**REFEREED ARTICLES**

|  |  |
| --- | --- |
|  | Photo-fluorescent and magnetic properties of iron oxide nanoparticles for biomedical applicationsDonglu Shi, M. E. Sadat, Andrew W. Dunn, David B. Mast*Nanoscale*(2015) 7 8209-8232 |
|  | Magnetothermally responsive star-block copolymeric micelles for controlled drug delivery and enhanced thermo-chemotherapyLi Deng, Jie Ren, Jianbo Li, Junzhao Leng, Yang Qu, Chao Lin and Donglu Shi*Nanoscale*(2015), 00, 1–9 1 |
|  | Disulfide-Bridged Cleavable PEGylation in Polymeric Nanomedicine for Controlled Therapeutic DeliveryHaiqing Dong, Bin He, Yan Li, Min Tang, Yongyong Li , Donglu Shi*Nanomedicine*(2015) 10(1258 ): 1941- 58 |
|  | Nanospherical Surface-supported Seeded Growth of Au Nanowires: Investigation on A New Growth Mechanism and High-performance Hydrogen Peroxide SensorsYing Li, Lianhai Zu, Guanglei Liu, Yao Qin, Donglu Shi, Jinhu Yang*Particle & Particle Systems Characterization* (2015) 32 498-504 |
|  | Particle Systems for Stem Cell ApplicationsXiaowei Li, Xiaoyan Liu, Donglu Shi, Xuejun Wen*Journal of Biomedical Nanotechnology* (2015) 11 1107-1123 |
|  | Graphene-based nanovehicles for photodynamic medical therapy  Yan Li, Haiqing Dong, Yongyong Li, Donglu Shi*International Journal of Nanomedicine* (2015) 10 2451-2459 |
|  | An advanced electrocatalyst with exceptional eletrocatalytic activity via ultrafine Pt-based trimetallic nanoparticles on pristine grapheneJian Zhao, Hongqi Li, Zhensheng Liu, Wenbin Hu, Changzhi Zhao, Donglu Shi *Carbon* (2015) 87 116-127 |
|  | Detection of Mycobacterium tuberculosis based on H37Rv 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  *International Journal of Nanomedicine* (2015) 10 77-88 |
|  | Light-Concentrating Plasmonic Au Superstructures with Signiﬁcantly Visible-Light-Enhanced Catalytic PerformanceJinhu Yang, Ying Li, Lianhai Zu, Lianming Tong, Guanglei Liu, Yao Qin, Donglu Shi *ACS Applied Materials & Interfaces* (2015) *7* (15), 8200-8208 |
|  | 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*Colloids Surf Physicochem Eng Aspects* (2015) 477 84-89 |
|  | Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe3O4 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   *Applied Physics Letters*, 105, 091903 (2014) |
|  | 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 *ChemSusChem* (2014) 7 777-784 |
|  | 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 *J Colloid Interface Sci* (2014) 418 171-177 |
|  | Spinous TiO2 and Au@TiO2 octahedral nanocages: Amorphisity-to-crystallinity transition-driven surface structural construction and photocatalytic studyJie Li, Lianhai Zu, Ying Li, Chao Jin, Yao Qin, Donglu Shi, Jinhu Yang*J Colloid Interface Sci* (2014) 426 90-98 |
|  | Suppression of VEGF by Reversible-PEGylated Histidylated Polylysine in Cancer TherapyXiaojun Cai , Haiyan Zhu , Haiqing Dong , Yongyong Li, Jiansheng Su, Donglu Shi *Advanced Healthcare Materials* (2014) 3 1818-1827 |
|  | 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 *Nanoscale* (2014) 6 12408-12413 |
|  | Inhibition of glioma proliferation and migration by magnetic nanoparticle mediated JAM-2 silencingLifeng Qi, Jing Liu, Haiyan Zhu, Zhuoquan Li, Kun Lu, Tian Li, Donglu Shi*J Mater Chem B.The Royal Society of Chemistry* (2014) 2 7168-7175 |
|  | Effect of physiochemical property of Fe3O4 particle on magnetic lateral flow immunochromatographic assay Jun Yan, Yingying Liu, Yilong Wang, Xiaowei Xu, Ying Lu,Yingjie Pan, Fangfang Guo, Donglu Shi *Sensors Actuators B: Chem* (2014) 197 129-136 |
|  | Pluronic-encapsulated natural chlorophyll nanocomposites for in vivo cancer imaging and photothermal/photodynamic therapiesMaoquan Chu, Haikuo Li, Qiang Wu, Fangjie Wo, Donglu Shi*Biomaterials* 35 (2014) 8357e8373 |
|  | Surface engineered antifouling optomagnetic SPIONs for bimodal targeted imaging of pancreatic cancer cellsXiaohui Wang, Xiaohong Xing, Bingbo Zhang, Fengjun Liu, Yingsheng Cheng, Donglu Shi*International Journal of Nanomedicine* (2014) 9 1601–1615 |
|  | Nanostructured Mesoporous Silica Wires with Intrawire Lamellae via Evaporation-Induced Self-Assembly in Space-Confined ChannelsMichael Z. Hu, Donglu Shi, and Douglas A. Blom*Journal of Nanomaterials*, Volume (2014), Article ID 932160 |
|  | Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe3O4 nanoparticles for biomedical applicationsM.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*Materials Science and Engineering C* 42 (2014) 52–63 |
|  | Dipole-interaction mediated hyperthermia heating mechanismof nanostructured Fe3O4 compositesM.E. Sadat, Ronak Patel, Sergey L. Bud'ko, Rodney C. Ewing, Jiaming Zhang, Hong Xu, David B. Mast, Donglu Shi*Materials Letters* 129 (2014) 57–60 |
|  | Dual Surface-functionalized Janus Nanocomposites of Polystyrene/Fe3O4@SiO2 for Simultaneous Tumor Cell Targeting and Stimulus-induced Drug ReleaseFeng Wang, G. M. Pauletti, Juntao Wang, J. M. Zhang, R. C. Ewing, Y L Wang, Donglu Shi*Advanced Materials* (2013), DOI: 10.1002/adma.201301376 |
|  | JAM-2 siRNA intracellular delivery and real-time imaging by proton-sponge coated quantum dotsLifeng Qi,Weijun Shao and Donglu Shi*J. Mater. Chem. B*, (2013), 1, 654–660 |
|  | Near-infrared laser light mediated cancer therapy by photothermal effect of Fe3O4 magnetic nanoparticlesMaoquan Chu, Yuxiang Shao, Jinliang Peng, Xiangyun Dai, Haikuo Li, Qingsheng Wu, Donglu Shi*Biomaterials* 34 (2013) 4078e4088 |
|  | Effect of lanthanum content and substrate strain on structural and electrical properties of lead lanthanum zirconate titanate thin films FilmsSheng Tong, Manoj Narayanan, Beihai Ma, Shanshan Liu, Rachel E. Koritala, Uthamalingam Balachandran, and Donglu Shi [*Materials Chemistry and Physics*](http://www.sciencedirect.com/science/journal/02540584), [140, 2–3](http://www.sciencedirect.com/science/journal/02540584/140/2), (2013), p. 427–430 |
|  | Lead Lanthanum Zirconate Titanate Ceramic Thin Films for Energy StorageSheng Tong, Beihai Ma, Manoj Narayanan, Shanshan Liu, Rachel Koritala, Uthamalingam Balachandran, and Donglu Shi*ACS Appl. Mater. Interfaces* (2013), 5, 1474−1480 |
