

STAFF PUBLICATIONS LIST

(01/07/2006 - 30/06/2007)

CHING Shuk Chi Emily (程淑姿)

CHING Shuk Chi Emily and TAM Wai Shing. "Aspect-ratio Dependence of Heat Transport by Turbulent Rayleigh-Bénard Convection". *Journal of Turbulence* vol.7 N72 (10 pgs.). United Kingdom: Taylor & Francis, 2006. <P069023>

CHING Shuk Chi Emily; LO Ting Shek and PROCACCIA Itamar. "Turbulent Drag Reduction by Flexible and Rodlike Polymers: Crossover Effects at Small Concentrations". *Physical Review E* vol.74 026301 (6 pgs.). USA: The American Physical Society, 2006.08.16. <P063291>

CHING Shuk Chi Emily. "Scaling Laws in the Central Region of Confined Turbulent Thermal Convection". *Physical Review E* vol.75 056302 (6 pgs.). USA: The American Physical Society, 2007.05.01. <P077488>

CHU Ming Chung (朱明中)

LI Baojiu and CHU Ming Chung. "CMB and Matter Power Spectra of Early f(R) Cosmology in the Palatini Formulation". *Physical Review D* vol.74 104010. USA: American Physical Society, 2006.11.07. <P068531>

CHAN Man Ho and CHU Ming Chung. "Heating of the Intergalactic Medium by the Radiative Decay of Neutrinos". *The Astrophysical Journal* vol.658 pp.859-864. United States of America: University of Chicago Press, 2007.04.01. <P079189>

CHAN Kwan Chuen and CHU Ming Chung. "Constraining the Variation of G by Cosmic Microwave Background Anisotropies". *Physical Review D* vol.75 083521. USA: American Physical Society, 2007.04.15. <P079029>

GONG Changde (龔昌德)

WANG Y. F. and GONG Changde. "Redistributing Chern Numbers of Landau Subbands: Tight-Binding Electrons under Staggered Modulated Magnetic Fields". *Physical Review Letters* vol.98 096802 (4 pgs.). USA: The American Physical Society, 2007.03.02. <P072897>

GU Shijian (顧世建)

DENG Shusa; GU Shijian and LIN Hai Qing. "Block-block Entanglement and Quantum Phase Transitions in the One-dimensional Extended Hubbard Model". *Physical Review B* vol.74 045103 (7 pgs.). USA: The American Physical Society, 2006.07.06. <P067084>

SU Shiquan; SONG Junliang and GU Shijian. "Local Entanglement and Quantum Phase Transition in a One-dimensional Transverse Field Ising Model". *Physical Review A* vol.74 032308 (5 pgs.). USA: The American Physical Society, 2006.09.12. <P069354>

SONG Junliang; GU Shijian and LIN Hai Qing. "Quantum Entanglement in the $S=1/2$ Spin Ladder with Ring Exchange". *Physical Review B* vol.74 155119 (6 pgs.). USA: The American Physical Society, 2006.10.23. <P063519>

GU Shijian and LIN Hai Qing. "Entanglement Evolution and Distillation Under a Local Magnetic Pulse". *Physics Letters A* vol.361 pp.39-42. Netherlands: Elsevier Science BV, 2007.01.22. <P078517>

CARMELO J. M. P.; GU Shijian and PERES N.. "Role of Symmetry in the Interplay of $T = 0$ Quantum-phase Transitions with Unconventional $T > 0$ Transport Properties in Integrable Quantum Lattice Systems". *Europhysics Letters* vol.78 17005 (5 pgs.). IOP Publishing Ltd, 2007.04. <P072802>

WANG Z. G.; CHEN Y. G. and GU Shijian. "Bosonization Study of Quantum Phase Transitions in the One-dimensional Asymmetric Hubbard Model". *Physical Review B* vol.75 165111 (6 pgs.). USA: The American Physical Society, 2007.04.17. <P071470>

ZHANG Qiulan and GU Shijian. "Spin Transport Properties of the One-dimensional Heisenberg Chain: Bethe-Ansatz Solution with Twist Boundary Conditions". *Chinese Physics Letters* vol.24 pp.1354-1356. China: Chinese Physical Society, 2007.05. <P072010>

HARK Sui Kong (郝少康)

馮敏、郝少康、劉壯、王榮、龔明及王昌燧。〈透閃石質古玉風化性狀剖析〉。《第五屆中國玉文化玉學江陽研討會—中國南方地區玉文化研究專題論文集》(2005年9月),頁442-448。中國,2006。<P069953>

馮敏、劉壯、郝少康、龔明、張敬國及王昌燧。〈對"鷄骨白"古玉受沁情況的研究(A)〉。《凌家灘文化研究》安徽省文物考古研究所編。頁256-260。中國北京:文物出版社,2006.07。<P069132>

ZHANG Xitian; LIU Zhuang; WONG Ching Chi and HARK Sui Kong. "Synthesis and Optical Properties of Single Crystalline GaN Nanorods with a Rectangular Cross-section". *Solid State Communications* vol.139 pp.387-390. Netherlands: Elsevier B.V., 2006.08. <P069971>

SHAN Chongxin; LIU Zhuang and HARK Sui Kong. "Photoluminescence Polarization in Individual CdSe Nanowires". *Physical Review B* vol.74 153402 (4 pgs.). USA: The American Physical Society, 2006.10.04. <P063845>

ZHANG Xitian; LIU Zhuang; ZHENG Zhi and HARK Sui Kong. "Synthesis and Photoluminescent Properties of Well-aligned, Homogeneous SiO_xN_y Nanowire Bundles". 第一屆粵雜納米材料發光性質學術會議 p.17. 海南, 中國, 2006.11. <P061686>

HONG Liang; LIU Zhuang; ZHANG Xitian and HARK Sui Kong. "Self-catalytic Growth of Single-phase AlGa_N Alloy Nanowires by Chemical Vapor Deposition". *Applied Physics Letters* vol.89 193105 (3 pgs.). USA: American Institute of Physics, 2006.11.06. <P062863>

SHAN Chongxin; LIU Zhuang; ZHANG Xitian; WONG C. C. and HARK Sui Kong. "Wurtzite ZnSe Nanowires: Growth, Photoluminescence, and Single-wire Raman Properties". *Nanotechnology* vol.17 pp.5561-5564. United Kingdom: IOP Publishing Ltd, 2006.11.28. <P065735>

WANG Juan; ZHOU Minjie; HARK Sui Kong; LI Quan; TANG D.; CHU M. W. and CHEN C. H.. "Local Electronic Structure and Luminescence Properties of Er Doped ZnO Nanowires". *Applied Physics Letters* vol.89 221917 (3 pgs.). USA: American Institute of Physics, 2006.11.30. <P069986>

SHAN Chongxin; LIU Zhuang; WONG C. C. and HARK Sui Kong. "Doped ZnO Nanowires Obtained by Thermal Annealing". *Journal of Nanoscience and Nanotechnology* vol.7 pp.700-703. USA: American Scientific Publishers, 2007.02. <P079926>

XU Haiyang; LIU Zhuang; ZHANG Xitian and HARK Sui Kong. "Synthesis and Optical Properties of InN Nanowires and Nanotubes". *Applied Physics Letters* vol.90 113105 (3 pgs.). USA: American Institute of Physics, 2007.03.12. <P073618>

ZHANG Xitian; LIU Zhuang; WONG Ching Chi; HARK Sui Kong; KE Ning and WONG Sai Peng Joseph. "Fabrication and Optical Properties of Erbium-doped Silicon-rich Silicon Oxide Nanofibers". *Journal of Physical Chemistry C* vol.111 pp.4083-4086. USA: American Chemical Society, 2007.03.22. <P074535>

WONG Ka Wai; SIN Mandy Lai Yi; YEUNG Mei Ki; HARK Sui Kong and LAU Woon Ming Leo. "Molecular Interfacial Engineering of Adhesion between Polyfluorene and Indium-tin Oxide". *Applied Physics A* vol.87 pp.23-26. USA: Springer-Verlag, 2007.04. <P078815>

ZHANG Xitian; LIU Zhuang; ZHENG Zhi; HARK Sui Kong; FU Y. B. and ZHANG G. B.. "Synthesis and Photoluminescence Properties of Well-aligned Ga-doped N-rich SiO_xN_y Nanowire Bundles". *Applied Physics Letters* no.90, 183110 (3 pgs.). USA: The American Institute of Physics, 2007.04.30. <P070508>

