

Publication List

1. Refereed Journal Papers

(1975 - 1980)

1. C. Y. She and C. L. Pan, "Raman Scattering of High Temperature Phase Transition in KH_2PO_4 ," [*Solid State Comm.* Vol. 17, No. 4, pp. 529 -531, 15 August 1975.](#)
2. Ci-Ling Pan, Chiao-Yao She, W. M. