

## Wen-Shing Sun Publication List

### (一)期刊論文(Journal paper SCI):

- (1) W. S. Sun, C. L. Tien\*, T. Y. Chung, Y. N. Lin, J. Y. Lee, D. Y. Hsieh, T. W. Lin, "Design and evaluation of a Blu-ray pickup head system for determining the tilt angle and displacement of the test plane," Optics and Lasers in Engineering, **49**, 1076-1088 (2011).
- (2) C. H. Tsuei, and W. S. Sun\*, "Momentary adjusting methods for simulating the color temperature, hues and brightness of daylight illumination with RGB LEDs for indoor lighting," Optics Express, **19** (S4), A908-A913 (2011).
- (3) C. H. Tsuei, W. S. Sun\*, and C. C. Kuo, "Hybrid sunlight/LED illumination and renewable solar energy saving concepts for indoor lighting," Optics Express, **18** (104), A640-A653 (2010).
- (4) J. W. Pan\*, S. H. Tu, W. S. Sun, C. M. Wang, and J. Y. Chang, "Integration of Non-Lambertian LED and Reflective Optical Element as Efficient Street Lamp," Optics Express, **18**, 221-230 (2010).
- (5) W. S. Sun\*, C. H. Chu and C. L. Tien, "Well-Chosen Method for an Optimal Design of Doublet Lens Design," Optics Express, **17**, 1414-1428 (2009).(NSC 95-3114-P-001-008-MY3)
- (6) W. S. Sun\*, K. D. Liu, J. W. Pan and C. L. Tien and M. S. Hsieh, "Laser expander design of highly efficient Blu-ray disc pick-up head," Optics Express, **17**, 2235-2246 (2009). (NSC 95-3114-P-001-008-MY3)
- (7) C. H. Tsuei, J. W. Pan and W. S. Sun\*, "Simulating the illuminance and the efficiency of the LED and fluorescent lights used in door lighting design," Optics Express, **16**, 18692-18701 (2008). (NSC 96-2221-E-008-1112)
- (8) C. Y. Chen, T. T. Yang and W. S. Sun\*, "Optics system design applying a micro-prism array of a single lens stereo image pair," Optics Express, **16**, 15495-15504 (2008).
- (9) J. W. Pan\*, C. M. Wang, W. S. Sun and J. Y. Chang, "Portable digital micromirror device projector using a prism," Applied Optics **46**, 5097-5102 (2007).
- (10) W. S. Sun, C. C. Sun\*, J. T. Chang, C. L. Tien, S. H. Ma, "Triple-wavelength optical pick-up head designs for the CD, DVD and HD-DVD devices," Journal of Modern Optics, **52**, 2523-2547 (2005).
- (11) W. S. Sun, T. X. Lee, C. C. Sun\*, C. H. Lin and C. Y. Chen, "The design of a miniature HD-DVD optical pick-up head using a Penta prism," Journal of Modern Optics, **52**, 775-789 (2005).
- (12) W. S. Sun, C. L. Tien\*, C. C. Sun, H. Chang, M. W. Chang and C. Y. Chen, "The design of a triplet with a shape-dependent third-order aberration optimization technique," Journal of Modern Optics **51**, 705-724 (2004).
- (13) C. L. Tien\*, W. S. Sun, C. C. Sun and C. H. Lin, "Optimization design of the split doublet using the shape factors of the third-order aberrations for a thick lens," Journal of Modern Optics **51**, 31-47 (2004).
- (14) W. S. Sun, H.Chang, C. C. Sun\*, M. W. Chang, C. H. Lin and C. L. Tien, "Design of high-power aspherical ophthalmic lenses with a reduced error budget," Optical Engineering **41**, 460-470 (2002).
- (15) C. L. Tien\*, C. C. Lee, Y. L. Tsai and W. S. Sun, "Determination of the mechanical properties of thin films by digital phase shifting interferometry," Opt. Communication **198**, 325-331 (2001).
- (16) C. C. Sun, Wei-Chia Su, Y. Ouyang and W. S. Sun, "Applications of random phase encoding in volume holograms," Optical Memory and Neural Network **10**, 25-34 (2001).
- (17) W. S. Sun, C. L. Tien, C. C. Sun\*, M. W. Chang and H. Chang, "Ophthalmic lens design with