SHAN Chongxin; LIU Zhuang and HARK Sui Kong. "CdSe Nanowires with Controllable Growth Orientations". *Applied Physics Letters* vol.90 193123 (3 pgs.). USA: The American Institute of Physics, 2007.05.07. <P073164>

HUI Pak Ming (許伯銘)

ZHOU Tao; WANG Bing Hong; HUI Pak Ming and CHAN King Pak. "Topological Properties of Integer Networks". *Physica A* vol.367 pp.613-618. Netherlands: Elsevier B.V., 2006.07.15. <P062442>

ZHANG L. F.; XU C.; HUI Pak Ming and MA Y. Q.. "Tunneling Magnetoresistance in Small Dot Arrays with Perpendicular Anisotropy". *The European Physical Journal B* vol.52 pp.305-309. Germany: Springer-Verlag, 2006.08. <P066827>

許伯銘. <從現在開始的十年變遷 – 2016 年的謎思和期待>. 邀請報告發表於《第十屆全國高等物理教育研究學術交流會》(香港學術交流部份), 主辦機構為全國高等物理教育研究會, 華南師範大學及香港教育學院. 香港, 2006.08.08. <P068892>

FONG King Yan and HUI Pak Ming. "Coupling of Waveguide and Surface Modes in Enhanced Transmission Through Stacking Gratings". *Applied Physics Letters* vol.89 091101 (3 pgs.). USA: American Institute of Physics, 2006.08.28. <P062929>

XU Chen and HUI Pak Ming. "Second Harmonic Generation in Random Composites of Particles with Core-shell Structure". *Journal of Applied Physics* vol.100 043524 (4 pgs.). USA: American Institute of Physics, 2006.08.31. <P068935>

LIU Zonghua; MA Weichuan; ZHANG Huan; SUN Yin and HUI Pak Ming. "An Efficient Approach of Controlling Traffic Congestion in Scale-free Networks". *Physica A* vol.370 pp.843-853. Netherlands: Elsevier B.V., 2006.10.15. <P069349>

汪秉宏、王文旭及許伯銘. <通訊網絡—基於局域信息的最佳路由研究>. 《複雜網絡》 郭雷, 許曉鳴編. 頁 247-260. 中國上海: 上海科技教育出版社, 2006.11. <P068698>

ZHONG L. X.; ZHENG D. F.; ZHENG B.; XU Chen and HUI Pak Ming. "Networking Effects on Cooperation in Evolutionary Snowdrift Game". *Europhysics Letters* vol.76 pp.724-730. EDP Sciences, 2006.11.15. <P060322>

FONG King Yan and HUI Pak Ming. "Wave Characteristics in Gratings by Linear Superposition of Retarded Fields". *Journal of Optical Society of America A* vol.23 pp.3229-3237. USA: Optical Society of America, 2006.12. <P069638>

FU C. J.; WANG B. H.; YIN C. Y.; ZHOU T.; HU B.; GAO K.; HUI Pak Ming and HU C. K.. "Analytical Studies on a Modified Nagel-Schreckenberg Model with the Fukui-Ishibashi Acceleration Rule". *Chaos, Solitons & Fractals* vol.31 pp.772-776. England: Elsevier Ltd., 2007.02. <P072488>

ZHANG Huan; LIU Zonghua; TANG Ming and HUI Pak Ming. "An Adaptive Routing Strategy for Packet Delivery in Complex Networks". *Physics Letters A* vol.364 pp.177-182. Netherlands: Elsevier B.V., 2007.04.30. <P076550>

LAI Hon Ming (賴漢明)

LAI Hon Ming; CHAN Siu Wai and WONG Wing Hung. "Nonspecular Effects on Reflection from Absorbing Media at and around Brewster's Dip". *Journal of the Optical Society of America A* vol.23 pp.3208-3216. Optical Society of America, 2006.12.24. <P064565>

LAU Leo Woon Ming (劉煥明)

ZHENG Zhi; KWOK Wai Man Raymond and LAU Woon Ming Leo. "A New Cross-linking Route via the Unusual Collision Kinematics of Hyperthermal Protons in Unsaturated Hydrocarbons: The Case of Poly(trans-isoprene)". *Chemical Communications* no.29, pp.3122-3124. Royal Society of Chemistry, 2006. <P064169>

XI Luan; MA L. Y.; WANG Z. T.; XUE Q. K.; XIAO X. D. and LAU Woon Ming Leo. "Study of Fe Deposition onto Root 3 x Root 3-Al/Si(111) Template by Scanning Tunneling Microscopy". *Surface Science* vol.600 pp.3072-3078. Netherlands: Elsevier Science B.V., 2006.08.01. <P065150>

XU Xiangdong; KWOK Wai Man Raymond and LAU Woon Ming Leo. "Surface Modification of Polystyrene by Low Energy Hydrogen Ion Beam". *Thin Solid Films* vol.514 pp.182-187. Netherlands: Elsevier B.V., 2006.08.30. <P069179>

YU Jie; ZHENG Zhi; ONG Hock Chun Daniel; WONG King Young; MATSUMOTO S. and LAU Woon Ming Leo. "Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition". *Journal of Physical Chemistry B* vol.110 pp.21073-21076. USA: American Chemical Society, 2006.10.26. <P063279>

LI Quan; WONG S. F.; LAU Woon Ming Leo and ONG C. W.. "Study of the Surface Layer in cBN Growth by PVD Techniques". *Diamond and Related Materials* vol.16 pp.421-424. Netherlands: Elsevier B.V., 2007.03. <P079243>

WONG Ka Wai; SIN Mandy Lai Yi; YEUNG Mei Ki; HARK Sui Kong and LAU Woon Ming Leo. "Molecular Interfacial Engineering of Adhesion between Polyfluorene and Indium-tin Oxide". *Applied Physics A* vol.87 pp.23-26. USA: Springer-Verlag, 2007.04. <P078815>

ZHENG Zhi; WONG Ka Wai; LAU Wai Cheung; KWOK Wai Man Raymond and LAU Woon Ming Leo. "Unusual Kinematics-driven Chemistry: Cleaving C-H but Not COO-H Bonds with Hyperthermal Protons to Synthesize Tailor-Made Molecular Films". *Chemistry - A European Journal* vol.13 pp.3187-3192. Germany: WILEY-VCH Verlag GmbH & Co., 2007.04.05. <P075867>

NIE H. Y.; MCLINTYRE N. S. and LAU Woon Ming Leo. "Nanolithography of a Full-coverage Octadecylphosphonic Acid Monolayer Spin Coated on a Si Substrate". *Applied Physics Letters* vol.90 203114 (3 pgs.). USA: American Institute of Physics, 2007.05.14. <P073348>

LAW Chi Kwong (羅志光)

PONG Yue Hin and LAW Chi Kwong. "Natural Orbits of Atomic Cooper Pairs in a Nonuniform Fermi Gas". *Physical Review A* vol.74 no.1, 013618 (6 pgs.). USA: American Physical Society, 2006.07.18. <P064780>

CHAN W. H. and LAW Chi Kwong. "Fractional Revivals and Quantum Entanglement via Coupled Angular Momenta". *Physical Review A* vol.74 024301 (4 pgs.). USA: The American Physical Society, 2006.08.16. <P064317>

LAW Chi Kwong and LEE S. K. Y.. "Dynamic Photon-mode Selection in Dicke Superradiance". *Physical Review A* vol.75 033813 (6 pgs.). USA: The American Physical Society, 2007.03.27. <P079656>

PONG Yue Hin and LAW Chi Kwong. "Bosonic Characters of Atomic Cooper Pairs Across Resonance". *Physical Review A* vol.75 043613 (5 pgs.). USA: The American Physical Society, 2007.04.18. <P078893>

LEE Wing Kee (李榮基)

LEE Wing Kee and CHAN Tak Shun. "Experimental Investigation of Phase-dependent Interactions of Photovoltaic Bright Spatial Solitons in Photorefractive Fe:LiNbO₃". *Journal of the Optical Society of America B* vol.23 pp.1920-1924. USA: Optical Society of America, 2006.09. <P063366>

SHE W. L.; XU Chicheng; GUO Bin and LEE Wing Kee. "Formation of Photovoltaic Bright Spatial Soliton in Photorefractive LiNbO₃ Crystal by a Defocused Laser Beam Induced by a Background Laser Beam". *Journal of the Optical Society of America B* vol.23 pp.2121-2126. USA: Optical Society of America, 2006.10. <P065811>

WANG X. S.; SHE W. L. and LEE Wing Kee. "Optical Spatial Soliton Supported by Photoisomerization Nonlinearity in Polymer with a Background Beam". *Journal of the Optical Society of America B* vol.23 pp.2127-2133. USA: Optical Society of America, 2006.10. <P066771>

LEUNG Pui Tang (梁培燈)

TSUI Lung Kwan; LEUNG Pui Tang and WU Jun. "Determination of the Internal Structure of Neutron Stars from Gravitational Wave Spectra". *Physical Review D* vol.74 124025 (15 pgs.). USA: The American Physical Society, 2006.12.21. <P065557>

LI Baojiu (李寶九)

FANG W.; LU H. Q.; LI Baojiu and ZHANG K. F.. "A Comparison of Quintessence and Non-Linear Born-Infeld Scalar Field Using Gold Supernova Data". *International Journal of Modern Physics D* vol.15 pp.1947-1961. Singapore: World Scientific, 2006.11.

