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   Chen, Mei-Fang (Department of Nursing, National Tainan Junior College of Nursing, Taiwan); Tsai, Chun-Chin; Wu, Chia-Shan; Chen, Ting-Wei; Hung, Meng-Hui **Source:** *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, v 13313, 2025, *Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables VI*
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2. **Research on Improving the Teaching Effectiveness of LED Courses**
   Tsai, Chun-Chin (Department of Semiconductor and Electro-Optical Engineering, Southern Taiwan Univ. of Science and Technology, Taiwan); Chen, Mei-Fang; Tsai, Jia-Yun; Tsai, Yu-Shiang **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13375, 2025, *AI and Optical Data Sciences VI*
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Research on Improving the Teaching Effectiveness of LED Courses

Tsai, Chun-Chin (Department of Semiconductor and Electro-Optical Engineering, Southern Taiwan Univ. of Science and Technology, Taiwan); Chen, Mei-Fang; Tsai, Jia-Yun; Tsai, Yu-Shiang

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The quality study of recycled glass phosphor waste for LED

Tsai, Chun-Chin (Department of Electronic and Optoelectronic Application Engineering, Far East University, Tainan, Taiwan); Chen, Guan-Hao; Yue, Cheng-Feng; Chen, Cin-Fu; Cheng, Wood-Hi

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 10124, 2017, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XXI*
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The study of LED light source illumination conditions for ideal algae cultivation

Tsai, Chun-Chin (Department of Electronic and Optoelectronic Application Engineering, Far East University, Tainan, Taiwan); Huang, Chien-Fu; Chen, Cin-Fu; Yue, Cheng-Feng

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 10107, 2017, *Smart Photonic and Optoelectronic Integrated Circuits XIX 2017*
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Thermal Aging Performance Analyses of High Color Rendering Index of Glass-Based Phosphor-Converted White-Light-Emitting Diode

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan; 74448, Taiwan)

Source:

IEEE Transactions on Device and Materials Reliability, v 15, n 4, p 617-620, December 2015
Database: Compendex
Document type: Journal article (JA)
Numerical data indexing: Percentage 5.50e+01%, Temperature 3.90e+03K, Temperature 4.23e+02K, Temperature 5.23e+02K

6.

Magneto-optical properties and magnetic inductive heating of sodium oleate coated Fe3O4 magnetic fluid

Lin, Jing-Fung (Graduate School of Computer Application Engineering, Far East University, No. 49, Zhonghua Rd., Xinshi Dist., Tainan; 74448, Taiwan); Tsai, Chun-Chin; Huang, Cong-Hui; Lee, Meng-Zhe; Lin, Yi-Qun

Source:

Optik, v 126, n 9-10, p 907-911, May 1, 2015
Database: Compendex
Document type: Journal article (JA)
Numerical data indexing: Electric_Current 2.10e+02A, Magnetic_Flux_Density 6.45e-02T, Mass_Density 1.00e+03kg/m3, Mass_Density 2.00e+00kg/m3, Mass_Density 5.00e+01kg/m3, Percentage 5.00e+01%, Size 1.00e-08m to 2.50e-08m, Temperature 3.18e+02K, Time 2.00e+02s

7.

Process dependent luminescence characteristics of low-temperature Ce^{3+}:YAG doped glass for phosphor-converted white-light-emitting diodes

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan City; 74448, Taiwan)

Source:

Optik, v 126, n 6, p 655-658, March 1, 2015
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Next-generation glass-base phosphor-converted laser light engine

Chang, Jin-Kai (Department of Photonics, National Sun Yat-sen University, Kaohsiung; 804, Taiwan); Cheng, Wei-Chih; Chang, Yung-Peng; Kuo, Yi-Yin; Tsai, Chun-Chin; Huang, Yi-Chung; Chen, Li-Yin; Cheng, Wood-Hi

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 9571, 2015, *Fourteenth International Conference on Solid State Lighting and LED-Based Illumination Systems*
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Packaging of phosphor-converted white light-emitting diodes for solid-state lighting

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan; 744, Taiwan); Yue, Cheng-Feng; Lee, Yu-Chun; Fu, Kai-Jo; Cheng, Wood-Hi