|  | Highly Ordered Monolayer/Bilayer TiO2 Hollow Sphere Films with Widely Tunable Visible-light Reflection and Absorption BandJie Li, Yao Qin, Chao Jin, Ying Li, Donglu Shi, Lihua Gan, and Jinhu Yang*Nanoscale*, (2013), DOI:10.1039/C3NR00778B. |
|  | Double-side ZnO nanorod arrays on single-crystal Ag holed microdisks with enhanced photocataltytic efficiencyYuanhui Zuo, Yao Qin, Chao Jin, Donglu Shi, Q. H. Wu and Jinhu Yang*Nanoscale*, (2013), 5, 4388-4394 |
|  | Dielectric behavior of lead lanthanum zirconate titanate thin films deposited on different electrodes/substratesSheng Tong, Beihai Ma, Manoj Narayanan, Shanshan Liu, Uthamalingam Balachandran, Donglu Shi*Materials Letters* 106 (2013) 405–408 |
|  | Effective Reduction of Nonspecific Binding by Surface Engineering of Quantum Dots with Bovine Serum Albumin for Cell-Targeted ImagingBingbo Zhang, X. H. Wang, Fengjun Liu, Yingsheng Cheng, and Donglu Shi*Langmuir* 2012, 28, 16605−16613 |
|  | Magnetocaloric effect in magnetothermally-responsive nanocarriers for hyperthermia-triggered drug releaseJianbo Li, Yang Qu, Jie Ren, Weizhong Yuan, and Donglu Shi*Nanotechnology* 23 (2012) 505706 (10pp) |
|  | Engineered Multifunctional Nanocarriers for Cancer Diagnosis and TherapeuticsDonglu Shi,Hoon Song Cho, Nick Bedford*Small*,7, 18, 2549–2567, (2011) |
|  | A Versatile Multicomponent Assembly via β -cyclodextrin Host–Guest Chemistry on Graphene for Biomedical ApplicationsDong, Yongyong Li , Jinhai Yu, Yanyan Song, Xiaojun Cai, Jiaqiang Liu, Jiaming Zhang, Rodney C. Ewing, and Donglu Shi*Small* (2012), DOI: 10.1002/smll.201201003 |
|  | Bioinspired synthesis of gadolinium-based hybrid nanoparticles as MRI blood pool contrast agents with high relaxivityBingbo Zhang, H.. T. Jin, Yan Li, Bingdi Chen, Shiyuan Liu and Donglu Shi*J. Mater. Chem.*, (2012), 22, 14494–14501 |
|  | Engineered Redox-Responsive PEG Detachable Mechanism in PEGylated Nano-graphene Oxide for Intracellular Drug DeliveryH. Y. Wen with Donglu Shi *Small*, 8, 5, 760-769 (2012) |
|  | Effective Gene Delivery Using Stimulus-Responsive Catiomer Designed with Redox-Sensitive Disulfide and Acid-Labile Imine LinkersXiaojun Cai, Chunyan Dong, Haiqing Dong, Gangmin Wang, Giovanni M. Pauletti, X. J. Pan, Huiyun Wen, Isaac Mehl, Yongyong Li, and Donglu Shi*Biomacromolecules* (2012), 13, 1024−1034 |
|  | Engineered Redox-Responsive PEG Detachable Mechanism in PEGylated Nano-graphene Oxide for Intracellular Drug DeliveryHuiyun Wen, Haiqing Dong, Aijun Shen, Wenjuan Xia, Xuequan Li, Jinhai Yu, Xiaojun Cai, Yongyong Li , and Donglu Shi*Small,* 7, 18, p. 2549–2567, (2011) |
|  | Improving colloidal properties of quantum dots with combined silica and polymer coatingsfor in vitro immuofluorenscence assayBingbo Zhang, Da Xing, Chao Lin, Fangfang Guo, Peng Zhao, Xuejun Wen, Zhihao Bao, Donglu Shi*J Nanopart Res* (2011) 13:2407–2415 |
|  | Preparation of highly fluorescent magnetic nanoparticles for analytes-enrichment and subsequent biodetectionBingbo Zhang, Bingdi Chen, Yilong Wang, F. F. Guo, Z. Li, Donglu Shi*Journal of Colloid and Interface Science* 353 (2011) 426–432 |
|  | Magnetic alignment of Ni/Co-coated carbon nanotubes in polystyrene compositesDonglu Shi, Peng He, Peng Zhao, Fang Fang Guo, Feng Wang, Chris Huth, Xavier Chaud,Sergey L. Bud’ko , Jie Lian*Composites Part B: Engineering*, 42, 6, p. 1532-1538, (2011) |
|  | Preparation of highly ﬂuorescent magnetic nanoparticles for analytes-enrichment and subsequent biodetectionBingbo Zhang, Bingdi Chen, Yilong Wang, Fangfang Guo, Zhuoquan Li, Donglu Shi*Journal of Colloid and Interface Science* 353 (2011) 426–43 |
|  | Improving colloidal properties of quantum dots with combined silica and polymer coatingsfor in vitro immuoﬂuorenscence assayBingbo Zhang, Da Xing, Chao Lin, Fangfang Guo, Peng Zhao, Xuejun Wen, Zhihao Bao, Donglu Shi*J Nanopart Res* (2011) 13:2 |
|  | Engineered Multifunctional Nanocarriers for Cancer Diagnosis and TherapeuticsDonglu Shi , Nicholas M. Bedford , and Hoon-Sung Cho*Small*, 7, 18, p. 2549–2567, (2011) |
|  | Rapidly disassembling nanomicelles with disulfide-linked PEG shells for glutathione-mediated intracellular drug deliveryHui-Yun Wen, Hai-Qing Dong, Wen-juan Xie, Yong-Yong Li,Kang Wang,Giovanni M. Paulettic and Dong-Lu Shi*Chem. Commun.*, 47, 3 (2011) |
|  | The potential of magnetic nanocluster and dual-functional protein-based strategy for noninvasive detection of HBV surface antibodiesHengyao Hu, Hao Yang, Ding Li, Kan Wang, Jing Ruan, Xueqing Zhang, Jun Chen, Chenchen Bao, Jiajia Ji, Donglu Shi, and D.X. Cui*Analyst*, (2010) *4* (9), 5398–5404 |
|  | Unique role of ionic liquid in microwave-assisted synthesis of monodisperse magnetite nanoparticlesHengyao Hu, Hao Yang, Peng Huang, Daxiang Cui, Yanqing Peng, Jingchang Zhang, Fengyuan Lu, Jie Liand and Donglu Shi*Chem. Commun*, (2010), 1-3, 1 |
|  | A Molecular Mechanics Study on the Effect of Surface Modification on the Interfacial Properties in Carbon Nanotube/Polystyrene NanocompositesDong Qian,Peng He, Donglu Shi *Journal for Multiscale Computational Eng.*, (2010), 8(2) |
|  | Fluorescent, Superparamagnetic Nanospheres for Drug Storage, Targeting, and Imaging: A Multifunctional Nanocarrier System for Cancer Diagnosis and TreatmentHoon-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*ACS Nano* (2010) Vol. 4, NO. 9, p.5398 |
|  | Fluorescent Magnetic Nanoprobes for in vivo Targeted Imaging and Hyperthermia Therapy of Prostate CancerDaxiang 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*Nano Biomedicine And Engineering* (2009), 1, 94-112 |
|  | Surface charge induced Stark effect on luminescence of quantum dots conjugated on functionalized carbon nanotubesW. Wang, G.K. Liu, H.S. Cho, Y. Guo, Donglu Shi, J. Lian, R.C. Ewing*Chemical Physics Letters* (2009), 469, 149–152 |
|  | Small angle light scattering study of improved dispersion of carbon nanofibers in water by plasma treatmentJian Zhao, Donglu Shi, Jie Lian*Carbon* 47, (2009), 2329 –2336 |
|  | Anti-tumor activity of paclitaxel-loaded chitosan nanoparticles: An in vitro studyFang Li, Jianing Li, Xuejun Wen, Shenghu Zhou, Xiaowen Tong, Pingping Su, Hong Li, Donglu Shi*Mater. Sci & Eng C*, (2009) |
|  | Integrated Multifunctional Nanosystems for Medical Diagnosis and TreatmentDonglu Shi*Advanced Functional Materials*, (2009), 19, 3356–3373 |