LI Quan (李泉)

XU Yeming; LI Quan and SHI Liang. "Degradation of single crystalline ZnS nanotubes under the electron beam irradiation in a transmission electron microscope". *Invited paper presented in the Advance Microscopy Workshop of Asian Pacific*, ed. by Ijima. 1 pgs. Sapporo, Japan, 2006.09.03. <P067726>

WANG H.; WANG H. B.; YANG F. J.; CHEN Y.; ZHANG C.; YANG C. P.; LI Quan and WONG Sai Peng Joseph. "Structure and Magnetic Properties of Zn_{1-x}Co_xO Single-crystalline Nanorods Synthesized by a Wet Chemical Method". *Nanotechnology* vol.17 pp.4312-4316. United Kingdom: IOP Publishing Ltd, 2006.09.14. <P068492>

WANG X. F.; XU Jianbin; ZHANG B.; YU H. G.; WANG Juan; ZHANG X.; YU J. G. and LI Quan. "Signature of Intrinsic High-temperature Ferromagnetism in Cobalt-doped Zinc Oxide Nanocrystals". *Advanced Materials* vol.18 pp.2476 - 2480. Germany: WILEY-VCH Verlag GmbH & Co., 2006.09.18. <P068748>

XUE S. X.; WANG H.; WANG H. B.; YANG F. J.; WANG J. A.; CAO X.; GAO Y.; HUANG Z. B.; LI Z. Y.; LI Quan and WONG Sai Peng Joseph. "(001) Textured CoPt-Ag Nanocomposite Films for High-density Perpendicular Magnetic Recording". *Journal of Magnetism and Magnetic Materials* vol.306 pp.332-336. Netherlands: Elsevier B.V., 2006.11.11. <P064126>

WANG Juan; ZHOU Minjie; HARK Sui Kong; LI Quan; TANG D.; CHU M. W. and CHEN C. H.. "Local Electronic Structure and Luminescence Properties of Er Doped ZnO Nanowires". *Applied Physics Letters* vol.89 221917 (3 pgs.). USA: American Institute of Physics, 2006.11.30. <P069986>

MELDRUM A.; HRYCIW A.; MACDONALD A. N.; BLOIS C.; CLEMENT T.; DECORBY R.; WANG Juan and LI Quan. "Interaction Between Rare-earth Ions and Amorphous Silicon Nanoclusters Produced at Low Processing Temperatures". *Journal of Luminescence* vol.121 pp.199-203. Netherlands: Elsevier B.V., 2006.12. <P066589>

WANG Xiaofeng; LI Quan; EGERTON R. F.; LEE P. F.; DAI J. Y.; HOU Z. F. and GONG X. G.. "Effect of Al Addition on the Microstructure and Electronic Structure of HfO₂ Film". *Journal of Applied Physics* vol.101 013514 (5 pgs.). USA: American Institute of Physics, 2007.01.01. <P078327>

WANG Juan; WANG Xiaofeng; LI Quan; HRYCIW A. and MELDRUM A.. "The Microstructure of SiO Thin Films: From Nanoclusters to Nanocrystals". *Philosophical Magazine* vol.87 pp.11-27. England: Taylor & Francis Ltd, 2007.01.01. <P078861>

SONG R. Q.; XU A. W.; DENG B.; LI Quan and CHEN G. Y.. "From Layered Basic Zinc Acetate Nanobelts to Hierarchical Zinc Oxide Nanostructures and Porous Zinc Oxide Nanobelts". *Advanced Functional Materials* vol.17 pp.296-306. Germany: WILEY-VCH Verlag GmbH & Co., 2007.01.22. <P077045>

WANG H.; CHEN Y.; WANG H. B.; ZHANG C.; YANG F. J.; DUAN J. X.; YANG C. P.; XU Yeming; ZHOU Minjie and LI Quan. "High Resolution Transmission Electron Microscopy and Raman Scattering Studies of Room Temperature Ferromagnetic Ni-doped ZnO Nanocrystals". *Applied Physics Letters* vol.90 052505 (3 pgs.). USA: American Institute of Physics, 2007.01.29. <P073167>

HU Xianluo; YU Jimmy C.; GONG Jingming and LI Quan. "A Facile Surface-Etching Route to Thin Films of Metal Iodides". *Crystal Growth & Design* vol.7 pp.262-267. United States of America: American Chemical Society, 2007.02. <P072561>

LU L. R.; AI Z. H.; LI J. P.; ZHENG Z.; LI Quan and ZHANG L. Z.. "Synthesis and Characterization of Fe-Fe₂O₃ Core-shell Nanowires and Nanonecklaces". *Crystal Growth & Design* vol.7 pp.459-464. USA: American Chemical Society, 2007.02. <P079256>

LI Quan; WONG S. F.; LAU Woon Ming Leo and ONG C. W.. "Study of the Surface Layer in cBN Growth by PVD Techniques". *Diamond and Related Materials* vol.16 pp.421-424. Netherlands: Elsevier B.V., 2007.03. <P079243>

ZHOU Minjie and LI Quan. "Microstructure and Mechanical Properties of B₄C Films Deposited by Ion Beam Sputtering". *Abstracts of the 1995 Int' l Conference on Metallurgical Coatings and Thin Films*, 2007.04.25. <P073394>

SHI Liang; XU Yeming; LI Quan; WU Z. Y.; CHEN F. R. and KAI J. J.. "Single Crystalline ZnS Nanotubes and Their Structural Degradation Under Electron Beam Irradiation". *Applied Physics Letters* vol.90 211910 (3 pgs.). USA: American Institute of Physics, 2007.05.21. <P078122>

GAO Yun; CHONG Yuen Tung; CHOW Chi Fai; WONG Sai Peng Joseph; HOMEWOOD K. P. and LI Quan. "Post-annealing Effect on the Microstructure and Photoluminescence Properties of the Ion Beam Synthesized FeSi₂ Precipitates in Si". *Nuclear Instruments and Methods in Physics Research Section B* vol.259 pp.871-874. Netherlands: Elsevier B.V., 2007.06. <P070388>

WANG Juan; LI Quan and EGERTON R. F.. "Probing the Electronic Structure of ZnO Nanowires by Valence Electron Energy Loss Spectroscopy". *Micron* vol.38 pp.346-353. Netherlands: Elsevier B.V., 2007.06. <P075034>

LIN Hai Qing (林海青)

DENG Shusa; GU Shijian and LIN Hai Qing. "Block-block Entanglement and Quantum Phase Transitions in the One-dimensional Extended Hubbard Model". *Physical Review B* vol.74 045103 (7 pgs.). USA: The American Physical Society, 2006.07.06. <P067084>

WANG Yongqiang; LIN Hai Qing and GUBERNATIS J. E.. "Zero Temperature Numerical Studies of Multiband Lattice Models of Strongly Correlated Electrons". *Communications in Computational Physics* vol.1 pp.575-615. Hong Kong SAR: Global-Science Press, 2006.08. <P069075>

SONG Junliang; GU Shijian and LIN Hai Qing. "Quantum Entanglement in the S=1/2 Spin Ladder with Ring Exchange". *Physical Review B* vol.74 155119 (6 pgs.). USA: The American Physical Society, 2006.10.23. <P063519>

CHEN Shu; WANG Y. P.; NING W. Q.; WU C. J. and LIN Hai Qing. "Exact Ground State and Elementary Excitations of the Spin Tetrahedron Chain". *Physical Review B* vol.74 174424 (8 pgs.). USA: The American Physical Society, 2006.11.21. <P065925>