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Proceedings of SPIE - The International Society for Optical Engineering, v 9359, 2015
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Color rendering index thermal stability improvement of glass-based phosphor-converted white light-emitting diodes for solid-state lighting (Open Access)

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan 744, Taiwan)

Source:

International Journal of Photoenergy, v 2014, 2014
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Linear birefringence and dichroism in citric acid coated Fe 3O4 magnetic nanoparticles

Lin, Jing-Fung (Graduate School of Computer Application Engineering, Far East University, No. 49, Zhonghua Road, Xinshi District, Tainan, Taiwan); Tsai, Chun-Chin; Lee, Meng-Zhe

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Journal of Magnetism and Magnetic Materials, v 372, p 147-158, December 2014
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High-color rendering indices performance of glass based phosphor-converted white light-emitting diodes for solid state lighting

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan 744, Taiwan); Cheng, Wei-Chih; Chen, Guan-Hao; Lee, Yu-Chun; Kuo, Cheng Ta; Cheng, Wood-Hi

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 9003, 2014, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XVIII*
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Novel broadband glass phosphors for high CRI WLEDs (Open Access)

Chen, Li-Yin (Department of Photonics, National Sun Yat-Sen University, Kaohsiung 80424, Taiwan); Cheng, Wei-Chih; Tsai, Chun-Chin; Chang, Jin-Kai; Huang, Yi-Chung; Huang, Jhih-Ci; Cheng, Wood-Hi

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Optics Express, v 22, n SUPPL. 3, p A671-A678, 2014
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Thermal-stability comparison of glass- and silicone-based high-power phosphor-converted white-light-emitting diodes under thermal aging

Tsai, Chun-Chin (Department of Photonics, National Sun Yat-sen University, Kaohsiung 804, Taiwan); Cheng, Wei-Chih; Chang, Jin-Kai; Huang, Shun-Yuan; Liou, Jyun-Sian; Chen, Gi-Hung; Huang, Yi-Chung; Wang, Jau-Sheng; Cheng, Wood-Hi

Source:

IEEE Transactions on Device and Materials Reliability, v 14, n 1, p 4-8, March 2014
Database: Compendex
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High-performance glass phosphor for white-light-emitting diodes via reduction of Si-Ce^{3+}: YAG inter-diffusion (Open Access)

Chen, Li-Yin (Department of Photonics, National Sun Yat-Sen University, Kaohsiung 80424, Taiwan); Cheng, Wei-Chih; Tsai, Chun-Chin; Huang, Yi-Chung; Lin, Yen-Sheng; Cheng, Wood-Hi

Source:

Optical Materials Express, v 4, n 1, p 121-128, January 1, 2014
Database: Compendex
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Characteristics of Glass Phosphor with Ce^{3+}:YAG Particle Coated SiO2by Sol-Gel Method

Cheng, Wei-Chih (Department of Photonics, National Sun Yat-sen University, Kaohsiung, Taiwan); Tsai, Chun-Chin; Hu, Shi-Sheng; Chang, Jin-Kai; Lin, Yu-Lun; Chen, Li-Yin; Huang, Yi-Chung; Hsu, Yi-Cheng; Cheng, Wood-Hi

Source:

Optics InfoBase Conference Papers, 2013, *OptoElectronics and Communications Conference and Photonics in Switching, OECC 2013*
Database: Compendex
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Characteristics of glass phosphor with Ce^{3+}:YAG particle coated SiO2 by sol-gel method

Cheng, Wei-Chih (Department of Photonics, National Sun Yat-sen University, Kaohsiung, Taiwan); Tsai, Chun-Chin; Hu, Shi-Sheng; Chang, Jin-Kai; Lin, Yu-Lun; Chen, Li-Yin; Huang, Yi-Chung; Hsu, Yi-Cheng; Cheng, Wood-Hi

Source:

2013 18th OptoElectronics and Communications Conference Held Jointly with 2013 International Conference on Photonics in Switching, OECC/PS 2013, 2013, *2013 18th OptoElectronics and Communications Conference Held Jointly with 2013 International Conference on Photonics in Switching, OECC/PS 2013*
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Study on the optically linear birefringence and dichroism properties of Fe3O4 magnetic nanoparticles

Lin, Jing-Fung (Graduate School of Computer Application Engineering, Far East University, Tainan city 74448, Taiwan); Tsai, Chun-Chin; Lee, Meng-Zhe

Source:

Optik, v 124, n 24, p 6910-6914, December 2013
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19.

