Publications

A. Journal Paper


134. Jheng-Syong Wu, Chien Chou,* Chi-Hui Chang, Li-Ping Yu, Li-Dek Chou, Hsiu-Fong Chang, Hon-Fai Yau, and Cheng-Chung Lee, “Zeeman laser scanning confocal microscope and its ability on


140. Mei-Ling Lo, Tsung-Hsun Yang, and Cheng-Chung Lee*, “Fabrication of a tunable daylight simulator”, Appl. Opt. 50, C95-C99 (2011) (This paper has been selected by the Editors, Andrew Dunn and Anthony Durkin, for publication in the most recent issue of the Virtual Journal for Biomedical Optics (VJBO). http://vjbo.osa.org/virtual_issue.cfm)


147. Bo-Huei Liao and Cheng-Chung Lee*, “Antireflection coatings for deep ultraviolet optics deposited by magnetron sputtering from Al targets”, Optics Express, 19, 7507-7512 (2011)


149. Kai Wu, Cheng-Chung Lee*, Neal J. Brock and Brad Kimbrough, “Multilayer Thin Film Inspection


168. Mei-Ling Lo; Wen-Hsin Li; Shao-Ze Tseng; Sheng-Hui Chen; Chia-Hua Chan; Cheng-Chung Lee*, "Replica of the structural color for Papilio blumei butterfly", J. Nanophoton. 7 (1), 073597 (March 11, 2013) (Special reports on thin films- SPIE Professional July 2013-http://spie.org/x95065.xml)


201. Ya-Chen Chang, Hung-Sen Wei, Chien-Cheng Kuo, Wei-Bo Liao, Sing-Rong Huang and Cheng-Chung Lee, 2016, “High transmittance superhydrophilic thin film with superior mechanical
208. Meng-Chi Li, Ying-Feng Chang, Huai-Yi Wang, Yu-Xen Lin, Chien-Cheng Kuo, Ja-an Annie Ho2, Cheng-Chung Lee* & Li-Chen Su*, 2017, “An innovative application of timedomain spectroscopy on localized surface plasmon resonance sensing”, Scientific Reports | 7:44555 | DOI: 10.1038/srep44555

215.

● B. Conference Paper


17. J. C. Hsu, and C. C. Lee, “Morphology of Ta_2O_5 Deposited by Ion Beam and Dual Ion Beam sputter Deposition and profiled with AFM”, Photonics/Taiwan ’96, Dec, (1996), Hsinchu, Taiwan, pp.28-30.


59. C. C. Lee, “The Novel Coating Technology for Optical Thin Films”, Taiwan Association for Coatings
and Thin Films Technology (TACT), Kuan Shan University, Tainan, Taiwan, August 31, (2002).


Heater with Ion-assisted at Room Temperature”, CLEO/PR, (2003).


88. J. H. Lee, M. C. Liu and C. C. Lee, “Microstructure and optical property in DUV of SiO2 thin film deposited by electron beam gun”, Optics and Photonics Taiwan ’04, Chung-Li, Taiwan, E-SA-V 2-1,


91. J. Y. Wu and C. C. Lee, “Optical properties of SiO₂ deposited by dual ion beams from Si and SiO₂ targets”, Optics and Photonics Taiwan '04, Chung-Li, Taiwan, E-SU-VI 8-5, Dec. 18-19, (2004).


96. Ming-Chung Liu, C. C. Lee, Bo-Huei Liao, Masaaki Kaneko, Kazuhide Nakahira, Yuuichi Takano, “MgF₂ antireflection coatings deposited at 193nm by resistive heating boat”, Optics and Photonics Taiwan '04, Chung-Li, Taiwan, PE-SA2-05, Dec. 18-19, (2004).


influence of temperature and ion beam on the microstructure and optical property of MgF$_2$”, Optics and Photonics Taiwan ’05, Tainan, Taiwan, PE-SA1-034, Dec. 9-10, (2005).


124. Ming-Chung Liu, C. C. Lee, Bo-Huei Liao, Masaaki Kaneko, Kazuhide Nakahira, Yuuichi Takano, “Research of MgF$_2$ deposition for 193nm application by resistive heating boat with ion assisted deposition”, Optics and Photonics Taiwan ’05, Tainan, Taiwan, PE-SA1-076, Dec. 9-10, (2005).


127. J. C. Wu, C. J. Tang, J. Y. Wu and C. C. Lee, “Optical properties of Nb$_2$O$_5$·Ta$_2$O$_5$·TiO$_2$ films deposited by RF IBSD”, Optics and Photonics Taiwan ’05, Tainan, Taiwan, PE-SA1-087, Dec. 9-10, (2005).