|  | 5f-6d orbital hybridization of trivalent uranium in crystals of hexagonal symmetry: Effects on electronic energy levels and transition intensitiesWei Wang, Guokui Liu, M. G. Brik, L. Seijo, and Donglu Shi,*Phys Rev. B.* (2009), 80, 1 |
|  | Anti-tumor activity of paclitaxel-loaded chitosan nanoparticles: An in vitro studyFang Li, Jianing Li, Xuejun Wen, Shenghu Zhou, Xiaowen Tong, Pingping Su, Hong Li and Donglu Shi*Mater. Sci. Eng. C* (2009), doi:10.1016/j.msec.2009.07.001 |
|  | Improved dispersion of PEG-functionalized carbon nanofibers in tolueneJian Zhao, Guangzhe Piao, XinWang, Jie Lian, ZhaoboWang, Hongqi Hu, Li Chen, XuyunWang, Yong Tao, Donglu Shi*Mater. Sci. Eng. C* 29 (2009), 742-745 |
|  | Small angle light scattering study of improved dispersion of carbon nanofibers in water by plasma treatmentJian Zhao, Donglu Shi, Jie Lian*Carbon* 47 (2009) 2329-2336 |
|  | Fluorescent Polystyrene–Fe3O4 Composite Nanospheres for In Vivo Imaging and HyperthermiaDonglu 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*Advanced Materials* 2009, 21, 1–4 |
|  | Asymmetric Composite Nanoparticles with Anisotropic Surface FunctionalitiesYilongWang, Hong Xu, Weili Qiang, Hongchen Gu, and Donglu Shi*Journal of Nanomaterials* V. 2009, Article ID 620269, 5 pp |
|  | Nanoscale Solute Partitioning in Bulk Metallic GlassesLing Yang, Michael K. Miller, Xun-Li Wang, Chain T. Liu, Alexandru, D. Stoica, Dong Ma, Jonathan Almer, and Donglu Shi*Advanced Materials* 2008, 20, 1–4 |
|  | Size-independent residual magnetic moments of colloidal Fe3O4-polystyrene nanospheres detected by ac susceptibility measurementsDu-Xing Chen, Alvaro Sanchez, Hong Xu, Hongchen Gu, and Donglu Shi*J of Appl. Phys.* 104, 093902 (2008) |
|  | Quantum dot conjugated hydroxylapatite nanoparticles for in vivo imagingYan Guo, Donglu Shi, Jie Lian, Zhongyun Dong, Wei Wang, Hoonsung Cho, Guokui Liu, LuminWang and Rodney C Ewing*Nanotechnology* 19 (2008) 175102 (6pp) |
|  | Low-Temperature Preparation of Amorphous-Shell/Nanocrystalline-Core Nanostructured TiO2 Electrodes for Flexible Dye-Sensitized Solar CellsDongshe Zhang, Hengyao Hu, Laifeng Li, and Donglu Shi*Journal of Nanomaterials* Volume 2008, 271631 |
|  | Enhanced Thermal Stability of Carbon Nanotubes via Surface Plasma Polymerization in Al2O3 CompositesH. 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*Journal of Applied Physics*, 104, 074302-1 (2008) |
|  | Synthesis of Asymmetric Inorganic/Polymer Nanocomposite Particles via Localized Substrate Surface Modification and Miniemulsion PolymerizationWeili Qiang, Yilong Wang, Ping He, Hong Xu, Hongchen Gu, and D. Shi*Langmuir*, 24, 606-608 (2008) |
|  | STEM characterization on silica nanowires with new mesopore structures by space-confined self-assembly within nano-scale channelsPeng Lai, Michael Z. Hu, Donglu Shi and Douglas Blom*Chem. Commun*., 1-3, (2008) |
|  | In vivo Imaging by Luminescent Carbon Nanotubes with Surface Conjugated Quantun DotsDonglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing*Advanced Functional Materials*, 18, 1-9 (2008) |
|  | Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al2O3 nanocompositesYan Guo, Hoonsung Cho, Donglu Shi, Jie Lian, Yi Song, Jandro Abot, Bed Poudel, Zhifeng Ren, Lumin Wang and Rodney C. Ewing*Appl. Phys Lett.* 91, 261903 (2007) |
|  | Neutron diffraction study of the structure and low-temperature phase transformation in ternary NiAl + M (M = Ni, Fe,Co) alloysL. Yang, X.-L. Wang, C.T. Liu, J.A. Fernandez-Baca, C.L. Fu, J.W. Richardsond and D. Shi*Scripta Materialia* 56 (2007) |
|  | Quantum-Dot-Activated Luminescent Carbon Nanotubes via a Nano Scale Surface Functionalization for in vivo ImagingDonglu Shi, Yan Guo, Zhongyun Dong, Jie Lian, Wei Wang, Guokui Liu, Lumin Wang, and Rodney C. Ewing*Advanced Materials* 2007, 19, 4033–403 |
|  | In vivo Imaging by Luminescent Carbon NanotubesDonglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing*Advanced Materials*, 19, 4033–4037, (2007) |
|  | Coating nanothickness degradable films on nanocrystalline hydroxyapatite particles to improve the bonding strength between nanohydroxyapatite and degradable polymer matrixHeather L. Nichols, Ning Zhang, Jing Zhang, Donglu Shi, Sarit Bhaduri, Xuejun Wen*Journal of Biomedical Materials Research Part A,* [**Volume 82A, Issue 2**](http://www3.interscience.wiley.com/cgi-bin/jissue/114279846) **, Pages 373 – 382 (2007)** |
|  | Sintering of High Density Carbon Nanotube/Alumina Composites via Surface Plasma PolymerizationYan Guo, D. Shi. J. Lian, Hoon Sung Cho, Lumin Wang, and Rod Ewing*Appl Phys Lett*, 91, 261903-1, (2007) |
|  | High-Pressure Preparation and Thermoelectric Properties of Bi0.85Sb0.15H.J. Liu, L.F. LI, and Donglu Shi*Journal of Electronic Materials*, Vol. 35, No. 7, 2006 |
|  | Carbon Nanofiber Hybrid Actuators: Part II – Solid Electrolyte-based BasedY. 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. Srivinas *J. of Intelligent Materials Systems and structures*, Vol. 17 (2006) 191-197 |
|  | A carbon nanotube strain sensor for structural health monitoringInpil Kang, Mark J Schulz, JayHKim, Vesselin Shanov and Donglu Shi*Smart Mater. Struct.* 15 (2006) 737–748 |
|  | Synthesis and characterization of superparamagnetic composite nanoringsLonglan Cui, Hongchen Gu, Hong Xu, Donglu Shi*Materials Letters* 60 (2006) 2929–2932 |
|  | Processing Dependence of Texture, and Critical Properties of YBa2Cu3O7-δ Films on RABiTS Substrates by a Non-Fluorine MOD MethodY. Xu,w,z A. Goyal, K.J. Leonard, and E.D. Specht, D. Shi, M. Paranthaman*J. Am. Ceram. Soc.*, 89 [3] 914–920 (2006) |
|  | In situ high temperature optical microscopy study of phase evolution in YBa2Cu3O7d films prepared by a fluorine-free sol–gel routeYulong Zhang, Xin Yao, Jie Lian, Lumin Wang, Aihua Li, H.K. Liu, Haibo Yao, Zhenghe Han, Laifeng Li, Yongli Xu, Donglu Shi*Physica C* 436 (2006) 62–67 |
|  | Luminescent Hydroxlapatite Nanoparticles by Surface FunctionalizationW. Wang, D. Shi, J. Lian, Yan Guo, Lumin Wang, and Rod Ewing *Appl Phys Lett*, 89, 183306 (2006) |
|  | High-Pressure Preparation and Thermoelectric Properties of Bi0.85Sb0.15H. Liu, L. Li, and D. Shi*J. of Electronic Materials*, 35 L7 (2006). |