*the optimization of the aspherical coefficients,”* Optical Engineering **39**, 978-988. (2000)

- (18) C. C. Sun\*, B. Wang, W. S. Sun and J. Y. Chang, “*Dynamic double-exposure interferometer based on anisotropic self-diffraction in BaTiO<sub>3</sub>*,” Jpn. J. Appl. Phys. **39**,6560-6564 (2000).

## (二)研討會論文(Conference paper):

- (1) Y. N. Lin, W. S. Sun, “*High resolution detection of synchronously determining tilt angle and displacement of test plane by Blu-ray pickup head*,” ICOPEN 2011, Singapore, ICOPEN115058 (2011).
- (2) W. S. Sun, C. H. Tsuei, and Y. Han Huang, “*Simulating the illuminance and efficiency of the LEDs used in general household lighting*,” ICOPEN 2011, Singapore, ICOPEN115064 (2011).
- (3) C. H. Tsuei, W. S. Sun, “*Momentary adjustment means for simulating the sunlight color temperature, hues and brightness with RGB LEDs indoor lighting*,” ICOPEN 2011, Singapore, ICOPEN115063 (2011).
- (4) W. S. Sun, Y. C. Chiang, and C. H. Tsuei, “*Optical design for the DLP pocket projector using LED light source*,” ICOPEN 2011, Singapore, ICOPEN115129 (2011).
- (5) C. L. Tien, Y. N. Lin, W. S. Sun, T. W. Lin, “*Design and evaluation of aspherical microlens module for high speed data transmission*,” ICOPEN 2011, Singapore, ICOPEN115068 (2011).
- (6) W. S. Sun, C. H. Tsuei, C. C. Kuo, “*Renewable solar energy saving concept of hybrid sunlight/LED illuminating system in indoor lighting*”, APLSW 2011, P18 (2011).
- (7) Ching-Cherng. Sun, Ching-Chun Lee, Wen-Shing Sun, Wei-Cheng Cheng, and Pu-Yi Chu, “*Simple selection method of doublet prisms for minimizing the chromatic aberration*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT5-O-10 (2010).
- (8) S. D. Jiang, C.H. Chiu, H. C. Wu, P. S. Lee, Y. C. Lee, W. S. Sun, and M. L. Wu, “*The Improvement of Efficiency and Uniformity in Non-Image LED Illumination for Field-Sequential-Color Pico-Projector*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT7-O-10 (2010).
- (9) C.H. Chiu, S. D. Jiang, P. S. Lee, Y. C. Lee, W. S. Sun, and M. L. Wu, “*The Modulation of LEDs driving current and duration ratio in application of Color - Sequential-Color Pico-Projector*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT7-O-11 (2010).
- (10) W. S. Sun, Y. J. Chen, and B. J. Chen, “*Lens design of head-mounted display*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT4-P-12 (2010).
- (11) W. S. Sun, S. Y. Chang, and Y. C. Chiang, “*Analyses about stray light for zoom0 lens of the mobile phone*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT4-P-19 (2010).
- (12) W. S. Sun, S. W. Yang, T. H. Wu, “*Digital telescope*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT5-P-054 (2010).
- (13) C. L. Tien, Y. N. Lin, Y. C. Chen, W. S. Sun, “*Design of aspherical microlens pair for improving coupling efficiency*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT5-P-058 (2010).
- (14) W. S. Sun, C. C. Hsu, and W. C. Cheng, “*Stray light analysis and improvement in endoscope lens design*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT6-P-17 (2010).
- (15) C. Y. Chen, C. F. Su, Q. Y. Cheng, and W. S. Sun, “*Design of a Single-Lens Stereoscopic Camera Based on a Micro-Tetrahedron Prism Array*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT7-P-015 (2010).
- (16) W. S. Sun, Y. H. Huang, and C. H. Tsuei, “*Simulation of the household illumination with*