GU Shijian and LIN Hai Qing. "Entanglement Evolution and Distillation Under a Local Magnetic Pulse". *Physics Letters A* vol.361 pp.39-42. Netherlands: Elsevier Science BV, 2007.01.22. <P078517>

YOU Wenlong; TIAN Guangshan and LIN Hai Qing. "Long Range Order in Orbital Model". *Annual American Physical Society (APS) March Meeting* p.9. Denver, USA: The American Physical Society, 2007.03.05. <P073518>

LI Ying Wai and LIN Hai Qing. "Numerical Integration Using Wang-Landau Sampling". *Paper presented in the 2007 APS March Meeting* 11 pgs. 2007.03.05. <P079234>

CHEN X. J.; STRUZHKIN V. V.; WU Z. G.; LIN Hai Qing; HEMLEY R. J. and MAO H. K.. "Unified Picture of the Oxygen Isotope Effect in Cuprate Superconductors". *Proceedings of the National Academy of Sciences of the United States of America* vol.104 pp.3732-3735. USA: The National Academy of Sciences, 2007.03.06. <P078047>

SU Shiquan; HUANG Zhongbing and LIN Hai Qing. "Numerical Study of Ferromagnetic Fluctuation and Pairing Correlation in the Single-band Hubbard Model on Triangular Lattice". *Annual American Physical Society (APS) March Meeting* p.8. 2007.03.08. <P079434>

CHEN X. J.; STRUZHKIN V. V.; WU Z. G.; HEMLEY R. J.; MAO H. K. and LIN Hai Qing. "Phonon-mediated Superconducting Transitions in Layered Cuprate Superconductors". *Physical Review B* vol.75 134504 (11 pgs.). USA: The American Physical Society, 2007.04.06. <P072753>

WANG X. L.; ZENG Z.; ZHENG X. H. and LIN Hai Qing. "First-principles Investigations of Co- and Fe-doped SnO₂". *Journal of Applied Physics* vol.101 09H104 (3 pgs.). USA: American Institute of Physics, 2007.05.01. <P072949>

ZHONG G. H.; WANG J. L.; ZENG Z.; ZHENG X. H. and LIN Hai Qing. "Induced Effects by the Substitution of Mg in MgCNi₃". *Journal of Applied Physics* vol.101 09G520 (3 pgs.). USA: American Institute of Physics, 2007.05.01. <P075772>

YOU Wenlong; TIAN G. S. and LIN Hai Qing. "Existence of Long-range Orbital Order in a Two-dimensional Orbital-only Model". *Physical Review B* vol.75 195118 (10 pgs.). USA: The American Physical Society, 2007.05.17. <P077408>

LIN Lap Ming (練立明)

LIN Lap Ming and NOVAK J.. "A New Spectral Apparent Horizon Finder for 3D Numerical Relativity". *Classical and Quantum Gravity* vol.24 pp.2665-2676. England: IOP Publishing Ltd, 2007.05.21. <P058058>

LIU Kwok Leung (廖國樑)

YIM Man Yi and LIU Kwok Leung. "Linear Response and Stochastic Resonance of Subdiffusive Bistable Fractional Fokker-Planck Systems". *Physica A* vol.369, pp.329-342. The Netherlands: Elsevier B.V., 2006.09.15. <P060718>

YIM Man Yi and LIU Kwok Leung. "The Response of Subdiffusive Bistable Fractional Fokker-Planck Systems to Rectangular Signals". *Journal of Physics A: Mathematical and Theoretical* vol.40 pp.4997-5012. United Kingdom: IOP Publishing Ltd, 2007.04.24. <P074112>

LIU Renbao (劉仁保)

LIU Ren-Bao; YAO W. and SHAM L. J.. "Reversing the 'Irreversible': Control of Decoherence in a Mesoscopic Spin Bath". *Invited paper presented in the International Conference on Quantum Foundations & Technologies*. Hangzhou, China, 2006.08. <P060386>

LIU Ren-Bao; YAO W. and SHAM L. J.. "Cavity QED of Semiconductor Quantum Dots for Quantum Information Processing". *Invited paper presented in the CPS Fall Meeting*. Beijing, China, 2006.09. <P064897>

YAO W.; LIU Ren-Bao and SHAM L. J.. "Theory of Electron Spin Decoherence by Interacting Nuclear Spins in a Quantum Dot". *Physical Review B* vol.74 195301 (11 pgs.). USA: The American Physical Society, 2006.11.01. <P070792>

LIU Ren-Bao; ECONOMOU S. E.; SHAM L. J. and STEEL D. G.. "Optical Generation and Measurement of Spin Coherence of an Electron in a Quantum Dot". *Invited paper presented in The 3rd Workshop on Quantum Information Science and Technology*. Taiwan, 2007.01. <P071405>

LIU Ren-Bao; ECONOMOU S. E.; SHAM L. J. and STEEL D. G.. "Theory of Nonlinear Optical Spectroscopy of Electron Spin Coherence in Quantum Dots". *Physical Review B* vol.75 085322 (6 pgs.). USA: The American Physical Society, 2007.02.26. <P074498>

LIU Ren-Bao and ZHU Bang-fen. "High-order THz-sideband Generation in Semiconductors". Paper presented in the 28th International Conference on the Physics of Semiconductors, IUPAP C8 commission, Gesellschaft für Mikro und Nanoelektronik (GMe), Austrian Research Centers, ARCS, 2 pgs. New York, USA, 2007.04.10. <P066290>

LIU Ren-Bao; ECONOMOU E Sophia; SHAM J Lu and STEEL G Duncan. "Theory on Measuring Electron Spin Decoherence Times by Nonlinear Optical Spectroscopy of Quantum Dots". Paper presented in the 28th International Conference on the Physics of Semiconductors, organized by IUPAP C8 commission, Gesellschaft für Mikro und Nanoelektronik (GMe), Austrian Research Centers, ARCS, 2 pgs. New York, USA, 2007.04.10. <P079403>

YAO W.; LIU Ren-Bao and SHAM L. J.. "Optically Manipulating Spins in Semiconductor Quantum Dots". *Journal of Applied Physics* vol.101 081721 (5 pgs.). USA: American Institute of Physics, 2007.04.15. <P070194>

LIU Ren-Bao. "Optical Generation and Measurement of Electron Spin Coherence in Quantum Dots". *Invited paper presented in Workshop on Quantum Engineering and Physics of Quantum Devices*. Dalian, China, 2007.05. <P076874>

LIU Ren-Bao. "Optical Generation and Detection of Spin Coherence in Artificial Atoms". *Invited paper presented in the 1st International Conference on Quantum Manipulation of Photons and Atoms*. Beijing, China, 2007.06. <P074397>

LO Chi Fai (羅志輝)

LO Chi Fai and KWOK C. M. Y.. "Modelling Suicide Risk in Later Life". *Mathematical Biosciences* vol.202 pp.340-348. Netherlands: Elsevier B.V., 2006.08. <P062862>

HUI C. H. and LO Chi Fai. "Currency Barrier Option Pricing with Mean Reversion". *Journal of Futures Markets* vol.26 pp.939-958. USA: John Wiley & Sons Inc., 2006.10. <P062290>

LO Chi Fai and CHUNG Tsz Kin. "First Passage Time Problem for the Ornstein-Uhlenbeck Neuronal Model". *Lecture Notes in Computer Science* vol.4232, paper presented in the 13th International Conference on Neural Information Processing, pp.324-331. Germany: Springer, 2006.10. <P067106>

LO Chi Fai. "First Passage Time Density for the Disease Progression of HIV Infected Patients". *Engineering Letters* vol.13 12 (6 pgs.). Hong Kong SAR: International Association of Engineers, 2006.11. <P067131>

LO Chi Fai and HUI C. H.. "Lie-algebraic Approach for Pricing Moving Barrier Options with Time-dependent Parameters". *Journal of Mathematical Analysis and Applications* vol.323 pp.1455-1464. USA: Elsevier Inc., 2006.11.15. <P060979>

LO Chi Fai and HUI C. H.. "Computing the First Passage Time Density of a Time-dependent Ornstein-Uhlenbeck Process to a Moving Boundary". *Applied Mathematics Letters* vol.19 pp.1399-1405. USA: Elsevier Ltd, 2006.12. <P062140>

LO Chi Fai. "Valuing Double Barrier Options with Time-dependent Parameters by Fourier Series Expansion". *IAENG International Journal of Applied Mathematics* vol.36 1 (5 pgs.). Hong Kong SAR: International Association of Engineers, 2007. <P074011>