|  | Introduction to Carbon nanotube and nanofiber smart materialsInpil Kang, Y. Heung, J. Kim, J. Lee, R. Gollapudi, S. Subramaniam, S. Narasimhadevara, D. Hurd, G. Kirkera, V. Shanov, M. Schulz, D. Shi, J. Boerio, S. Mall, and M. Ruggles-Wren*Composites, Part B*, 37, 382-394 (2006). |
|  | Improved Mechanical Properties of Carbon Nanotube-Polycarbonate Composites by Plasma Surface ModificationYong Gao, Peng He, Donglu Shi, Jie Lian, Lumin Wang, Dong Qian, Jian Zhao, Wei Wang, Mark J. Schulz*Journal of Macromolecular Science, Part B: Physic*, 45:671679 |
|  | Surface Modification of the MWNT and the dependence of the Mechanical Properties of MWNTs-Polycarbonate Composites on Ultrasonication TimeY. Gao, Peng He, Jie Liang, Mark J. Schulz, J. Zhao, Wei Wang, Donglu Shi*Compostie A* , 37 1270-1275 |
|  | Modulus study of microcracks in single domain in YBa2Cu3Ox with c-axis pressure during oxygen annealD. Shi, D. Isfort, X. Chaud, P. Odie, A. Sulpice, R. Tournier, Y. Guo, P. He, L. Guo, L. Li, and R. Sing*Physica C*, 443, 18-22 (2006) |
|  | In-situ High Temperature Optical Microscopy Study of Phase Evolution in YBa2Cu3O7-d Films Prepared by a Fluorine -free Sol-gel RouteY. Zhang, X. Yao, and D. Shi*Physica C*, 436, 62-67 (2006) |
|  | Deposition of ultrathin Eu-doped Y2O3 on alumina nanoparticlesJie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Donglu Shi*Nanotechnology*, 17, 1351-1354 (2006) |
|  | Luminescent Carbon NanotubesDonglu Shi, Jie Lian, H. Peng, Wei Wang, Zhongyun Dong, L. M. Wang, and Rodney C. Ewing*Advanced Materials*, 18, 189-193 (2006) |
|  | Effects of surface modification, carbon nanofiber concentration, and dispersion time on the mechanical properties of carbon-nanofiber-polycarbonate compositesYong Gao, Peng He, Jie Lian, Lumin Wang, Wang Dong Qian, Jian Zhao,Wei Wang, Mark J. Schulz, Xing Ping Zhou, Donglu Shi*Journal of Applied Polymer Science*, 103, 6**,** 3792-3797 (2006). |
|  | How Does Surface Modification Aid in the Dispersion of Carbon NanofibersJian Zhao, Dale W. Schaefer, Donglu Shi, Jie Lian, Janis Brown,Gregory Beaucage, Lumin Wang, and Rodney C. Ewing*J. Phys. Chem. B* , 109, 23351-23357 (2005) |
|  | Functionalization of single-walled carbon nanotubes using isotropic plasma treatment: Resonant Raman spectroscopy studyZhandos N. Utegulos, David B. Mast, Peng He, Donglu Shi and Robert F. Gilland*J. of Appl. Phys*., 97 (2005) |
|  | Plasma deposition of thin carbonfluorine films on aligned carbon nanotubeH. Peng, Donglu Shi, Jie Lian, L. M. Wang, and Rodney C. Ewing, Wim Van Ooij, W Li, Z. Ren*Appl. Phys. Lett.*, 86, 043107 (2005) |
|  | Single-crystalline polytetrafluoroethylene-like nanotubes prepared from atmospheric plasma dischargeJ. Zhang, Y. Guo, J. Z. Xu, X. S. Fang, and H. K. Xie, Donglu Shi, P. He. Wim Van Ooij*Appl. Phys. Lett*., 86, 131501, (2005) |
|  | Coating of Silver Film onto the Inner Pore Surfaces of Reticulated Alumina Substrate by an Electroless Plating MethodDonglu Shi and Fang Mei*Tsinghua Science and Technology*, 10, 277-281 (2005) |
|  | Magnetic Alignment of Carbon Nanotubes and Mechanical Properties of CNT CompositesDonglu Shi, P. He. Xavier Chaud, and Robert Tournier*J. of Appl. Phys*., 97 (2005) |
|  | The development of YBa2Cu3Ox thin films using a fluorine-free sol–gel approach for coated conductorsDonglu Shi, Yongli Xu, HaiboYao, Z. Han, Jie Lan, Lumin Wang, Aihua Li, H K Liu and S X Dou*Supercond. Sci. Technol*. 17 (2004) 1–6 |
|  | Applications of Nanotechnology in Tissue EngineeringXuejun Wen, Donglu Shi, Ning ZhangInvited review paper by John Wiley & Sons, Inc. (2004) |
|  | Surface Resistance Measurements of Single Domain YBCOA. K. Mishra, N. Hari Babu, P. He, D. Isfort, X. Chaud, A. M. Ferendeci, D. A. Cardwell, R. Tournier, D. Mast, and D. Shi*Physica C*, 402, 277-282 (2004) |
|  | Suppression of ab-Plane Crack Formation in Single Domain YBCO by uniaxial c-axis PressureD. Shi, D. Isfort, X. Chaud, P. Odie, D. Mast, and R. Tournier*Physica C*, 402, 72-29, (2004). |
|  | Preparation of YBCO Films on CeO2-Buffered (001) YSZ Substrates by a Non-Fluorine MOD MethodYongli Xu, A. Goyal, N.A. Rutter, D. Shi, P. M. Martin, and D. M. Kroeger*J. of American Ceramic Society*, 87, 1669–1676 (2004) |
|  | High Tc Superconductor Re-entrant Cavity Filter StructuresHimanshu Pandit1, N. Hari Babu, X. Chaud, Donglu Shi, D. A. Cardwell, P. He, D. Isfort, Robert Tournier, David Mast, and Altan M. Ferendeci*Physica C* 425, 44-51, (2004) |
|  | Crystallization, phase transition and optical properties of the rare-earth-doped nanophosphors synthesized by chemical depositionX. Y. Chen, L. Yang, R. E. Cook, S. Skanthakumar, D. Shi, G. K. Liu*Nanotechnology*, 14, 670-674 (2003) |
|  | Plasma Coating of Carbon Nanofibers for Enhanced Dispersion and Interfacial Bonding in Polymer CompositesDonglu Shi, P. He, Jie Lian, Lumin Wang, D. Mast, Mark Schultz*Appl. Phys. Lett*., 83, (2003) |
|  | Fabrication of high-critical current density YBa2Cu3O7-δ films using a fluorine-free sol gel approachY. Xu, A. Goyala, N.A. Rutter, D. Shi, M. Paranthaman, S. Sathyamurthy, P.M. Martin, and D.M. Kroeger*J. Mater. Res*., Vol. 18, No. 3, Mar 2003 |
|  | A Review of Coated Conductor DevelopmentY. L. Xu and D. Shi*Tsinghua Science and Technology*, 8, 342-369 (2003) |
|  | Structural Characterization of Epitaxial YBCO Thin Films Prepared by a Fluorine-Free Solution SynthesisJie Lian, H. Yao, Donglu Shi, Y. Xu, Lumin Wang, Z. Han*Supercon Sci & Tech*. 16, 838 (2003) |
|  | Fabrication of High Jc YBa2Cu3O7-d Films Using A Fluorine-Free Sol Gel ApproachYongli Xu, A. Goyal, N.A. Rutter, D. Shi, M. Paranthaman, S.Sathyamurthy, P.M. Martin, and D. M. Kroeger*J of Mat Res*. 18, 677-681 (2003) |
|  | Interfacial particle bonding via an ultrathin polymer film on Al2O3 nanoparticles by plasma polymerizationDonglu Shi, Peng He, S.X. Wang, Wim J. van Ooij, L.M. Wang, Jiangang Zhao and Zhou Yu*J. Mater. Res*., Vol. 17, No. 5, May 2002 |
|  | Plasma deposition of Ultrathin polymer films on carbon nanotubesDonglu Shi, Jie Lian, Peng He, L. M. Wang, Wim J. van Ooij, Mark Schulz, Yijun Liu, David B. Mast*Appl. Phys. Lett.*, Vol. 81, No. 27, 30 December 2002 |