- LED*,” OPT’10 International Conference on Optics and Photonics in Taiwan, OPT8-P-028 (2010).
- (17) W. S. Sun, Y. N. Lin, J. Y. Chang, “Simulation Method for Measuring the Displacement and Angle with a DVD Pickup Head,” ISOM’10, Taiwan, Tu-H-09 (2010).
- (18) W. S. Sun, Y. N. Lin, J. Y. Chang, “Unitary Photodetector Compatible Optical Pickup Head for Blu-ray Disc, Digital Versatile Disc, and Compact Disc Systems,” ISOM’10, Taiwan, Tu-I-12 (2010).
- (19) W. S. Sun and C. H. Tsuei, “Sunlight and LED Hybrid Illumination in Indoor Lighting Design,” IODC, Jackson Hole, Wyoming, USA, JMB21 (2010).
- (20) W. S. Sun, “Illustrating Method of Triplet Prisms for Minimizing the Chromatic Aberration,” IODC, Jackson Hole, Wyoming, USA, JMB33 (2010).
- (21) W. S. Sun, “Simulation method for measuring the displacement and angle on the test plane with a DVD pickup head,” 7<sup>th</sup> ODF’10, Yokohama, 20PSa-07 (2010).
- (22) C. L. Tien, H. Y. Hsu, Y. N. Lin, and W. S. Sun, “Optimization Design of Microlens for High Data Transfer Rate,” 7<sup>th</sup> ODF’10, Yokohama, 20PSa-20 (2010).
- (23) C. H. Tsuei and W. S. Sun, “Simulating the illuminance and the Efficiency of Daylight/LED Hybrid Illuminating System used in Interior Lighting Design,” 7<sup>th</sup> ODF’10, Yokohama, 20PSp-09 (2010).
- (24) Y. H. Huang, W. S. Sun, “Simulation method for measuring of the displacement and angle with a DVD pickup head,” OPT’09, E0117, 台灣師範大學, Taiwan, Dec. 11-12 (2009).
- (25) W. S. Sun, C. H. Tsuei, J. Y. Lee, D. Y. Hsieh, “Measurement of the angle and displacement for the optical pickup head of a pigtailed laser diode,” SOPO 2009 50217 (2009).
- (26) W. S. Sun, K. D. Liu, C. H. Tsuei, Y. F. Lu, G. C. Chi, “Unitary sensor of Blu-ray and DVD pickup device,” SOPO 2009 50277 (2009).
- (27) W. S. Sun, C. H. Tsuei, “Simulating the Illuminance and Efficiency of sunlight/LED Hybrid Illuminating System used in Indoor Lighting Design,” SOPO 2009 50197 (2009).
- (28) Sheng-I Chang, Wen-Shing Sun, “Stray Light Analysis and Suppression of 3x Zoom Lens for a Mobile Phone,” OPT’08 International Conference on Optics and Photonics in Taiwan, Fri-P1-257 (2008).
- (29) Kun-Di Liu, Wen-Shing Sun, Dung-Yi Hsieh, Jhu-Yu Li “The Angle and Displacement Measurements for the Optical Pickup Head,” OPT’08 International Conference on Optics and Photonics in Taiwan, Fri-P1-264 (2008).
- (30) Ai-Hsiang Liu, Wen-Shing Sun, “The Design of the High Collimated Light Guide,” OPT’08 International Conference on Optics and Photonics in Taiwan, Fri-P1-265 (2008).
- (31) Chih-Hsuan Tsuei, Wen-Shing Sun, “Simulating the Illuminance and the Efficiency of the Glare avoiding LED Design and Fluorescent Lights Used in Indoor Lighting Design,” OPT’08 International Conference on Optics and Photonics in Taiwan, Sat-P2-220 (2008).
- (32) Shin-You Chen, Wen-Shing Sun, “Photocopier Lens Design,” OPT’08 International Conference on Optics and Photonics in Taiwan, Sat-P2-243 (2008).
- (33) W. S. Sun, “High Efficiency Collimator for HD-DVD Pick-Up Head,” 6<sup>th</sup> ODF’08, 9S1-14 (2008).
- (34) W. S. Sun, C. H. Tsuei, “Simulating the illuminance and the efficiency of the LED and fluorescent lights use in interior lighting design,” 6<sup>th</sup> ODF’08, 10PS-012 (2008).
- (35) W. S. Sun, C. H. Chu, “The Best Doublet design,” 6<sup>th</sup> ODF’08, 10PS-018 (2008).
- (36) W. S. Sun, L. J. Chen, C. L. Tien “Optical design of DLP front projection system,” 6<sup>th</sup> ODF’08, 10PS-050 (2008).
- (37) C. L. Tien, C. H. Huang, H. W. Chen, W. S. Sun, “design of night-vision zoom lenses for use with image intensifier tube,” 6<sup>th</sup> ODF’08, 10PS-054 (2008).