LO Yam Kuen Dennis (羅蔭權)

LO Yam Kuen Dennis; LAWLESS J. L. and CHEN R.. "Superlinear Dose Dependence of High Temperature Thermoluminescence Peaks in Al₂O₃:C". *Radiation Protection Dosimetry* vol.119 pp.71-74. United Kingdom: Oxford University Press, 2006.09. <P063188>

CHEN R.; LO Yam Kuen Dennis and LAWLESS J. L.. "Non-monotonic Dose Dependence of Thermoluminescence". *Radiation Protection Dosimetry* vol.119 pp.33-36. United Kingdom: Oxford University Press, 2006.09. <P066158>

SHI Lei; CHAN Jacklynn; YE Chao; WANG Jun; LO Yam Kuen Dennis and ZHU X. L.. "Optical Properties of Dye-doped Zirconia Films by Spectroscopic Ellipsometry". *Optics Communications* vol.267 pp.427-432. Netherlands: Elsevier B.V., 2006.11.15. <P064551>

NG Hang Leung Dickon (吳恆亮)

CHEUNG L. Y. Teresa and NG Hang Leung Dickon. "Growth of SiO₂ Nanowires on Bamboo-Biotemplates". *Paper presented in the Proceedings of the 14th International Conference on Composites/Nano Engineering (ICCE-14)* ed. by David Hui. 2 pgs. Boulder, Colorado, USA, 2006.07.02. <P066473>

HON Wan Man and NG Hang Leung Dickon. "Effect of Boron Concentration on the Superconductive and Microstructural Properties of MgB₂/Mg Composites". Paper presented in the Materials and Mechanisms of Superconductivity and High Temperature Superconductors, organized by M2S-HTSC. Dresden, Germany, 2006.07.09. <P063746>

HO Man-wai; LAM Chun-ki; LAU Kin-tak; NG Hang Leung Dickon and HUI David. "Mechanical Properties of Epoxy-based Composites Using Nanoclays". *Composite Structures* vol.75 pp.415-421. England: Elsevier Ltd., 2006.09. <P065492>

ZHAO Xiufeng; CHEUNG L. Y. Teresa; ZHANG Xitian; NG Hang Leung Dickon and YU Jiagu. "Facile Preparation of Strontium Tungstate and Tungsten Trioxide Hollow Spheres". *Communications of the American Ceramic Society* vol.89 pp.2960-2963. USA: The American Ceramic Society, 2006.09. <P069577>

ZHAO Xiufeng; LI Tsui Kiu; XI Yanyan; NG Hang Leung Dickon and YU Jiagu. "Synthesis of BaWO₄ Hollow Structures". *Crystal Growth & Design* vol.6 pp.2210-2213. USA: American Chemical Society, 2006.10.04. <P061244>

CHUNG Kam Chuen and NG Hang Leung Dickon. "Fabrication of Magnetic Iron-Hercynite Composites by Reaction Sintering". *Key Engineering Materials* vol.334-335 pp.309-312. Switzerland: Trans Tech Publications, 2007. <P071012>

CHEUNG L. Y. Teresa and NG Hang Leung Dickon. "Conversion of Bamboo to Biomorphic Composites Containing Silica and Silicon Carbide Nanowires". *Journal of the American Ceramic Society* vol.90 pp.559-564. USA: The American Ceramic Society, 2007.01. <P071659>

TO Ching Yuen; CHEUNG Lok Ying; LI Youfen; CHUNG Kam Chuen; ONG Hock Chun Daniel and NG Hang Leung Dickon. "Synthesis of Ultra Thin α -alumina Nanobelts from Aluminum Powder by Chemical Vapor Deposition". *Journal of the European Ceramic Society* vol.27 pp.2629-2634. England: Elsevier Ltd., 2007.01.24. <P076647>

LI Tsui Kiu and NG Hang Leung Dickon. "Formation of γ -LiAlO₂ Nano-network in an Al-based Metal Matrix Composite". *Materials Letters* vol.61 pp.1109-1113. Netherlands: Elsevier B.V., 2007.02. <P071264>

LI Tsui Kiu and NG Hang Leung Dickon. "Fabrication of Al-LiAlO₂ Metal Matrix Composites and Crystalline γ -LiAlO₂". *Materials Science and Engineering A* vol.445-446 pp.652-656. Netherlands: Elsevier B.V., 2007.02.15. <P072335>

YU J. G.; ZHAO X. F.; LIU S. W.; LI M.; MANN S. and NG Hang Leung Dickon. "Poly(methacrylic acid)-mediated Morphosynthesis of PbWO₄ Micro-crystals". *Applied Physics A* vol.87 pp.113-120. Germany: Springer, 2007.04. <P071789>

NG Hang Leung Dickon and HON Wan Man. "Effect of Boron Concentration on the Superconductive and Microstructural Properties of MgB₂/Mg Composites". *Physica C* vol.460-462 pp.783-784. Netherlands: Elsevier B. V., 2007.04.10. <P076207>

ONG Hock Chun Daniel (王福俊)

NI Weihai; AN Jin; LAI Chung Wing; ONG Hock Chun Daniel and XU Jianbin. "Emission Enhancement from Metallodielectric-Capped ZnO Films". *Journal of Applied Physics* vol.100 026103. USA: American Institute of Physics, 2006.07.15. <P064101>

J.B. Xu; K. Xue; H.Y. Guo; H.C. Ong and G.D. Hu. "Nanometric Investigation of Functional Oxides - from Electropassive to Electroactive Ultrathin Films". International Conference on Nanoscience and Technology 2006 Basel , NCCR Nanoscale Science, University of Basel, Switzerland, .. Switzerland, 2006.07.30. <P061845>

MEI Y. F.; FU R. K. Y.; SIU G. G.; WONG K. W.; CHU Paul K.; WANG Ranshi and ONG Hock Chun Daniel. "Nitrogen Binding Behavior in ZnO Films with Time-resolved Cathodoluminescence". *Applied Surface Science* vol.252 pp.8131-8134. Netherlands: Elsevier B.V., 2006.09.30. <P069411>

YU Jie; ZHENG Zhi; ONG Hock Chun Daniel; WONG King Young; MATSUMOTO S. and LAU Woon Ming Leo. "Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition". *Journal of Physical Chemistry B* vol.110 pp.21073-21076. USA: American Chemical Society, 2006.10.26. <P063279>

Jianbin Xu; H.C. Ong; X.F. Wang; K.C. Hui and W.H. Ni. "A Study of Nanocrystalline and Polycrystalline Zinc Oxides : Synthesis and Characterization". Sino-Swiss Science and Technology Cooperation Symposium 2006 ETH Zurich, Switzerland .. Zurich, Switzerland, 2006.10.30. <P060055>

LEI Danyuan and ONG Hock Chun Daniel. "Emission Mediated by Cross Coupling of Surface Plasmons from Metal/GaN and Metal/ZnO for the Fabrication of Top-emitting Light Emitting Diodes". *2006 MRS Fall Meeting* p.113.4. Boston, USA: Materials Research Society, 2006.11.30. <P061694>

TO Ching Yuen; CHEUNG Lok Ying; LI Youfen; CHUNG Kam Chuen; ONG Hock Chun Daniel and NG Hang Leung Dickon. "Synthesis of Ultra Thin α -alumina Nanobelts from Aluminum Powder by Chemical Vapor Deposition". *Journal of the European Ceramic Society* vol.27 pp.2629-2634. England: Elsevier Ltd., 2007.01.24. <P076647>

GU Q. L.; LING C. C.; CHEN X. D.; CHENG C. K.; NG A. M. C.; BELING C. D.; FUNG S.; DJURISIC A. B.; LU L. W.; BRAUER G. and ONG Hock Chun Daniel. "Hydrogen Peroxide Treatment Induced Rectifying Behavior of Au/n-ZnO Contact". *Applied Physics Letters* vol.90 122101 (3 pgs.). USA: American Institute of Physics, 2007.03.19. <P074831>

LEI, DANGYUAN; LI Jia and ONG Hock Chun Daniel. "UV Emission Mediated by Cross Coupling of Surface Plasmons from Metal-alloy/Semiconductor for the Fabrication of Top-emitting Light Emitting Diodes". *2007 EMRS Spring Meeting* pp.A-5 3. Strasbourg, France: European Materials Research Society, 2007.05.29. <P073685>

J.B. Xu and H.C. Ong. "Nanoscale Understanding of Photonic Materials". International Conference on Nanoscience and Technology, China 2007 , National Center for Nanoscience & Technology of China, p.83, 3I-003. Beijing, China, 2007.06.04. <P071643>