|  | Fluorine-Free Sol Gel Deposition of Epitaxial YBCO Thin Films for Coated ConductorsBing Zhao, Haibo Yao, Kai Shi, Zhenghe Han, Y. Xu, and D. Shi*Physica C* (2002) |
|  | Kinetics Study of ab-Plane Crack Propagation by a Modulus Measurement in Single-Domain YBa2Cu3OxDonglu Shi, Philippe Odier1, Andre Sulpice1, D. Isfort1, X. Chaud1, R. Tournier1, P. He, and R. Singh*Physica C* 384, 149-158 (2002) |
|  | 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*Supercon Sci&Tech.* 15 660-664 (2002) |
|  | Deposition of Polymer Thin Films on ZnO Nanoparticles by a Plasma TreatmentPeng He, Jie Lian, M. Wang, Wim J. van Ooij, and Donglu Shi*Mat. Res.Soc. Symp*. Vol. 703 (2002) |
|  | Plasma Deposition and Characterization of Acrylic Acid Thin Film on ZnO NanoparticlesDonglu Shi, Peng He, Jie Lian, L. M. Wang, Wim J. van OoijJ. of *Mat Res.* 17, 2555-2560, 2002 |
|  | Interfacial Bonding via an Ultrathin Polymer Film on Al2O3 Nanoparticles For Low-Temperature Consolidation of CeramicsD. Shi, S. X. Wang, Wim J. van Ooij, L. M. Wang, J. Zhao, and Zhou Yu*J. of Mat Res.* 17, 981-990, 2002 |
|  | Deposition of Extremely Thin Polymer Films on Carbon Nanotube Surfaces by a Plasma TreatmentDonglu Shi and W. J. van Ooij*Appl. Phys. Lett*., 81, (2002) |
|  | Deposition and Interface Structures of YBCO Thin Films via a Non-Fluorine Sol Gel RouteDonglu Shi, Yongli Xu, S. X. Wang, J. Lian, L. M. Wang, S. M. McClellan, R Buchanan, and K. C. Goretta*Physica C* 371 97-103 (2001) |
|  | Multi-Layer Coating of Ultrathin Polymer Films on Nanoparticles of Alumina by a Plasma TreatmentDonglu Shi, S. X. Wang, Wim J. van Ooij, L. M. Wang, Jiangang Zhao, and Zhou Yu*Mat. Res.Soc. Symp*. Vol. 635 (2001) |
|  | Uniform Deposition of Ultrathin Polymer Films on the Surface of Alumin Nanoparticles by a Plasma TreatmentDonglu Shi and W. J. van Ooij*Appl. Phys. Lett*., 78, 1234 (2001) |
|  | In vitro Bahavior of Hydroxylapatite Prepared by a Thermal Deposition MethodDonglu Shi, Gengwei Jiang, and Xuejun Wen “Processing and Fabrication of Advanced Materials VIII,” eds K. Khor et al. (World Scientific, Singapore), p. 117, 2001. |
|  | Sol Gel Synthesis of YBCO Film on Single Domain YBCO substrate for rf DevelopmentDonglu Shi and David Qu*Physica C*, 353, 258-264, 2001 |
|  | Interface Structural Evolution of and YBCO from a Randomly Oriented Silver Alloy SubstrateDonglu Shi, S. X. Wang, X. Wen, D. Qu, Lumin Wang, Y. Xu, S. M. McClellan, B. A. Tent*Physica C* 353, 258-264 2001 |
|  | Crystal Growth of Single-Domain YBCO Superconductors for Wireless TelecommunicationsDonglu ShiInvited article in the 2001 YEARBOOK OF SCIENCE & TECHNOLOGY by McGraw-Hill |
|  | Structural Effects on Bioactivity of HydroxyapatiteDonglu Shi, Gengwei Jiang, and Jennifer Bauer*Appl. Biomaterials*, 2000 |
|  | Scalling Behavior of RF Surface Resistance in Oxygen Deficient Single Domain YBCOD. Qu, Brian Tent, D. Shi, A. M. Ferendeci, and D. Mast, H. A. Blackstead, and I Maartense*Superton. Sci Technol*, 13, 902, 2000 |
|  | Surface Resistance of Single Domain YBCOD. Qu, D. Shi, H. A. Blackstead, A. M. Ferendeci, and D. Mast*Physica C*, 341, 2657 (2000) |
|  | 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,*IEEE Transactions on Applied Superconductivity* 07/1999; DOI: 10.1109/77.784679 |
|  | Development of C-Axis Textured YBCO on Unoriented Metallic SubstrateXuejun Wen, David Qu, and Donglu Shi*Crygenics*, 1999, in press |
|  | In vitro Bioactive Behavior of Hydroxylaptite-Coated Porous AluminaDonglu Shi, Gengwei Jiang, and Xuejun wen*Applied Biomaterials*, 53, 1999 |
|  | A Scaling Behavior of Surface resistance in the Oxygen-defficient Single Domain YBCOD. Qu, Brian Tent, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast*Superconducting Sci & Tech* (2000),13 902 [doi:10.1088/0953-2048/13/6/356](http://dx.doi.org/10.1088/0953-2048/13/6/356) |
|  | Effect of Oxygen Anneal on rf properties in a Single Domain YBCO Cavity Resonator for Microwave ApplicationsD. Qu, Brian Tent, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast*IEEE-Superconductivity* 9: (2) 892-895, Part 1 JUN 1999 |
|  |  Net-Shape Processing of Single Domain YBCO for a Novel High Q Millimeter Wave ResonatorD. Qu, Donglu Shi, S. L. Lu, A. M. Ferendeci, and D. Mast*Physica C* 315, 36-44 (1999) |
|  | Angle Dependence of Levitation Force in a YBCO SphereB. A. Tent, D. Qu, and Donglu Shi*Physica C* 309 p. 89-97, (1998) |
|  | Direct Peritectic Growth of c-Axis Textured YBCO for Development of Long ConductorsDonglu Shi, D. Qu, X. Wen, B. A. Tent, and M. Tomsic*J. of Superconductivity*, 11 (1998) |
|  | Angle Dependence of Magnetization in a Single Domain YBCO SphereB. A. Tent, D. Qu, Donglu Shi, W. J. Bresser, P. Boolchand, and Z. X. Cai*Phys. Rev. B*, 58 p. 11761 (1998) |
|  | Growth Anisotropy in Seeded Melt Growth of YBa2Cu3OxDonglu Shi, David Qu, and Brian TentInvited article: *Materials Science and Eng. B* 53, 18-22 (1998) |
|  | Effect of Oxygenation on the Levitation Force In Seeded Melt Grown YB2Cu3OxDonglu Shi, David Qu, and Brian Tent*Physica C* 291, 181-187 (1997) |
|  | Synthesis of Hydroxyapatitie Films on Porous Alumina Substrate for Hard Tissue ProstheticsDonglu Shi and Genwei Jiang*Materials Science & Engineering C* 6, 175-182 (1998) |
|  | Coating of Hydroxyapatite on Highly Porous Alumina Substrate through Thermal Decomposition MethodGengwei Jiang and Donglu Shi*J. of Biomaterials* 619, (1997) |
|  | Coating of Hydroxyapatite onto Highly Porous Al2O3 for Structural Bone SubstitutesGengwei Jiang and Donglu Shi*J. of Biomaterials* 564, (1997) |
|  | Surface Nucleation, Domain Growth Mechanisms, and Factors Dominating Superconducting Properties in Seeded Melt Grown YB2Cu3OxDonglu Shi, K. Lahiri, S. Sagar, D. Qu, V. Pan, V. F. Solovjov, and J. R. Hull.*J. of Materials Research* 12, 3036-3045 |
|  | Effect of Extremely Fine Y2BaCuO5 Precipitates on the Critical Current Density of Melt-Processed YBa2Cu3OxS. Sengupta, Donglu Shi, J. S. Luo, A. Buzdin, V. Gorin, V. R. Todt, C. Varanasi, and P. J. McGinn*J. Appl. Phys.* 81, 7396-7408, (1997) |
|  | Domain Orientation Dependence of Levitation Force in Seede Melt Grown YB2Cu3OxDonglu Shi, D. Qu, K. Lahiri, and S. Sagar*Appl. Phys. Lett.* 70, 3606 (1997) |