Visual susceptibility analysis for solid-state lighting of commercial PC-WLEDs

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan 744, Taiwan); Yue, Cheng-Feng; Lin, Wei-Po; Liao, Jyun-Sian

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 8641, 2013, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XVII*
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Numerical data indexing: Temperature 2.75e+03K
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Performance enhancement of high-temperature glass-based phosphorconverted white light-emitting diodes employing SiO2

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Tainan 744, Taiwan); Yue, Cheng-Feng; Cheng, Wei-Chih; Hu, Shi-Sheng; Hsu, Yi-Cheng; Liao, Jyun-Sian; Cheng, Wood-Hi

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 8641, 2013, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XVII*
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21.

Ultra-high thermal-stable glass phosphor layer for phosphor-converted white light-emitting diodes

Tsai, Chun-Chin (Department of Optoelectronic Engineering, Far East University, Xinshi District, Tainan City 74448, Taiwan); Cheng, Wei-Chih; Chang, Jin-Kai; Chen, Li-Yin; Chen, Ji-Hung; Hsu, Yi-Cheng; Cheng, Wood-Hi

Source:

IEEE/OSA Journal of Display Technology, v 9, n 6, p 427-432, 2013
Database: Compendex
Document type: Journal article (JA)
Numerical data indexing: Temperature 4.23e+02K, Temperature 5.23e+02K, Temperature 6.23e+02K, Temperature 7.23e+02K, Temperature 8.40e+02K

22.

Optical model for novel glass-based phosphor-converted white light-emitting diodes

Chen, Li-Yin (Department of Photonics, National Sun Yat-sen University, Kaohsiung 80424, Taiwan); Chang, Jin-Kai; Wu, Yi-Ru; Cheng, Wei-Chih; Chen, Ji-Hung; Tsai, Chun-Chin; Cheng, Wood-Hi

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IEEE/OSA Journal of Display Technology, v 9, n 6, p 441-446, 2013
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23.

High-temperature (350°C) glass phosphor layer for converted white light-emitting diodes

Cheng, Wood-Hi (Department of Photonics, National Sun Yat-sen University, Kaohsiung 804, Taiwan); Tsai, Chun-Chin; Cheng, Wei-Chih; Chang, Jin-Kai; Chen, Ji-Hung; Hu, Si-Sheng; Chen, Li-Yin; Lin, Min-Ching; Pan, Ching-Jen

Source:

Proceedings of SPIE - The International Society for Optical Engineering, v 8484, 2012, *Twelfth International Conference on Solid State Lighting and Fourth International Conference on White LEDs and*

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Influences of package geometry on color rendering properties of phosphor-converted glass based white light emitting diodes

Chen, Li-Yin (Department of Photonics, National Sun Yat-sen University, Kaohsiung, Taiwan); Chang, Jin-Kai; Wu, Yi-Ru; Cheng, Wei-Chih; Chen, Ji-Hung; Tsai, Chun-Chin; Cheng, Wood-Hi

Source:

Technical Digest - 2012 17th Opto-Electronics and Communications Conference, OECC 2012, p 609-610, 2012, *Technical Digest - 2012 17th Opto-Electronics and Communications Conference, OECC 2012*
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Fabrication of low-temperature Ce^{3+}:YAG doped glass for phosphor-converted white-light-emitting diodes

Cheng, Wei-Chih (Department of Photonics, National Sun Yat-sen University, Kaohsiung, Taiwan); Tsai, Chun-Chin; Chang, Jin-Kai; Huang, Shun-Yuan; Chen, Ji-Hung; Hu, Shi-Sheng; Huang, Yi-Chung; Cheng, Wood-Hi

Source:

Technical Digest - 2012 17th Opto-Electronics and Communications Conference, OECC 2012, p 603-604, 2012, *Technical Digest - 2012 17th Opto-Electronics and Communications Conference, OECC 2012*
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