- (38) M. Ou-Yang, Y. T. Chen, W. S. Sun, “Design and analysis of laser illumination system in projector application,” 6<sup>th</sup> ODF’08, 10PS-057 (2008).
- (39) W. S. Sun, H. C. Tsai, M. Ou-Yang, “Combo-optical pick-up head,” 6<sup>th</sup> ODF’08, 10PS-101 (2008).
- (40) W. S. Sun, I. H. Mou, “3x Zoom Lens Design for a Mobile Phone,” 6<sup>th</sup> ODF’08, 10PS-138 (2008).
- (41) 崔智宣、孫文信, “LED 燈源與日光燈之室內照明效率模擬計算”, HO-011, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (42) 牟益弘、孫文信, “三百萬畫素三倍光學變焦鏡頭設計”, EO-034, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (43) 朱建勳、孫文信, “雙片鏡組最佳值設計”, EO-058, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (44) 陳信佑、孫文信, “單一光電檢測器之複合式光學讀寫頭”, DP-031, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (45) 劉焜地、孫文信, “雙片鏡組設計”, EP-022, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (46) 謝東益、孫文信, “利用讀寫頭之像散法在角度與位移之量測”, EP-116, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (47) 蔡宏昌、孫文信, “光學讀寫頭之光學設計”, EP-119, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (48) 劉艾香、孫文信, “數位相機成像品質檢驗”, EP-124, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (49) 張聖翊、孫文信, “眼鏡片優化設計”, FP-015, Optics and Photonics Taiwan’07, 中興大學, 台灣, Nov. 30- Dec. 1 (2007).
- (50) W. S. Sun and C. C. Sun, “The Combined of High-density Digital Versatile Disk, Digital Versatile Disk and Compact Disk Design with Prism,” APCOM 037TW, 43 (2007).
- (51) 楊家逢、孫文信, “Dual-wavelength-compatible pickup head with one optical system and one optical path”, EO-53, Optics and Photonics Taiwan’06, 清華大學, 台灣, Dec. 15-16 (2006).
- (52) 孫文信、謝敏生, “使用水平擴束或垂直減束光學系統提高光學讀寫頭效率之光路設計”, EO-54, Optics and Photonics Taiwan’06, 清華大學, 台灣, Dec. 15-16 (2006).
- (53) 李靜君、孫文信、張明文、孫慶成, “稜鏡玻璃選取對色差的影響與校正”, GP-08, Optics and Photonics Taiwan’06, 清華大學, 台灣, Dec. 15-16 (2006).
- (54) 孫文信、羅翊戩、張明文、李靜君、孫慶成, “四百萬畫素手機鏡頭設計”, PE-SA1-062, Optics and Photonics Taiwan’05, 成功大學, 台灣, Dec. 9-10 (2005).
- (55) 孫文信、羅翊戩、張明文、孫慶成, “兩百萬畫素兩倍變焦手機鏡頭設計”, PE-SA1-055, Optics and Photonics Taiwan’05, 成功大學, 台灣, Dec. 9-10 (2005).
- (56) 孫文信、鄭國良、張勝雄, “水平擴束之高效率 HD-DVD 光學讀寫頭光路設計”, PE-SA1-026, Optics and Photonics Taiwan’05, 成功大學, 台灣, Dec. 9-10 (2005).
- (57) W. S. Sun, C. C. Sun, C. L. Tien, T. X. Lee, “Combo HD-DVD and DVD pick-up head with prisms”, Proc. SPIE 5638, 489-496 (2004).
- (58) W. S. Sun, T. X. Lee, W. H. Lee, C. C. Sun, H. Chang, M. W. Chang, “Compact HD-DVD Pickup Head with a Lens-prism,” Proc. SPIE 5174, 128-135 (2003).
- (59) W. S. Sun, H. Chang, C. C. Sun and M. W. Chang, “Improved Optimization Method for Designing a Doublet Lens,” Proc. SPIE 4442, 146-156 (2001).
- (60) W. S. Sun, H. Chang, C. C. Sun, M. W. Chang and C. L. Tien, “Design of a Cooke Triplet by Optimization Technique,” Proc. SPIE 4442, 135-145 (2001).