Jianbin Xu and H.C. Ong. "Investigation of Photonic Materials by Nanoscale Characterization". Proceedings of The OSA Topical Conference on Nanophotonics (NANO) Optical Society of America, Zhejiang University .. Hangzhou, China, 2007.06.18. <P074555>

PANG Kam Moon (彭金滿)

陳天機、彭金滿及王永雄.<地心論面臨挑戰>.《大學通識報》張燦輝、梁美儀.第2期,頁125-149.香港特別行政區:香港中文大學通識教育研究中心,2007.03.<P072455>

SUEN Wai Mo (孫緯武)

LIN L. M. and SUEN Wai Mo. "Non-linear r Modes in Neutron Stars: A Hydrodynamical Limitation on r -mode Amplitudes". *Monthly Notices of the Royal Astronomical Society* vol.370 pp.1295-1302. England: Blackwell Publishing, 2006.08.11. <P060618>

WAN Tsz Kai Jones (溫子佳)

WAN Tsz Kai Jones; DUFFY T. S.; SCANDOLO S. and CAR R.. "First-Principles Study of Molten MgSiO_3 in Earth's Lower Mantle". *Paper presented in the AGU Fall Meeting*. San Francisco, USA, 2006.12. <P065816>

WAN Tsz Kai Jones. "A Dynamical Approach for Liquid Crystal Simulations". *Paper presented in the APS March Meeting*. Denver, USA, 2007.03. <P078350>

WAN Tsz Kai Jones; DUFFY T. S.; SCANDOLO S. and CAR R.. "First-principles Study of Density, Viscosity, and Diffusion Coefficients of Liquid MgSiO_3 at Conditions of the Earth's Deep Mantle". *Journal of Geophysical Research* vol.112 B03208 (7 pgs.). USA: American Geophysical Union, 2007.03.28. <P072970>

WANG Jianfang (王建方)

KOU Xiaoshan; ZHANG Shuzhuo; TSUNG Chia Kuang; YEUNG Man Hau; SHI Q. H.; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "Growth of Gold Nanorods and Bipyramids Using CTEAB Surfactant". *Journal of Physical Chemistry B* vol.110 pp.16377-16383. USA: American Chemical Society, 2006.08.24. <P068627>

TSUNG C. K.; HONG W. B.; SHI Q. H.; KOU Xiaoshan; YEUNG Man Hau; WANG Jianfang and STUCKY G. D.. "Shape- and Orientation-controlled Gold Nanoparticles Formed within Mesoporous Silica Nanofibers". *Advanced Functional Materials* vol.16 pp.2225-2230. Germany: WILEY-VCH Verlag GmbH & Co., 2006.11.03. <P064754>

ZHANG Shuzhuo; KOU Xiaoshan; YANG Zhi; SHI Q. H.; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "Nanonecklaces Assembled from Gold Rods, Spheres, and Bipyramids". *Chemical Communications* pp.1816-1818. England: The Royal Society of Chemistry, 2007.02. <P070095>

KOU Xiaoshan; ZHANG Shuzhuo; TSUNG Chia Kuang; YANG Zhi; YEUNG Man Hau; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "One-step Synthesis of Large-aspect-ratio Single-crystalline Gold Nanorods by using CTPAB and CTBAB Surfactants". *Chemistry - A European Journal* vol.13 pp.2929-2936. Germany: WILEY-VCH Verlag GmbH & Co., 2007.03.26. <P073597>

KOU Xiaoshan; ZHANG Shuzhuo; YANG Zhi; TSUNG C. K.; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "Glutathione- and Cysteine-induced Transverse Overgrowth on Gold Nanorods". *Journal of the American Chemical Society* vol.129 pp.6402-6404. USA: American Chemical Society, 2007.05.23. <P079769>

WONG Hong Kuen (黃康權)

HAO J. H.; GAO J. and WONG Hong Kuen. "Laser Molecular Beam Epitaxy Growth and Properties of SrTiO_3 Thin Films for Microelectronic Applications". *Thin Solid Films* vol.515 pp.559-562. Netherlands: Elsevier B.V., 2006.10.25. <P065936>

WONG Ka Wai (黃家偉)

CHOW Hak Fun; ZHANG Jie; LO Chui-man; CHEUNG Siu-yin and WONG Ka Wai. "Improving the Gelation Properties of 3,5-Diaminobenzoate-Based Organogelators in Aromatic Solvents with Additional Aromatic-Containing Pendants". *Tetrahedron* vol.63 no.2, pp.363-373. Oxford, United Kingdom: Elsevier Ltd., 2007.01.08. <P075228>

WONG Ka Wai; SIN Mandy Lai Yi; YEUNG Mei Ki; HARK Sui Kong and LAU Woon Ming Leo. "Molecular Interfacial Engineering of Adhesion between Polyfluorene and Indium-tin Oxide". *Applied Physics A* vol.87 pp.23-26. USA: Springer-Verlag, 2007.04. <P078815>

ZHENG Zhi; WONG Ka Wai; LAU Wai Cheung; KWOK Wai Man Raymond and LAU Woon Ming Leo. "Unusual Kinematics-driven Chemistry: Cleaving C-H but Not COO-H Bonds with Hyperthermal Protons to Synthesize Tailor-Made Molecular Films". *Chemistry - A European Journal* vol.13 pp.3187-3192. Germany: WILEY-VCH Verlag GmbH & Co., 2007.04.05. <P075867>

WONG King Young (黃景揚)

WONG King Young and TO Chi Wing. "Studies of Reorientational Mobility of Chromophores in Poled Nonlinear Optical Polymers by Secondary Poling". Paper presented in the SPIE Optics and Photonics 2006, organized by Society of Photo-Optical Instrumentation Engineers, 10 pgs. United States of America, 2006.08. <P065586>

TO Chi Wing and WONG King Young. "Comparative Studies of Molecular Reorientations in Thermal-assisted and Photo-assisted Electric-field Poled Nonlinear Optical Polymers". *Journal of Applied Physics* vol.100 073505. American Institute of Physics, 2006.10.01. <P060559>

YU Jie; ZHENG Zhi; ONG Hock Chun Daniel; WONG King Young; MATSUMOTO S. and LAU Woon Ming Leo. "Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition". *Journal of Physical Chemistry B* vol.110 pp.21073-21076. USA: American Chemical Society, 2006.10.26. <P063279>

WANG Xuejin and WONG King Young. "Effects of a Base Coating Used for Electropolymerization of Poly(3,4-ethylenedioxythiophene) on Indium Tin Oxide Electrode". *Thin Solid Films* vol.515 no.4, pp.1573. Elsevier Sciences B.V., 2006.12. <P065889>

DENG Xianyu; WONG King Young and MO Yueqi. "Three-color Polymeric Light-emitting Devices Using Selective Photo-oxidation of Multilayered Conjugated Polymers". *Applied Physics Letters* vol.90 063505. United States of America: American Institute of Physics, 2007.02.05. <P072920>

YE Chao; WONG King Young; HE Yaning and WANG Xiaogong. "Distributed Feedback Sol-gel Zirconia Waveguide Lasers Based on Surface Relief Gratings". *Optics Express* vol.15 p.936. USA: Optical Society of America, 2007.02.05. <P079797>

WANG Jun and WONG King Young. "Polarization Characteristics of a Light-emitting Polymer Microring Laser". *Applied Physics B- Lasers and Optics* vol.87 p.685. Germany: Springer Berlin / Heidelberg, 2007.06. <P075850>

WONG Wing Hung (王永雄)

LAI Hon Ming; CHAN Siu Wai and WONG Wing Hung. "Nonspecular Effects on Reflection from Absorbing Media at and around Brewster's Dip". *Journal of the Optical Society of America A* vol.23 pp.3208-3216. Optical Society of America, 2006.12.24. <P064565>

王永雄. < 勇敢，在上帝說話與不說話之間>. 《時代論壇》 第 1008 期, 10. 香港特別行政區, 2006.12.26. <P064014>

陳天機、彭金滿及王永雄.<地心論面臨挑戰>.《大學通識報》張燦輝、梁美儀.第 2 期, 頁 125-149. 香港特別行政區: 香港中文大學通識教育研究中心, 2007.03. <P072455>

XIA Keqing (夏克青)