164. Ming-Chung Liu, C. C. Lee, M. Kaneko, K. Nakahira and Y. Takano, “Fluoride antireflection coatings at 193nm by resistive heating boat”, Optical Interference Coatings Topical Meeting, FA7, Tucson,


Refractive Index Model”, Thin-Film Coatings for Optical Applications IV, SPIE Paper 6674-4, San
182. C. C. Lee, “The trend of optical thin film coating”, Japan Vacuum Show, Tokoy Big Sight, Japan,
183. C. C. Lee, “The trend of optical thin film coating”, Japan Vacuum Show, TOKYO BIG SIGHT, JAPAN,
184. C. C. Lee, “5th Workshop on Fibres and Optical Passive Components”, National Taiwan University,
Taiwan, Dec. 5-7, (2007).
185. C. C. Lee, “Novel filters design and fabrication for optical communication”, International
Workshop on Applied Optics & Nanophotonics, Nov. 30-Dec.01, 2007, Taichung, Taiwan. (Invited talk)
Optics and Photonics Taiwan ’07, Taichung, Taiwan, EO-001, Nov. 30-Dec. 1, (2007).
birefringence by using phase shift interferometer”, Optics and Photonics Taiwan ’07, Taichung,
Taiwan, EO-008, Nov. 30-Dec. 1, (2007).
property of thin Ti film”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, EO-015, Nov. 30-Dec. 1,
(2007).
and Photonics Taiwan ’07, Taichung, Taiwan, EO-022, Nov. 30-Dec. 1, (2007).
sputtering”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, EO-024, Nov. 30-Dec. 1, (2007).
Optics and Photonics Taiwan ’07, Taichung, Taiwan, EO-041, Nov. 30-Dec. 1, (2007).
reactive gases”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, EO-047, Nov. 30-Dec. 1, (2007).
193. C. C. Lee, Jia-Chereng Hsu, “Eliminating Spherical Aberrations by Gradient-Indexed Lenses”, Optics
and Photonics Taiwan ’07, Taichung, Taiwan, EO-063, Nov. 30-Dec. 1, (2007).
deposition technique: for the research of the absorption effect in the amorphous and microcrystal
silicon film”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, IO-002, Nov. 30-Dec. 1, (2007).
deposited by RF magnetron sputtering”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, IO-007,
gap of Si film deposited by PVD”, Optics and Photonics Taiwan ’07, Taichung, Taiwan, IO-008, Nov.


225. C. C. Lee and S. H. Chen, “The research of optical thin film in Thin Film Technology Center, NCU, Taiwan”, 2008 Japan Taiwan Bilateral Science & Technology Symposium on Frontiers in
Functional Optics, 11-12, Nov. 2008, Utsunomiya, Japan. (Invited talk)


San Jose, 7205-4, Jan. 24-29, (2009).


249. Ssu-Hsiang Peng, Meng-Chi Li, Chin-Jang Liu, Chi-Li Yeh, Chien-Cheng Kuo, and Cheng-Chung Lee, “Deposition of low resistivity GZO films at room temperature”, Optics and Photonics Taiwan '09, EO-106, National Taiwan Normal University, Taipei, Taiwan. Dec. 11-12, (2009).


253. I-Ting Shih, Kwang-Yao Chai, Te-Hung Chang, Yu-Wen Yeh, Sheng-Hui Chen, and Cheng-Chung
Lee, “Design and fabrication of autocloned polarization beam splitter”, Optics and Photonics Taiwan ’09, EO-120, National Taiwan Normal University, Taipei, Taiwan, Dec. 11-12, (2009).


257. Tzu-Chiao Wei, Chien-Cheng Kuo, Jun-Jie Huang, and Cheng-Chung Lee, “Research on angle-selective filters of the color wheel in LED projector”, Optics and Photonics Taiwan ’09, EO-121, National Taiwan Normal University, Taipei, Taiwan, Dec. 11-12, (2009).

258. Chi-Li Yeh, Ming-Tzu Chou, and Sheng-Hui Chen, “Research on the properties of amorphous Si thin films using RF bias sputtering”, Optics and Photonics Taiwan ’09, IO-124, National Taiwan Normal University, Taipei, Taiwan, Dec. 11-12, (2009).


262. Yi-Ru Hsieh, Yi-Chun Chen, and Chen-Chung Lee, “Improving stability in Surface-Plasmon-Resonance phase acquisition system by continuous phase shifting interferometry”, Optics and Photonics Taiwan ’09, FO108, National Taiwan Normal University, Taipei, Taiwan, Dec. 11-12, (2009).