### (三)專利(Patent):

## 1. 美國專利

- (1) US 7924687, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Invention, April 12, 2011.
- (2) US 7646680, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Invention, Jan. 12, 2010.
- (3) US 7483359, Optical Pickup Head and Information Recording and/or Reproducing Device Incorporating same, Wen-Hsin Sun, Invention, Jan. 27, 2009.
- (4) US 7466643, Optical pickup system and information recording and/or reproducing apparatus employing the same, Wen-Hsin Sun, Invention, Dec. 16, 2008.
- (5) US 7450187, Liquid crystal shutter device for a camera, Wen-Hsin Sun, Invention, Nov. 11, 2008.
- (6) US 7446954, Hybrid lens system, Wen-Hsin Sun, Invention, Nov. 4, 2008.
- (7) US 7436751, Optical Pickup Head and Information Recording and/or Reproducing Device Incorporating same, Wen-Hsin Sun, Invention, Oct. 14, 2008.
- (8) US 7433135, Image pick-up lens system, Wen-Hsin Sun, Invention, Oct. 7, 2008.
- (9) US 7362518, Small sized wide angle lens, Wen-Hsin Sun, Apr. 22, 2008.
- (10) US 7355798, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Apr. 8, 2008.
- (11) US 7336587, Optical Pickup Head Compatible with Multiple optical Recording Media, Wen-Hsin Sun, Feb. 26, 2008.
- (12) US 7336586, Optical pickup device compatible with two types of optical recording media, Wen-Hsin Sun, Feb. 26, 2008.
- (13) US 7228069, Automatic focusing method for digital camera, Wen-Hsin Sun, Jun. 5, 2007.
- (14) US 7212354, Lens system for digital camera, Wen-Hsin Sun, May 1, 2007.
- (15) US 7184226, Hybrid lens system and mobile phone employing the same, Wen-Hsin Sun, Feb. 27, 2007.
- (16) US 7130133, Lens having wavelike lens element, Wen-Hsin Sun, Oct. 31, 2006.
- (17) US 7050381, OPTICAL SYSTEM HAVING A CONVEX SURFACE FOR ACCESSING A STORAGE MEDIUM, Vincent Sun, and Darren Chen, May 23, 2006.
- (18) US 20100220575, OPTICAL PICKUP HEAD, Wen-Hsin Sun, Mao-Jen Wu, Hsiao-Chin, An-Nong Wen, Chih-Hung Hsu, Sep. 2, 2010.
- (19) US 20070091770, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Invention, Apr. 26, 2007.
- (20) US 20070070624, Light-emitting diode assembly and light source device using same, Wen-Hsin Sun, Invention, Mar. 29, 2007.
- (21) US 20070053275, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Invention, Mar. 8, 2007.
- (22) US 20070047401, Optical system for collimating elliptical light beam and optical device using the same, Wen-Hsin Sun, Invention, Mar. 1, 2007.
- (23) US 20060239172, Object lens and optical pickup device incorporating same, Wen-Hsin Sun, Invention, Oct. 26, 2006.
- (24) US 20060126458, Optical Pickup Head and Information on Recording and/or Reproducing Device Incorporating Same, Wen-Hsin Sun, Ming-Chiang Tsai, Invention, Jun. 15, 2006.
- (25) US 20060104182, Optical Pickup Head and Information Recording and/or Reproducing Device Incorporating same, Wen-Hsin Sun, Invention, May 18, 2006.
- (26) US 20060002114, LED lamp with curving cylinder lens, Wen-Hsin Sun, Invention, Jan. 5, 2006.
- (27) US 20060001830, Method for design aspheric spectacle lens, Wen-Hsin Sun, Invention, Jan. 5, 2006.
- (28) US 20050276179, Optical pickup head system and information recording and/or reproducing apparatus employing the same, Wen-Hsin Sun, Invention, Dec. 15, 2005.
- (29) US 20050237903, Optical pickup head compatible with two different optical recording media,