SUN Chao; ZHOU Quan and XIA Keqing. "Cascades of Velocity and Temperature Fluctuations in Buoyancy-Driven Thermal Turbulence". *Physical Review Letters* vol.97 144504 (4 pgs.). USA: The American Physical Society, 2006.10.06. <P069307>

XIA Keqing and REN Liyuan. "Heat Flux and Local Temperature Measurements in Extremely Small Aspect Ratio Turbulent Rayleigh-Bénard Convection". *Bulletin of the American Physical Society: Program of the 59th Annual Meeting of the APS Division of Fluid Dynamics* vol.51 p.93. USA: American Physical Society, 2006.11. <P060124>

SUN Chao and XIA Keqing. "Why is There Dispersion in the Measured Scaling Exponent of the Reynolds Number in Turbulent Rayleigh-Bénard Convection?". *Bulletin of the American Physical Society: Program of the 59th Annual Meeting of the APS Division of Fluid Dynamics* vol.51 p.39. USA: American Physical Society, 2006.11. <P062988>

XI Hengdong and XIA Keqing. "Reversals of the Large-scale Circulation in Turbulent Thermal Convection in Small Aspect-ratio Geometry". *Bulletin of the American Physical Society: Program of the 59th Annual Meeting of the APS Division of Fluid Dynamics* vol.51 p.170. USA: American Physical Society, 2006.11. <P063728>

ZHOU Quan; SUN Chao and XIA Keqing. "Morphological Evolution of Thermal Plumes in Turbulent Convection". *Bulletin of the American Physical Society: Program of the 59th Annual Meeting of the APS Division of Fluid Dynamics* vol.51 p.38. USA, 2006.11. <P069157>

SUN Chao and XIA Keqing. "Multi-point Local Temperature Measurements inside the Conducting Plates in Turbulent Thermal Convection". *Journal of Fluid Mechanics* vol.570 pp.479-489. United Kingdom: Cambridge University Press, 2007.01. <P078203>

ZHOU Quan; SUN Chao and XIA Keqing. "Morphological Evolution of Thermal Plumes in Turbulent Rayleigh-Bénard Convection". *Physical Review Letters* vol.98 074501 (4 pgs.). USA: The American Physical Society, 2007.02.16. <P074814>

ZHOU Shengqi; SUN Chao and XIA Keqing. "Measured Oscillations of the Velocity and Temperature Fields in Turbulent Rayleigh-Bénard Convection in a Rectangular Cell". *Paper presented in the March Meeting of the American Physical Society*. Denver, USA, 2007.03. <P075740>

HE Xiaozhou; TONG Peng and XIA Keqing. "Measured Thermal Dissipation Field in Turbulent Rayleigh-Bénard Convection". *Physical Review Letters* vol.98 144501 (4 pgs.). USA: The American Physical Society, 2007.04.06. <P079886>

XI Hengdong and XIA Keqing. "Cessations and Reversals of the Large-scale Circulation in Turbulent Thermal Convection". *Physical Review E* vol.75 066307 (5 pgs.). USA: The American Physical Society, 2007.06.08. <P072974>

XIAO Xudong (肖旭東)

ZHANG X. Q.; HE W.; ZHAO A. D.; LI H. N.; CHEN L.; PAI W. W.; HOU J. G.; LOY M. M. T.; YANG J. L. and XIAO Xudong. "On the Geometric and Electronic Structure of C₆₀ Monolayer on Ag(100)". *Physical Review B* vol.75 235444 (8 pgs.). USA: The American Physical Society, 2007.06.26. <P075488>

YEUNG Man Hau (楊文孝)

KOU Xiaoshan; ZHANG Shuzhuo; TSUNG Chia Kuang; YEUNG Man Hau; SHI Q. H.; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "Growth of Gold Nanorods and Bipyramids Using CTEAB Surfactant". *Journal of Physical Chemistry B* vol.110 pp.16377-16383. USA: American Chemical Society, 2006.08.24. <P068627>

TSUNG C. K.; HONG W. B.; SHI Q. H.; KOU Xiaoshan; YEUNG Man Hau; WANG Jianfang and STUCKY G. D.. "Shape- and Orientation-controlled Gold Nanoparticles Formed within Mesoporous Silica Nanofibers". *Advanced Functional Materials* vol.16 pp.2225-2230. Germany: WILEY-VCH Verlag GmbH & Co., 2006.11.03. <P064754>

KOU Xiaoshan; ZHANG Shuzhuo; TSUNG Chia Kuang; YANG Zhi; YEUNG Man Hau; STUCKY G. D.; SUN L. D.; WANG Jianfang and YAN C. H.. "One-step Synthesis of Large-aspect-ratio Single-crystalline Gold Nanorods by using CTPAB and CTBAB Surfactants". *Chemistry - A European Journal* vol.13 pp.2929-2936. Germany: WILEY-VCH Verlag GmbH & Co., 2007.03.26. <P073597>

YU Kin Wah (余建華)

余建華. <非線性、塗層和動態電流變效應>. 《北京大學物理學叢書—軟物質物理學導論》 陸坤權等編. 頁 551-574. 中國北京: 北京大學出版社, 2006.07. <P061890>

XIAO Junjun; YAKUBO K. and YU Kin Wah. "Coupled Plasmon Modes and Their Localization in Graded Plasmonic Chains". Paper presented in the 7th International Conference on the Electrical, Transport and Optical Properties of Inhomogeneous Media, 2006.7.9-14. Sydney, Australia, 2006.07. <P062570>

XIAO Junjun; YAKUBO K. and YU Kin Wah. "Confined Vibrational Normal Modes in Graded Elastic Networks: Gradons". Paper presented in the 7th International Conference on the Electrical, Transport and Optical Properties of Inhomogeneous Media, 2006.7.9-14. Sydney, Australia, 2006.07. <P064643>

CHOY Chun Wing; XIAO Junjun and YU Kin Wah. "Local Field Distribution Near Corrugated Interfaces: Green Function Formalism Versus Effective Medium Theory". Paper presented in the 7th International Conference on the Electrical, Transport and Optical Properties of Inhomogeneous Media, 2006.7.9-14. Sydney, Australia, 2006.07. <P065528>

HUANG J. P. and YU Kin Wah. "Enhanced Nonlinear Optical Responses of Materials: Composite Effects". *Physics Reports* vol.431 pp.87-172. Netherlands: Elsevier B.V., 2006.08. <P069926>

TIAN W. J.; HUANG J. P. and YU Kin Wah. "Theory of Nonlinear ac Susceptibilities of Dynamic Electrorheological Fluids under a dc Electric Field". *Chemical Physics Letters* vol.427 pp.101-106. Netherlands: Elsevier B.V., 2006.08.18. <P069324>

YAKUBO K.; XIAO Junjun and YU Kin Wah. "Gradon Excitations in Two-dimensional Graded Lattices (2次元傾斜格子系におけるグレイドン励起)". *Paper presented in the 2006 Autumn Meeting of The Physical Society of Japan*, 2006.9.23-26. Chiba University, Japan, 2006.09. <P060942>

YU Kin Wah and XIAO Junjun. "Optical Properties of Noble-metallic Nanoparticle Chains Embedded in a Graded-index Host". *Paper presented in the Conference on Photon 06*, 2006.9.4-7. Manchester, United Kingdom, 2006.09. <P066322>

HUANG J. P. and YU Kin Wah. *New Nonlinear Optical Materials: Theoretical Research*. ISBN-13: 978-1600214004 241 pages. New York, USA: Nova Science Publishers, Inc., 2006.09. <P073990>