|  | Seeded-Melt Texturing and Melt Joining of YBa2Cu3OxKrishanu Lahiri, Sandhya Sagar, and Donglu Shi*Crystal Growth of Novel Electronic Materials*, 60, 115-126, (1996) |
|  | Effect of Sample Geometry on Lefitation Force in Single-Domain YBCOSandhya Sagar, Krishanu Lahiri, David Qu, and Donglu Shi*IEEE Magnetics*, 7, 1929 (1996) |
|  | A New Method to Determine the Interface Coupling Strength in Seeded-Melt Textured YBa2CuOxDonglu Shi, Krishanu Lahiri, and Sandhya Sagar*Cryogenics*, 42, 567-572 (1995) |
|  | Flux Pinning by Precipitates in YBa2Cu3Ox - A Cavity ModelS. Sengupta, Donglu Shi, C. Varanasi, P. J. McGinn, V. Gorin, A. Busdin, and J. Luo*Cryogenics*, 42, 609-616 (1995). |
|  | Formation of a Strongly Coupled YBa2Cu3Ox Domain by a Melt-Joining MethodDonglu Shi*Appl. Phys. Lett.,* 66, 2573 (1995). |
|  | Avalanche Flux Dynamics in the Vortex State of Type-II SuperconductorsDonglu Shi and Z. Wang*IEEE Trans. Appl. Supercond*, 5, 1721 (1995). |
|  | Initial Crystallization and Growth in Melt Processing of Large-Domain YBa2Cu3Ox for Magnetic LevitationDonglu Shi, et al.*IEEE Trans. Appl. Supercond*, 5, 1627 (1995). |
|  | Growth of Large-Domain YBa2Cu3 with New Seeding Crystals of CaNdAlO4 and SrLaGaO4Donglu Shi and Krishanu Lahiri, et al.*Physica C*, 246, 253 (1995) |
|  | A New Method for Net-Shape Forming of Large, Single-Domain YBa2Cu3OxY. L. Chen, H. M. Chan, M. P. Harmer, V. R. Todt, S. Sengupta, and D. Shi*Physica C*, 234, 232 (1994) |
|  | Processing of Large YBaCu3Ox-Domain for Levitation Applications by a NdBa2Cu3Ox-seeded Melt-Growth TechniqueV. R. Todt, S. Sengupta, Donglu Shi, J. R. Hull, P. R. Sahm, P. J. McGinn. R. Peoppel*J. Electronic Materials*, 23, 1127 (1994) |
|  | Transport Resistive Broadening via Flux avalanches: SOC in a Driven SystemZ. Wang and Donglu Shi*Solid State Comm.*, 91, 741 (1994) |
|  | Self-organized Criticality near the Bean Critical State: A Power Law Behavior of Flux MotionZ. Wang and Donglu Shi*Solid State Comm.,* 90, 405 (1994) |
|  | Enhanced Flux Pinning through a Phase Formation-Decomposition-Recovery Process in Ag Sheathed Bi(Pb)SrCaCuO WiresS. X. Dou, H. K. Liu, Y. C. Guo, and Donglu Shi*IEEE Trans. Appl. Supercond*. 3, 1135-1137 (1993) |
|  | Factors Dominating Transport Critical Current Behavior in High-Tc Superconductors Donglu Shi Invited article: *J. of Electronic Materials,* ***22*** 1211, 1993 |
|  | Nonlinear U(j) Law from Magnetic Relaxation in Bi2Sr2CaCu2Oxi Single CrystalsS. Sengupta, Donglu Shi, S. Sergeenkov, and P. J. Mcginn*Phys. Rev. B (Rapid Comm.),* 48, 6736 (1993) |
|  | Thermally Activated Avalanche Flux Motion in a Single Crystal of Bi2Sr2CaCu2OxZ. Wang and Donglu Shi*Phys. Rev. B* 48, 9782 (1993) |
|  | Effect of Flux Avalanches on Activation Energy in Type II Superconductors: Evidence for Self-Organized CriticalityZ. Wang and Donglu Shi*Phys. Rev. B* 48, 4208 (1993) |
|  | Critical Current Density and Irreversibility Behavior in Ag-Sheathed Bi-Based Superconducting Wires Fabricated using a Controlled Melt ProcedureS. X. Dou, H. K. Liu, Y. C. Guo, X. Jin, Q. Y. Hu, Donglu Shi, S. Salem-Sugui, Jr., and Z. Wang*Appl. Supercond. 1*, 1515-1522 (1993) |
|  | Effects of Bi-Substution for Tl in 1222-Type Cuprate TlSr2(Nd,Ce)2Cu2OzZ. Chen, Z. Shen, Y. Tang, Y. Li, D. Pederson, K. Goretta, P. Kostic, and Donglu Shi*Physica C* 212, 206-210 (1993) |
|  | Evolution of the Low-Energy Excitations and Dielectric of Ba1-xKxBiO3Y. Y. Wang, H. Zhang, V. P. Dravid, Donglu Shi, D. G. Hinks, Y. Zheng, and J. Jorgensen*Phys. Rev. B* 47, 14503-14509 (1993) |
|  | Penetration Field Studies on Textured YBCO from Low Field Ultrasonic MeasurementsZ. Li, M. Levy, B. Sarma, S. Salem-Sugui, Jr., Donglu Shi, and G. Crabtree*IEEE Trans. Appl. Supercond*. 3, 1406-1408 (1993) |
|  | An Expression for the Time Dependence of Current Density with Avalanche Dynamics in Type II SuperconductorsZ. Wang and Donglu Shi*Phys. Rev. B*, 48 16176 (1993) |
|  | An Alternative Method to Introduce Fine Y2BaCuO5 Precipitates into YBa2Cu3Ox with Enhanced Flux PinningC. Varanasi, S. Sengupta, P. J. McGinn, and Donglu Shi*Appl. Supercond*. 2, 117-121, (1993) |
|  | Flux Creep Activation Energy in High-Tc SuperconductorsS. Salem-Sugui, Jr. and Donglu Shi*Phys. Rev. B* 46, 6618-6621 (1992) |
|  | Point Defects in Materials, Part II: Applications to Different Materials ProblemsD. N. Seidman and Donglu Shi*MRS Bulletin* XVI, 18 (1991) |
|  | Point Defects in Materials, Part I: Behavior and Characteristics in Different Material ClassesD. N. Seidman and Donglu Shi*MRS Bulletin* XVI, 28 (1991) |
|  | Effective Flux-Creep Activation Energy and Anisotropy in a Bi2Sr2CaCu2Ox Single CrystalM. E. Smith, Donglu Shi, S. Sengupta, and Z. Wang*Appl. Supercond*. 1, 151-158 (1993) |
|  | Flux Pinning in Hot Isostatically PressedBi2Sr2CaCu2OxD. J. Miller, S. Sengupta, J. D. Hettinger, D. Shi, K. E. Gray, A. S. Nash, and K. C. Goretta*Appl. Phys. Lett*. 61, 2823-2825 (1992) |
|  | Effective Activation Energy in the Bi-Sr-Ca-Cu-O SystemS. Sengupta, Donglu Shi, Z. Wang, M. Smith, and P. J. McGinn*IEEE Trans. Appl. Supercond*. 3, 1226-1228 (1993) |
|  | Critical Current Density, Irreversibility Line, and Flux-Creep Activation Energy in Silver-Sheathed Bi2Sr2Ca2Cu3OxDonglu Shi, Z. Wang, S. Sengupta, M. E. Smith, L. F. Goodrich, S. X. Dou, H. K. Liu, and Y. C. Guo*IEEE Trans. Appl. Supercond. 3*, 1194-1196 (1993) |
|  | Flux Pinning by 211 Precipitates in Melt-Textured YBa2Cu3OxDonglu Shi, S. Sengupta, M. E. Smith, Z. Wang, A. C. Biondo, U. Balachandran, and K. C. Goretta*IEEE Trans. Appl. Supercond.* 3, 1034-1036 (1993) |
|  | A TEM Study of Grain Boundaries in Zone-Melted YBa2Cu3OxJ. G. Chen, Donglu Shi, C. M. Wayman, P. J. McGinn, W. H. Chen, and N. Zhu*Mater. Lett*. 14, 177-182 (1992) |
|  | Magnetic Relaxation and Intrinsic Pinning in a Single Crystal of Bi2Sr2CaCu3OxS. Sengupta, Donglu Shi, S. Salem-Sugui,Jr., Z. Wang, M. E. Smith, and P. J. McGinn*Phy. Rev. B* 47, 5414-5417 (1993) |
|  | U-j Relationship inType II SuperconductorsS. Sengupta, Donglu Shi, Z. Wang, M. E. Smith, and P. J. McGinn*Phys. Rev. B* 47, 5165-5170 (1993) |
|  | Effect of Y2BaCuOx Precipitates on Flux Pinning in Melt-Processed YBa2Cu3OxS. Sengupta, Donglu Shi, Z. Wang, A. C. Biondo, U. Balachandran, and K. C. Goretta. *Physica C* 199, 43-48 (1992) |