278. Zih-Ciao Wei, Chien-Cheng Kuo and Cheng-Chung Lee, “Research on angle-selective filters of
phosphors color wheel for LED projector”, SPIE paper 7786-3, San Diego, August 1-5, (2010).


310. Zhi-Fu Huang, Bo-Huei Liao, Cheng-Chung Lee, and Sheng-Hui Chen "Electrical and optical properties of F-doped ZnO thin films deposited by pulse DC magnetron sputtering of zinc target, "156, international symposium on sputtering & plasma processes, ISSP 2011, 2011/07/06-08, Kyoto Research Park, Japan

311. Jing-Rang Liu, Meng-Chi Li, Chien-Cheng Kuo, Ming-His Wang, Chen-Pang Kung and Cheng-Chung-Lee, "Electrical and optical properties of ultrathin ITO films prepared by DC pulse magnetron sputtering, "141, ISSP 2011 : 2011/07/06-08, Kyoto Research Park, Japan


Design & Fabrication, ODF (Number: 079842), St. Petersburg, Russia, 2-5 July, (2012).


Interference Coatings (OIC), 16-21 June Whistler, Canada, 2013.


Feathers”, Optics & Photonics Taiwan the International Conference (OPTIC), S0603-O001, Chung-Li, Taiwan, 5-7 Dec. 2013.


363. Wei-Bo Liao, Bo-Huei Liao, Shih-Hao Chan, Meng-Chi Li, Cheng-Chung Lee, Donyau Chiang, Chien-Cheng Kuo, “Fluorine-doped Tin Oxide Films Grown by Pulsed Direct Current Magnetron Sputtering with NF3”, Optics & Photonics Taiwan the International Conference (OPTIC), S1004-O002, Chung-Li, Taiwan, 5-7 Dec. 2013.

364. Hung-Ju Lin, Cheng-Chung Lee, François Flory, Judikael Le-Rouzo, “The Study of PMMA Embedded with Semiconductor Quantum Dots in a Periodically Structural Thin Film”, Optics & Photonics Taiwan the International Conference (OPTIC), S1004-O004, Chung-Li, Taiwan, 5-7 Dec. 2013. [OPTIC 2013 Best Student Paper Award]

365. Chien-Jen Tang, Jyong-Min Ding, Yong-Wei Hsu, Cheng-Chung Jaing, Cheng-Chung Lee, “Optical Properties of (Nb2O5)x(SiO2)1-x Composite by RF Ion-beam Deposition”, Optics & Photonics Taiwan the International Conference (OPTIC), P1002-P005, Chung-Li, Taiwan, 5-7 Dec. 2013.


368. Ching-Wei Cheng, Yan-Ting Chen, Cheng-Chung Lee, Jui-Fen Chang, “Organic Polaritons in All-metal Mirror Microcavities”, Optics & Photonics Taiwan the International Conference (OPTIC), P1001-P001, Chung-Li, Taiwan, 5-7 Dec. 2013. [OPTIC 2013 Best Student Poster Award]

Method for calculating optical thin films”, Optics & Photonics Taiwan the International Conference (OPTIC), PPD02-P001, Chung-Li, Taiwan, 5-7 Dec. 2013.


398. Ya-Chen Chang, Hung-Sen Wei, Sing-Rong Huang, Chien-Cheng Kuo, Yu-Sheng Chen, Chien-Cheng Kuo, “Increasing the Transmittance of Superhydrophilic Thin Film with Favorable Abrasion Resistance”, OPTIC2015, 4-6 December, Hsinchu Taiwan, 2015.


● C. Books & Chapters of Book

(English)


(Chinese)

(Japanese)
   2003/06 Reprint, ISBN 4-901496-01-8 C3054
   2005/08 Reprint, ISBN 4-901496-01-8 C3054
   2008/06 Reprint, ISBN 4-901496-01-8 C3054

1. Authorization of Publications and Technical Articles
A. Authorization of Publications
1. Work: Theory of Optic Thin Film and Fabrication of Filter
   Classification: Computerizing Distance Learning
   Author: Cheng-Chung Lee
   Authorized: Asia Training Network (ATN)
   Date: 2005/12

B. Technical Articles in Chinese

20. C. C. Lee, “Shutting optics thin films in high vacuum”, Journal of the Vacuum Society, 10, #1,
40. Bo-Yu Huang, Yong-Tong Zou, Sheng-Hui Chen, C. C. Lee, “Thin film optical low-pass filter”,


