. Mitchell, K. Vandervoort, and H. Claus <i>Physica C</i> 156, 822-826 (1988)
240.	Preparation of Bi-Sr-Ca-Cu-O Superconductors from Oxide-Glass Precursors D. G. Hinks, L. Soderholm, D. W. Capone II, B. Dabrowski, A. W. Mitchell, and Donglu Shi <i>Appl. Phys. Lett.</i> 53, 423-425 (1988)
241.	Observations of Preferred Orientation in High-Tc Oxide Superconductor Tapes J. P. Singh, U. Balachandran, Donglu Shi, J. K. Degener, and R. B. Poeppel <i>Mater. Lett.</i> 7, 72-74 (1988)
242.	Upper Critical Fields of YBa ₂ Cu ₃ O _{7-δ} with 60 K and 90 K Superconductivity and the Weak Link Effect in the System Donglu Shi <i>Appl. Phys.</i> 64, 4624-4626 (1988)
243.	120 K Superconductivity in the (Bi,Pb)-Sr-Ca-Cu-O System U. Balachandran, Donglu Shi, D. I. Dos Santos, S. W. Graham, M. A. Patel, B. S. Tani, K. Vandervoort, H. Claus, and R. B. Poeppel <i>Physica C</i> 156, 649-651 (1988)
244.	Calcination of YBa ₂ Cu ₃ O _{7-x} Powder K. C. Goretta, Ira Bloom, N. Chen, G. T. Goudey, M. C. Hash, G. Klassen, M. T. Lanagan, R. B. Poeppel, J. P. Singh, Donglu Shi, U. Balachandran, J. T. Dusek, and D. W. Capone II <i>Mater. Lett.</i> 7, 161-164 (1988)
245.	Effect of Heating Rate on Properties of YBa ₂ Cu ₃ O _{7-x} N. Chen, K. C. Goretta, M. T. Lanagan, Donglu Shi, M. A. Patel, I. Bloom, M. C. Hash, B. S. Tani, and D. W. Capone II <i>Supercond. Sci. Technol.</i> 1, 177-179 (1988)
246.	Observations of Preferred Orientation in High Tc Oxide Superconductor Tapes J. P. Singh, U. Balachandran, Donglu Shi, J. K. Degener, and R. B. Poeppel <i>Mater. Lett.</i> 7, 72-75 (1988)
247.	Mechanical and Superconducting Properties of Sintered Composite YBa ₂ Cu ₃ O _{7-δ} Tape on Silver Substrate J. P. Singh, Donglu Shi, and D. W. Capone <i>Appl. Phys. Lett.</i> 53, 239-241 (1987)
248.	New Processing Technique for Forming Flexible A-15 Superconducting Tapes with Extremely High Critical Current Densities and Magnetic Fields M. T. Clapp and Donglu Shi

	<i>Appl. Phys. Lett.</i> 49, 1305-1307 (1986)
249.	A Flexible A-15 Superconducting Tape in the Nb ₃ (AlSiB) System M. T. Clapp and Donglu Shi <i>Adv. Cryog. Eng. Mater.</i> 32, 1067-1072 (1986)
250.	Flexible A-15 Superconducting Tapes via the Amorphous State M. T. Clapp and Donglu Shi <i>J. Appl. Phys.</i> 57, 4672-4678 (1985)