|  | Current Density Dependence of the Activation Energy in Type II SuperconductorsS. Sengupta, Donglu Shi, S. Salem-Sugui, Jr., Zuning Wang, J. I. Budnick, and K. DeMoranville*J. Appl. Phys*. 72, 592-596 (1992) |
|  | Flux-Creep Activation Energy in High-Tc SuperconductorsS. Salem-Sugui, Jr. and Donglu Shi*Phys. Rev. B* 46, 6618-6622 (1992) |
|  | High-Tc Superconductors: Fabricating Technologies and Future PerspectivesK. C. Goretta, W. Wu, C. T. Wu, D. Xu, C. A. Youngdahl, Donglu Shi, J. P. Singh, J. 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: *Mater. Chem. Phys. 31*, 73-78 (1992) |
|  | Magnetic Relaxation in YBa2Cu3OxDonglu Shi and S. Salem-Sugui,Jr.*Phys. Rev. B*, 44, 7647-7650 (1991) |
|  | Increased Irreversibility line by Precipitates Pinning in the Bi-Sr-Ca-Cu-O SystemS. Salem-Sugui,Jr., Donglu Shi, and S. E. McFarland*Supercond. Sci. Technol*. 5, 73-78 (1992) |
|  | Flux Creep and Pinning Energy Distribution in Zone-Melted YBa2Cu3OxDonglu Shi, K. C. Goretta, J. G. Chen, and S. Salem-Sugui,Jr.*Appl. Phys. Lett*. 59, 225-227 (1991) |
|  | Critical Current and Flux Pinning by Crystal Defects in Melt-Textured YBa2Cu3Ox  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, *Ceram. Trans. 18*, 373-382 (1991) |
|  | Strontium-Induced Oxygen Defect Structure and Hole Doping in La2-xSrxCu O4Zhengquan Tan, M. E. Filipkowski, J. I. Budnick, E. K. Heller, D. L. Brewe, B. L. Chamberland, C. E. Bouldin, J. C. Woicik, and Donglu Shi*Phys. Rev. Lett*. 64, 2715-2718 (1991) |
|  | Critical Currents, Magnetic Relaxation, andMicrostructure in Zone-Melted YBa2Cu3OxDonglu Shi, J. G. Chen, M. Xu, P. J. McGinn, W. H. Chen, and K. C. Goretta*IEEE Trans. Magn*. 27, 1080-1082 (1991) |
|  | Transport Critical Current Behavior and Grain Boundary Microstructure in YBa2Cu3OxDonglu Shi, J. G. Chen, M. Xu , A. L. Cornelius, U. Balachandran, and K. C. Goretta*Supercond. Sci. Technol*. 3, 222-226 (1990) |
|  | Nonlinear Logarithmic Time Decay of Magnetization and in a Single Crystal of Bi2Sr2CaCu2OxDonglu Shi and M. Xu *Phys. Rev. B* 44, 4548-4553 (1991) |
|  | Calculations of Magnetic Relaxation in Type II Superconductors Based on Various Critical-State ModelsM. Xu and Donglu Shi*Physica C* 168, 303-308 (1990) |
|  | Transport Critical Current Density and Microstructure in Extruded YBa2Cu3O7-x Wires Processed by Zone MeltingDonglu 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*J. Appl. Phys. 68*, 228-232 (1990) |
|  | YBa2Cu3Ox Toughened by ZrO2 AdditionsK. C. Goretta, O. D. Lacy, U. Balachandran, Donglu Shi, and J. L. Routbort*J. Mater. Sci. Lett*. 9, 380-381 (1990) |
|  | Oxygen Stoichiometry and Flux Creep Activation Energy in YBa2Cu3O7-xDonglu Shi and Mark S. Boley *Supercond. Sci. Technol*. 3, 285-288 (1990) |
|  | Temperature and Field Dependence of Magnetic Relaxation in a Bi2Sr2CaCu2Ox Single CrystalDonglu Shi, M. Xu , A. Umezawa, and R. F. Fox*Phys. Rev. B*.42, 2062-2065 (1990) |
|  | Superconducting Transition Broadening and Flux Creep Activation Energy in Tl2Ca2Ba2Cu3OxDonglu Shi and M. S. Boley *Supercond. Sci. Technol*. 3, 289-292 (1990) |
|  | Irreversibility in BiK0.375Ba0.625O3Donglu 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*Phys. Rev. B* 43, 3684-3687 (1991) |
|  | Crystal Defects and Critical Currents in YBa2Cu3OxDonglu Shi, J. G. Chen, M. Xu , H. E. Kourous, Y. Fang, Y. H. Li, and M. S. Boley*Supercond. Sci. Technol*. 3, 457-463 (1990) |
|  | Full Penetration Temperature and Magnetic Relaxation in a Single Crystal of Bi2Sr2CaCu2OxM. Xu, Donglu Shi, A. Umezawa, K. G. Vandervoort, and G. W. Crabtree*Phys. Rev. B* 43, 13049-13053 (1991) |
|  | High Critical Current Density in Grain-Oriented Bulk YBa2Cu3Ox Processed by Partial-Melt GrowthDonglu Shi, M. M. Fang, J. Akujieze, M. Xu, and J. G. Chen*Appl. Phys. Lett.* 57, 2606-2608 (1990) |
|  | Thermally Activated Dissipation in a Long-Term Annealed Single Crystal of Bi2Sr2CaCu2OxDonglu Shi, H. E. Kourous, M. Xu, and D. H. Kim*Phys. Rev. B.* 43, 514-518 (1991) |
|  | Generalized Critical-State Model for Hard SuperconductorsM. Xu, Donglu Shi, and R. F. Fox*Phys. Rev. B* 42, 10773-10776 (1990) |
|  | Effect of Microstructural Changes on Thermally Activated Flux-Creep Behavior in the Bi-Sr-Ca-Cu-O SystemDonglu Shi, Ming Xu, M. M. Fang, J. G. Chen, A. L. Cornelius, and S. G. Lanan*Phys. Rev. B* 41 8833-8837 (1990) |
|  | Microstructure and Electrical Properties of Bulk High-Tc SuperconductorsU. Balachandran, M. J. McGuire, K. C. Goretta, C. A. Youngdahl, Donglu Shi, R. B. Poeppel, and S. Danyluk*Superconductivity and Appl.*, Plenum Press, NY, 1990, pp. 265 |
|  | Effect of Microstructural Changes on Thermally Activated Flux-Creep in the Bi-Sr-Ca-Cu-O SystemD. Shi, M. Xu, M. M. Fang, J. G. Chen , A. L. Cornelius, and S. G. Lanan*Phys. Rev. B* 41, 8833-8837 (1990) |
|  | Transport Critical Currents and Grain Boundary Weak Links in High-Tc SuperconductorsDonglu Shi *Appl. Supercond*. 1, 61-70 (1993) |
|  | Isothermal Shear Transformation in YBa2Cu3O7-∂Donglu Shi *Physica C* 156, 359-362 (1988) |
|  | Phase Transformations in YBa2Cu3O7-∂Donglu Shi*Phys. Rev. B*. 39, 4299-4305 (1989) |
|  | Transport Critical Current Density in Bi2Sr2CaCu2Ox Single CrystalsD. Shi, Ming Tang Y. C. Chang, P. Z. Jiang, K. Vandervoort, B. Malecki, and D. J. Lam*Appl. Phys. Lett*. 54, 2358-2360 (1989) |
|  | Formation of the 110 K Superconducting Phase via the Amorphous State in the Bi-Sr-Ca-Cu-O SystemDonglu Shi, Ming Tang, K. Vandervoort, and H. Claus*Phys. Rev. B.* 39, 9091-9098 (1989) |
|  | Crystallization of Metal Oxide Glasses in Bi-Sr-Ca-Cu-O SystemsDonglu Shi, M. Tang, M. S. Boley, M. Hash, K. Vandervoort, and H. Claus*Phys. Rev. B*. 40, 2247-2253 (1989) |
|  | Origin of Enhanced Growth of the 110 K Superconducting Phase by Pb Doping in the Bi-Sr-Ca-Cu-O SystemDonglu Shi, J. Akujieze, M. S. Boley, J. G. Chen, M. Xu, and C. U. Segre*Appl. Phys. Lett.* 55, 699-701 (1989) |
|  | Flux Pinning by Precipitates in the Bi-Sr-Ca-Cu-O SystemDonglu Shi, M. S. Boley , U. Welp, and J. G. Chen*Phys. Rev. B* 40, 5255-5258 (1989) |