## 2. 台灣專利

- (1) I339395, 光學系統及採用該光學系統之光學記錄/再現裝置, 孫文信, 發明, 公告日 2011/03/21。
- (2) I339274, 複合透鏡系統, 孫文信, 發明, 公告日 2011/03/21。
- (3) I337269, 眼鏡片設計方法, 孫文信, 發明, 公告日 2011/02/11。
- (4) I337265, 非球面會聚鏡片, 孫文信, 發明, 公告日 2011/02/11。
- (5) I335030, 光學系統及採用該光學系統之光學記錄/再現裝置, 孫文信, 發明, 公告日 2010/12/21。
- (6) I329869, 半導體雷射模組及採用該半導體雷射模組的光學拾取裝置, 孫文信, 發明, 公告日 2010/09/01。
- (7) I323125, 數位相機之自動對焦方法, 孫文信, 發明, 公告日 2010/04/01。
- (8) I321230, 遠視眼鏡片設計方法, 孫文信, 發明, 公告日 2010/03/01。
- (9) I321229, 遠視眼鏡片, 孫文信, 發明, 公告日 2010/03/01。
- (10) I320285, 數位影像解析度測試圖及其製作方法, 孫文信, 發明, 公告日 2010/02/01。
- (11) I317434, 非球面鏡片, 孫文信, 發明, 公告日 2009/11/21。
- (12) I316363, 數位影像解析度測試圖及其製作方法, 孫文信, 發明, 公告日 2009/10/21。
- (13) I307805, 數位相機鏡頭模組之焦點調整方法, 孫文信, 發明, 公告日 2009/03/21。
- (14) I302308, 光學讀/寫系統, 孫文信, 發明, 公告日 2008/10/21。
- (15) I302307, 光學讀/寫系統, 孫文信, 發明, 公告日 2008/10/21。
- (16) I287222, 光學拾起裝置, 孫文信、蔡明江、張仁淙, 發明, 公告日 2007/09/21。
- (17) I284895, 光學讀/寫裝置, 孫文信, 發明, 公告日 2007/08/01。
- (18) I276094, 光讀/寫裝置, 孫文信, 發明, 公告日 2007/03/11。
- (19) I275084, 光學讀/寫系統, 孫文信, 發明, 公告日 2007/03/01。
- (20) I273586, 光學讀/寫系統, 孫文信, 發明, 公告日 2007/02/11。
- (21) I273343, 數位相機鏡頭模組調整方法, 孫文信、張仁淙、邱文賜、李俊佑、江宗韋, 發明, 公告日 2007/02/11。
- (22) I261686, 數位相機鏡頭, 孫文信, 發明, 公告日 2006/09/11。
- (23) I260616, 光學讀/寫系統, 孫文信, 發明, 公告日 2006/08/21。
- (24) 90130705, 影碟光路系統, 孫文信、陳煌坤, 發明, 公告日 2003/04/21。
- (25) M287943, 數位相機之鏡頭構造, 孫文信、張勝雄, 新型, 公告日 2006/02/21。
- (26) M287942, 一種光學鏡片, 張勝雄、孫文信、潘恆堯、鍾建文, 新型, 公告日 2006/02/21。
- (27) M276208, 鏡頭模組, 邱文賜、孫文信, 新型, 公告日 2005/09/21。
- (28) M272096, 複合透鏡系統, 孫文信, 新型, 公告日 2005/08/01。
- (29) M261701, 數位相機鏡頭及其應用該數位相機鏡頭之數位相機模組, 孫文信, 新型, 公告日 2005/04/11。
- (30) M260739, 數位相機鏡頭, 孫文信, 新型, 公告日 2005/04/01。
- (31) M259320, LED 照明裝置, 孫文信, 新型, 公告日 2005/03/11。
- (32) M259170, 數位相機鏡頭, 孫文信, 新型, 公告日 2005/03/11。
- (33) M254602, 數位相機鏡頭, 孫文信, 新型, 公告日 2005/01/01。
- (34) M249217, 影像感測器, 孫文信, 新型, 公告日 2004/11/1。
- (35) M246918, 數位相機模組, 孫文信, 新型, 公告日 2004/10/11。
- (36) 529022, 影碟之光學系統, 孫文信、陳煌坤, 發明, 公告日 2003/04/21。
- (37) 201106065, 背光模組用途 LED 平行導光板設計, 孫文信、劉艾香、李企桓、林暉雄, 發明, 公開日 2011/02/16。
- (38) 201106037, 降低雜散光之光學設計, 孫文信、張聖翊, 發明, 公開日 2011/02/16。
- (39) 201032228, 光學讀寫頭, 孫文信、伍茂仁、藍孝晉、溫安農、許志安, 發明, 公開日 2010/09/01。
- (40) 201026987, 太陽光紅外線波段及白光 LED 分光稜鏡混合照明系統, 崔智宣、孫文信, 發明, 公開日 2010/07/16。
- (41) 201020446, 高效率太陽光集光器照明系統, 崔智宣、孫文信, 發明, 公開日 2010/06/01。

