

Complete List of Publications (as of May, 2012)

Refereed Journal Articles (in reversed chronological order) :

- (112) H. Y. Chung, **P. T. Leung**, and D. P. Tsai, "Equivalence between the mechanical model and energy-transfer theory for the classical decay rates of molecules near a spherical particle" **J. Chem. Phys.** **136**, 184106 (2012).
- (111) C. W. Chen, H.-P. Chiang, D. P. Tsai, and **P. T. Leung**, "Temperature dependence of the surface-plasmon-induced Goos-Hanchen shifts" **Appl. Phys. B** **107**, 111-118 (2012).
- (110) H. Y. Chung, **P. T. Leung**, and D. P. Tsai, "An effective medium approach to the dynamic optical response of a graded index plasmonic nanoparticle" **J. Opt. Soc. Am. B** **29**, 970-976 (2012).
- (109) H. Y. Chung, **P. T. Leung**, D. P. Tsai, "Fluorescence characteristics of a molecule in the vicinity of a plasmonic nanomatryoska: nonlocal optical effects" **Opt. Commun.** **285**, 2207-2211 (2012).
- (108) H. Y. Chung, **P. T. Leung**, and D. P. Tsai, "Modified long wavelength approximation for the optical response of a graded index plasmonic nanoparticle" **Plasmonics** **7**, 13-18 (2012).
- (107) C. W. Chen, Y. W. Gu, H.-P. Chiang, E. J. Sanchez, and **P. T. Leung**, "Goos-Hanchenshift at an interface of a composite material: effects of particulate clustering" **Appl. Phys. B** **104**, 647-652 (2011).
- (106) H. Y. Chung, G. Y. Guo, H. P. Chiang, D. P. Tsai, and **P. T. Leung**, "Accurate description of the optical response of a multilayered spherical system in the long wavelength approximation" **Phys. Rev. B** **82**, 165440 (2010).
- (105) H. Y. Chung, **P. T. Leung**, and D. P. Tsai, "Enhanced intermolecular energy transfer in the vicinity of a plasmonic nanorice" **Plasmonics** **5**, 363-368 (2010).
- (104) C. W. Chen, H. Y. Chung, H. -P. Chiang, J. Y. Lu, R. Chang, D. P. Tsai, and **P. T. Leung**, "Nonlocality and particle-clustering effects on the optical response of composite materials with metallic nanoparticles" **Appl. Phys. A** **101**, 191 (2010).
- (103) C. W. Chen, L. S. Liao, H. P. Chiang, and **P. T. Leung**, "Temperature effects on the polarizability of mesoscopic metallic nanoparticles" **Appl. Phys. B** **99**, 223 (2010).
- (102) **P. T. Leung** and K. Young, "Gauge invariance and reciprocity in quantum mechanics" **Phys. Rev. A** **81**, 032107 (2010).

- (101) H. Y. Xie, **P. T. Leung**, and D. P. Tsai, “ Reciprocity theorem for nonlocal optics: completion of proof and application to spectroscopic analysis ” **J. Opt. A** **12**, 035006 (2010).
- (100) H. Y. Xie, H. Y. Chung, **P. T. Leung**, and D. P. Tsai, “ Plasmonic enhancement of Forster energy transfer at a metallic nanoparticle: nonlocal optical effects ” **Phys. Rev. B** **80**, 155448 (2009).
- (99) H. Y. Chung, H. Y. Xie, **P. T. Leung**, and D. P. Tsai, “ Optical properties of metallic nanoshell composites: effects of temperature and particle-clustering ” **Solid State Commun.** **149**, 2151-2154 (2009).
- (98) H. Y. Chung, **P. T. Leung**, and D. P. Tsai, “ Dynamic modifications of polarizability for large metallic spheroidal nanoshells ” **J. Chem. Phys.** **131**, 124122 (2009).
- (97) H. Y. Xie, **P. T. Leung**, and D. P. Tsai, “ Clarification and extension of the optical reciprocity theorem ” **J. Math. Phys.** **50**, 072901 (2009).
- (96) H. Y. Xie, **P. T. Leung**, and D. P. Tsai, “ Molecular decay rates and emission frequencies in the vicinity of an anisotropic metamaterial ” **Solid State Commun.** **149**, 625-629 (2009).
- (95) J. H. Huang, R. Chang, **P. T. Leung** and D. P. Tsai, “ Nonlinear dispersion relation for surface plasmon at a metal-Kerr medium interface ” **Opt Commun.** **282**, 1412-1415 (2009).
- (94) **P. T. Leung** and G. J. Ni, " Reply to comment on 'A note on the formulation of the Maxwell equations for a macroscopic medium'" **Eur. J. Phys.** **30**, L17-L18 (2009).
- (93) H. Y. Xie, **P. T. Leung** and D. P. Tsai, “ General proof of optical reciprocity for nonlocal electrodynamics ” **J. Phys. A.** **42**, 045402 (2009).
- (92) H. Y. Xie, **P. T. Leung**, and D. P. Tsai, “ General validity of reciprocity in quantum mechanics ” **Phys. Rev. A** **78**, 064101 (2008).
- (91) C. W. Chen, H.-P. Chiang, **P. T. Leung**, and D. P. Tsai, “ Temperature dependence of enhanced optical absorption and Raman spectroscopy from metallic nanoparticles” **Solid State Commun.** **148**, 413-416 (2008).
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- (85) Z. E. Goude and **P. T. Leung**, "Surface Enhanced Raman Scattering from Metallic Nanoshells with Nonlocal Dielectric Response" **Solid State Commun** **143**, 416-420 (2007).
- (84) C. W. Chen, C. H. Lin, H. P. Chiang, Y. -C. Liu, **P. T. Leung** and W. S. Tse, "Temperature Dependence of the Sensitivity of a Long-Range Surface Plasmon Optical Sensor" **Appl. Phys A** **89**, 377-380 (2007).
- (83) C.-W. Chen, W.-C. Lin, L.-S. Liao, Z.-H. Lin, H.-P. Chiang, **P. T. Leung**, E. Sijercic and W. S. Tse, "Optical Temperature Sensing Based on the Goos-Hanchen Effect" **Appl. Optics** **46**, 5347-5351 (2007).
- (82) **P. T. Leung**, Z. W. Chen and H. P. Chiang, "Large negative Goos Hanchen shift at metal surfaces" **Opt. Commun.** **276**, 206-208 (2007).
- (81) J. Vielma and **P. T. Leung**, "Nonlocal optical effects on the fluorescence and decay rates for admolecules at a metallic nanoparticle" **J. Chem. Phys.** **126**, 194704 (2007).
- (80) H.-P. Chiang, Z. W. Chen, J. J. Wu, H. L. Li, T. Y. Lin, E. J. Sánchez and **P. T. Leung**, "Effects of temperature on the surface plasmon resonance at the metal-semiconductor interface of a Schottky barrier" **Thin Solid Films** **515**, 6953-6961 (2007).
- (79) H. Sinky and **P. T. Leung**, "Relativistic corrections to a generalized sum rule" **Phys. Rev. A** **74**, 034703 (2006).
- (78) **P. T. Leung** and G. J. Ni, "On the singularities of the electrostatic and magnetostatic dipole fields" **Eur. J. Phys.** **27**, N1-N3 (2006).
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- (74) H. P. Chiang, J. L. Lin, R. Chang, S. Y. Su and **P. T. Leung**, "High resolution angular measurement using surface-plasmon-resonance via phase interrogation at optimal incident wavelengths" **Opt. Lett.** **30**, 2727-2729 (2005).

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