- XU B.; HUANG J. P. and YU Kin Wah. "Theory of Nonlinear ac Responses of Inhomogeneous Two-component Composite Films". *Physics Letters A* vol.357 pp.475-478. Netherlands: Elsevier B.V., 2006.09.25. <P061294>
- YU Kin Wah. "Dynamic Electrorheological Effects in Rotating Particles: A Brief Review". *Plenary paper presented in the 5th National Conference on Liquids and Soft Matter*, 2006.11.9-10. Guangzhou, China, 2006.11. <P062561>
- YU Kin Wah. "Graded Materials Here, There and Everywhere". *Paper presented in the 14th National Conference on Condensed Matter Theory and Statistical Physics*, 2006.11.11-14. Guangzhou, China, 2006.11. <P065445>
- XIAO Junjun; YAKUBO K. and YU Kin Wah. "Dispersion and Transitions of Dipolar Plasmon Modes in Graded Plasmonic Waveguides". *Applied Physics Letters* vol.89 221503 (3 pgs.). United States of America: American Institute of Physics, 2006.11.27. <P068256>
- FAN C. Z.; HUANG J. P. and YU Kin Wah. "Dielectrophoresis of an Inhomogeneous Colloidal Particle under an Inhomogeneous Field: A First-Principles Approach". *Journal of Physical Chemistry B* vol.110 pp.25665-25670. USA: American Chemical Society, 2006.11.30. <P064048>
- XIAO Junjun; YAKUBO K. and YU Kin Wah. "Global Phase Diagram of One-dimensional Graded Diatomic Elastic Chains: A Diagrammatic Approach to Identifying Vibrational Normal Modes". *Journal of Physics: Condensed Matter* vol.19 026224 (10 pgs.). United Kingdom: IOP Publishing Ltd, 2007.01.17. <P073058>
- XIAO Junjun; YAKUBO K. and YU Kin Wah. "Variety of Normal Modes and Their Transition Behaviors in Graded Elastic Networks: Square Networks with a Diagonal Gradient". *Journal of the Physical Society of Japan* vol.76 024602 (4 pgs.). Japan: The Physical Society of Japan, 2007.02. <P077032>
- CHOY Chun Wing; XIAO Junjun and YU Kin Wah. "Electrostatic Resonances and Optical Responses of Cylindrical Clusters". *Paper presented in the March Meeting of the American Physical Society*, 2007.3.5-9. Denver, USA, 2007.03. <P074594>
- YAKUBO K.; XIAO Junjun and YU Kin Wah. "Variety of Localization Transitions in Graded Diatomic Lattices (傾斜二原子格子系における多彩な局在振動モード)". *Paper presented in the 2007 Spring Meeting of The Physical Society of Japan*, 2007.3.18-21. Kagoshima University, Japan, 2007.03. <P075146>
- CHOY Chun Wing; XIAO Junjun and YU Kin Wah. "Electrostatic Resonances and Optical Responses of Cylindrical Clusters". *Paper presented in the Electrostatics 2007 Conference*, 2007.3.25-29. Oxford, United Kingdom, 2007.03. <P078107>
- XIAO Junjun; KWOK Tsun Ah Joseph and YU Kin Wah. "Optical Properties of Graded Colloidal Nanocrystallines with Tunable Structure". *Optics Communications* vol.272 pp.252-256. Netherlands: Elsevier B.V., 2007.04.01. <P078042>
- TIAN W. J.; NAKAYAMA T.; HUANG J. P. and YU Kin Wah. "Scaling Behaviours in Settling Process of Fractal Aggregates in Water". *Europhysics Letters* vol.78 46001 (5 pgs.). France: EDP Sciences, 2007.05. <P072407>
- CHOY Chun Wing; XIAO Junjun and YU Kin Wah. "Local Field Distribution Near Corrugated Interfaces: Green Function Formalism Versus Effective Medium Theory". *Physica B* vol.394 pp.325-329. Netherlands: Elsevier B.V., 2007.05.15. <P074684>
- XIAO Junjun; YAKUBO K. and YU Kin Wah. "Coupled Plasmon Modes and Their Localization in Graded Plasmonic Chains". *Physica B* vol.394 pp.208-212. Netherlands: Elsevier B.V., 2007.05.15. <P076783>
- YAKUBO K.; XIAO Junjun and YU Kin Wah. "Confined Vibrational Normal Modes in Graded Elastic Networks: Gradons". *Physica B* vol.394 pp.262-266. Netherlands: Elsevier B.V., 2007.05.15. <P079584>
- ZHANG Xitian (張喜田)**
- ZHANG Xitian; LIU Zhuang; WONG Ching Chi and HARK Sui Kong. "Synthesis and Optical Properties of Single Crystalline GaN Nanorods with a Rectangular Cross-section". *Solid State Communications* vol.139 pp.387-390. Netherlands: Elsevier B.V., 2006.08. <P069971>
- ZHAO Xiufeng; CHEUNG L. Y. Teresa; ZHANG Xitian; NG Hang Leung Dickon and YU Jiaguo. "Facile Preparation of Strontium Tungstate and Tungsten Trioxide Hollow Spheres". *Communications of the American Ceramic Society* vol.89 pp.2960-2963. USA: The American Ceramic Society, 2006.09. <P069577>
- ZHANG Xitian; LIU Zhuang; ZHENG Zhi and HARK Sui Kong. "Synthesis and Photoluminescent Properties of Well-aligned, Homogeneous SiOxNy Nanowire Bundles". 第一屆摻雜納米材料發光性質學術會議 p.17. 海南, 中國, 2006.11. <P061686>

LIANG Y.; ZHANG Xitian; QIN L.; ZHANG E.; GAO H. and ZHANG Z. G.. "Ga-assisted Synthesis and Optical Properties of ZnO Submicron- and Nanotowers". *Journal of Physical Chemistry B* vol.110 pp.21593-21595. USA: American Chemical Society, 2006.11.02. <P060417>

HONG Liang; LIU Zhuang; ZHANG Xitian and HARK Sui Kong. "Self-catalytic Growth of Single-phase AlGaN Alloy Nanowires by Chemical Vapor Deposition". *Applied Physics Letters* vol.89 193105 (3 pgs.). USA: American Institute of Physics, 2006.11.06. <P062863>

SHAN Chongxin; LIU Zhuang; ZHANG Xitian; WONG C. C. and HARK Sui Kong. "Wurtzite ZnSe Nanowires: Growth, Photoluminescence, and Single-wire Raman Properties". *Nanotechnology* vol.17 pp.5561-5564. United Kingdom: IOP Publishing Ltd, 2006.11.28. <P065735>

GAO H.; ZHANG Xitian; ZHOU M. Y.; ZHANG E. and ZHANG Z. G.. "Super-uniform ZnO Nanohelices Synthesized Via Thermal Evaporation". *Solid State Communications* vol.140 pp.455-458. USA: Elsevier Ltd, 2006.12. <P068445>

GAO H.; ZHANG Xitian; ZHOU M. Y.; ZHANG Z. G. and WANG X. Z.. "Growth of Novel ZnO Nanohelices Modified by SiO₂-sheathed ZnO Discs". *Nanotechnology* vol.18 065601 (4 pgs.). England: IOP Publishing Ltd, 2007.02.14. <P075021>

XU Haiyang; LIU Zhuang; ZHANG Xitian and HARK Sui Kong. "Synthesis and Optical Properties of InN Nanowires and Nanotubes". *Applied Physics Letters* vol.90 113105 (3 pgs.). USA: American Institute of Physics, 2007.03.12. <P073618>

ZHANG Xitian; LIU Zhuang; WONG Ching Chi; HARK Sui Kong; KE Ning and WONG Sai Peng Joseph. "Fabrication and Optical Properties of Erbium-doped Silicon-rich Silicon Oxide Nanofibers". *Journal of Physical Chemistry C* vol.111 pp.4083-4086. USA: American Chemical Society, 2007.03.22. <P074535>

ZHANG Xitian; LIU Zhuang; ZHENG Zhi; HARK Sui Kong; FU Y. B. and ZHANG G. B.. "Synthesis and Photoluminescence Properties of Well-aligned Ga-doped N-rich SiO_xN_y Nanowire Bundles". *Applied Physics Letters* no.90, 183110 (3 pgs.). USA: The American Institute of Physics, 2007.04.30. <P070508>

ZHOU Shengqi (周生啓)

ZHOU Shengqi and AHLERS G.. "Spatio-temporal Chaos in Electro-convection of a Homeotropically Aligned Nematic Liquid Crystal". *Paper presented in the Fall Meeting of the Chinese Physical Society*. Beijing, China, 2006.09. <P069408>

ZHOU Shengqi and AHLERS G.. "Onset of Electro-convection of Homeotropically Aligned Nematic Liquid Crystals". *Paper presented in the 5th Annual Meeting of Complex Fluid and Soft Matter of the Chinese Physical Society*. Guangzhou, China, 2006.11. <P065695>

ZHOU Shengqi; SUN Chao and XIA Keqing. "Measured Oscillations of the Velocity and Temperature Fields in Turbulent Rayleigh-Bénard Convection in a Rectangular Cell". *Paper presented in the March Meeting of the American Physical Society*. Denver, USA, 2007.03. <P075740>

ZHOU Shengqi and AHLERS G.. "Pattern Formation Electro-convection of Homeotropically Aligned Nematic Liquid Crystals". *Paper presented in the 3rd China-Singapore Joint Symposium on Research Frontiers in Physics*. Xiamen, China, 2007.05. <P076122>