- (42) 201018967, 空間照明用途太陽光導光管, 崔智宣、孫文信, 發明, 公開日 2010/05/16。
- (43) 201018824, 防眩光均勻照明室內天花板 LED 燈具, 發明, 崔智宣、孫文信, 發明, 公開日 2010/05/16。
- (44) 201017032, 均勻照明室內天花板 LED 燈具, 發明, 崔智宣、孫文信, 發明, 公開日 2010/05/01。
- (45) 200949286, 微型三倍光學變焦手機鏡組, 孫文信、牟益弘, 發明, 公開日 2009/12/01。
- (46) 200934981, 輕鋼架天花板型 LED 燈具, 孫文信、崔智宣, 發明, 公開日 2009/08/16。
- (47) 200907950, 可同時讀取磁光型碟片及相位型碟片的微型光學讀取頭, 李企桓、孫文信, 發明, 公開日 2009/02/16。
- (48) 200905675, 光學讀寫頭應用於角度量測 (案一), 孫文信、楊家逢、謝東益, 發明, 公開日 2009/02/01。
- (49) 200905353, 全效式數位相機模組, 謝東益、孫文信, 發明, 公開日 2009/02/01。
- (50) 200905180, 多功能測試光學特性圖表 (chart) 使用於成像產品, 馬超慧、孫文信, 發明, 公開日 2009/02/01。
- (51) 200905156, 光學讀寫頭應用於角度量測 (案二), 孫文信、楊家逢、謝東益, 發明, 公開日 2009/02/01。
- (52) 200904147, 攝像模組的鏡頭調整方法, 孫文信、林秉忠, 發明, 公開日 2009/01/16。
- (53) 200903472, 光學讀/寫系統, 簡銘進、孫文信, 發明, 公開日 2009/01/16。
- (54) 200903093, 偏振光產生裝置, 孫文信、林秉忠, 發明, 公開日 2009/01/16。
- (55) 200901185, 以多邊形菱鏡組為基礎的共軛光學型光學讀/寫系統, 孫文信、李企桓, 發明, 公開日 2009/01/01。
- (56) 200901183, 以含全像鏡面的多邊形菱鏡組為基礎的共軛光學型光學讀/寫系統, 李企桓、孫文信, 發明, 公開日 2009/01/01。
- (57) 200900777, 單鏡片 10 萬像素視訊/手機相機鏡頭模組, 馬超慧、孫文信, 發明, 公開日 2009/01/01。
- (58) 200900738, 單鏡片 35 萬像素手機相機鏡頭模組, 馬超慧、孫文信, 發明, 公開日 2009/01/01。