|  | Lattice Defects and Flux Pinning in Crystallized Metal Oxide Glasses in the Bi-Sr-Ca-Cu-O SystemDonglu Shi, J. G. Chen , U. Welp, M. S. Boley, and A. Zangvil*Appl. Phys. Lett.* 55, 1354-1356 (1989) |
|  | Effect of Oxygen Stoichiometry on Superconducting Transition Broadening in YBa2Cu3OxDonglu Shi, M. Patel, M. S. Boley , R. K. Kalia, and P. Vashishta*J. Appl. Phys*. 66, 2074-2078 (1989) |
|  | Effect of Heat Treatment Time and Temperature on the Properties of YBa2Cu3OxI. Bloom, B. S. Tani, M. C. Hash, Donglu Shi, M. A. Patel, K. C. Goretta, N. Chen, and D. W. Capone*J. Mater. Res.* 4, 1093-1098 (1989) |
|  | Synthesis and Sintering of Tl2Ca2Ba2Cu3OxK. C. Goretta, Donglu Shi, B. S. Malecki, M. C. Hash, and I. Bloom *Supercond. Sci. Technol*. 2, 192-194 (1989) |
|  | Temperature Dependence of Flux Pinning Behavior in YBa2Cu3OxDonglu Shi, M. Xu, M. S. Boley, and U. Welp*Physica C* 160, 417-423 (1989) |
|  | 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*Appl. Phys. Lett.* 55, 2236-2238 (1989) |
|  | Effect of Silver and Silver Oxide Additions on the Mechanical and Superconducting Properties of YBa2Cu3O7-∂ SuperconductorsJ. P. Singh, H. J. Leu, R. B. Poeppel, E. Van Voorhees, G. T. Goudey, K. Winsley, and Donglu Shi*J. Appl. Phys*. **66**, 3154 (1989) |
|  | Anisotropy of Oxygen Tracer Diffusion in YBa2Cu3O7-∂ Single CrystalsS. 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*Def. Diff. Forum 75*, 57-68 (1991) |
|  | Oxygen Diffusion and Phase Transformation in YBa2Cu3O7-xDonglu Shi, J. Krucpzak , Ming Tang, Nan Chen, and R. Bhadra*J. Appl. Phys.* 66, 4325-4328 (1989) |
|  | Influence of Oxygen Concentration on Processing YBa2Cu3O7-xN. Chen, Donglu Shi, and K. C. Goretta*J. Appl. Phys.* 66, 2485-2488 (1989) |
|  | A Superconducting Coil Made of Filamentary CompositesDonglu Shi, M. Xu, J. G. Chen , S. G. Lanan, D. Miller, and K. C. Goretta*Mater. Lett.* 9, 1-4 (1989) |
|  | Flux Pinning and Twin Boundaries in YBa2Ca3O7-xDonglu Shi, M. Boley J. G. Chen, M. Tang, U. Welp, W. K. Kwok, B. Malecki*Supercond. Sci. Technol*. 2, 255-260 (1989) |
|  | Synthesis of a Phase-Pure Orthorhombic YBa2Cu3Ox under Low Oxygen PressureU. 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*Mater. Lett*. 8, 454-456 (1989) |
|  | Swaged Superconducting WiresDonglu Shi and K. C. Goretta*Mater. Lett.* 7, 428-432 (1989) |
|  | Synthesis of 85 K Bi-Sr-Ca-Cu-O SuperconductorF. A. Karbarz, O. D. Lacy, K. C. Goretta, U. Balachandran, D. Shi, J. G. Chen, Ming Xu, and M. C. Hash*Mater. Res. Bull*. 25, 251-256 (1989) |
|  | Kinetics of the Orthorhombic to Tetragonal Phase Transition in YBa2Cu3O7-∂Donglu Shi and D. W. Capone IIHigh Temperature Superconductors II, ed. D. W. Capone II et al. (MRS, Pittsburgh, PA, 1988) pp. 175 |
|  | Microstructural Analysis of Superconducting CeramicsDonglu Shi and R. H. Lee*Microscopy* 36, 191-203 (1988) |
|  | 120 K Superconductivity in the (Bi,Pb)-Sr-Ca-Cu-O SystemU. Balachandran, Donglu Shi, D. I. Dos Santos, S. W. Graham , M. A. Patel, B. S. Tani, K. Vandervoort, H. Claus, and R. B. Poeppel*Physica C* 156, 649-651 (1988) |
|  | Sintering of YBa2Cu3O7-x CompactsDonglu Shi, D. W. Capone II, G. T. Goudey, J. P. Singh, N. J. Zaluzec, and K. C. Goretta*Mater. Lett.* 6, 217-221 (1988) |
|  | A Time-Temperature-Transformation Diagram for the Orthorhombic to Tetragonal Phase Transition in YBa2Cu3O7-∂Donglu Shi, D. W. Capone II, K. C. Goretta, K. Zhang, and G. T. Goudey*J. Appl. Phys*. 63, 5411-5414 (1988) |
|  | 60 K to 90 K Superconducting Phase Transition in YBa2Cu3O7-∂Donglu Shi and D. W. Capone II*Appl. Phys. Lett.* 53, 159-161 (1988) |
|  | Mechanical and Superconducting Properties of Sintered Composite YBa2Cu307-∂ Tape on Silver SubstrateJ. P. Singh, Donglu Shi, and D. W. Capone II*Appl. Phys. Lett*. 53, 237-239 (1988) |
|  | Nucleation and Growth Kinetics of the Tetragonal to Orthorhombic Transition in YBa2Cu3O7xDonglu Shi, K. Zhang, and D. W. Capone II*J. Appl. Phys*. 64, 1995-1998 (1988) |
|  | Synthesis, Structure, and Superconductivity in the Ba1-xKxBiO3-y System, D. G. Hinks, B. Dabrowski, J. D. Jorgensen, A. W. Mitchell, D. R. Richards, Shiyou Pei, and Donglu Shi *Nature* 333, 836-838 (1988) |
|  | 110 K Superconductivity in Crystallized Bi-Sr-Ca-Cu-O GlassesDonglu Shi, Monica Blank, Mita Patel, David G. Hinks, A. W. Mitchell, K. Vandervoort, and H. Claus*Physica C* 156, 822-826 (1988) |
|  | Preparation of Bi-Sr-Ca-Cu-O Superconductors from Oxide-Glass PrecursorsD. G. Hinks, L. Soderholm, D. W. Capone II, B. Dabrowski, A. W. Mitchell, and Donglu Shi*Appl. Phys. Lett*. 53, 423-425 (1988) |
|  | Observations of Preferred Orientation in High-Tc Oxide Superconductor TapesJ. P. Singh, U. Balachandran, Donglu Shi, J. K. Degener, and R. B. Poeppel*Mater. Lett.* 7, 72-74 (1988) |
|  | Upper Critical Fields of YBa2Cu3O7-∂ with 60 K and 90 K Superconductivity and the Weak Link Effect in the SystemDonglu Shi*Appl. Phys.* 64, 4624-4626 (1988) |
|  | 120 K Superconductivity in the (Bi,Pb)-Sr-Ca-Cu-O SystemU. Balachandran, Donglu Shi, D. I. Dos Santos, S. W. Graham, M. A. Patel, B. S. Tani, K. Vandervoort, H. Claus, and R. B. Poeppel*Physica C* 156, 649-651 (1988) |
|  | Calcination of YBa2Cu3O7-x PowderK. 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*Mater. Lett.* 7, 161-164 (1988) |
|  | Effect of Heating Rate on Properties of YBa2Cu3O7-xN. 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*Supercond. Sci. Technol.* 1, 177-179 (1988) |
|  | Observations of Preferred Orientation in High Tc Oxide Superconductor TapesJ. P. Singh, U. Balachandran, Donglu Shi, J. K. Degener, and R. B. Poeppel*Mater. Lett.* 7, 72-75 (1988) |
|  | Mechanical and Superconducting Properties of Sintered Composite YBa2Cu3O7-∂ Tape on Silve SubstrateJ. P. Singh, Donglu Shi, and D. W. Capone*Appl. Phys. Lett.* 53, 239-241 (1987) |
|  | New Processing Technique for Forming Flexible A-15 Superconducting Tapes with Extremely High Critical Current Densities and Magnetic FieldsM. T. Clapp and Donglu Shi*Appl. Phys. Lett.* 49, 1305-1307 (1986) |
|  | A Flexible A-15 Superconducting Tape in the Nb3(AlSiB) SystemM. T. Clapp and Donglu Shi*Adv. Cryog. Eng. Mater*. 32, 1067-1072 (1986) |
|  | Flexible A-15 Superconducting Tapes via the Amorphous State M. T. Clapp and Donglu Shi*J. Appl. Phys*. 57, 4672-4678 (1985) |