- (59) 200849239, 以含全像鏡面的菱鏡組為基礎的共軛光學型光學讀/寫系統, 李企桓、孫文信, 發明, 公開日 2008/12/16。
- (60) 200849234, 以物鏡及一多邊形菱鏡組為基礎的共軛光學型光學讀/寫系統, 發明, 孫文信、李企桓, 公開日 2008/12/16。
- (61) 200848776, 全效式數位相機模組, 謝東益、孫文信, 發明, 公開日 2008/12/16。
- (62) 200720831, 液晶快門裝置, 孫文信, 發明, 公開日 2007/06/01。
- (63) 200717497, 光束整形裝置及使用該裝置之光學記錄/再現裝置, 孫文信, 發明, 公開日 2007/05/01。
- (64) 200713247, 光學模組及採用該光學模組之光學記錄/再現裝置, 孫文信, 發明, 公開日 2007/04/01。
- (65) 200713238, 光束整形元件及採用該光束整形元件之光學模組, 孫文信, 發明, 公開日 2007/04/01。
- (66) 200712752, 複合透鏡系統, 孫文信, 發明, 公開日 2007/04/01。
- (67) 200712540, 複合透鏡系統, 孫文信, 發明, 公開日 2007/04/01。
- (68) 200712371, 發光二極體陣列及採用該發光二極體陣列之燈源, 孫文信, 發明, 公開日 2007/04/01。
- (69) 200643460, 數位相機鏡頭, 孫文信, 發明, 公開日 2006/12/16。
- (70) 200638379, 物鏡及採用該物鏡的光學讀取頭, 孫文信, 發明, 公開日 2006/11/01。
- (71) 200638066, 非球面鏡片的設計方法, 孫文信, 發明, 公開日 2006/11/01。
- (72) 200634780, 用於光碟記錄/再現裝置之光學系統, 孫文信, 發明, 公開日 2006/10/01。
- (73) 200611046, 數位相機廣角鏡頭, 孫文信, 發明, 公開日 2006/04/01。
- (74) 200600874, 眼鏡片, 孫文信, 發明, 公開日 2006/01/01。
- (75) 200532676, 光學讀/寫系統, 孫文信, 發明, 公開日 2005/10/01。

#### (四) 技術報告：

- 1.”光機電系統整合概論”, (2005年7月, ISBN 986-81409-1-9), (合著書), 國家實驗研究院 儀器科技研究中心出版, p13-29.
- 2.”光學元件精密製造與檢測”, (2007年7月, ISBN 978-986-81409-2-9), (合著書), 國家實驗研究院 儀器科技研究中心出版, p33-55.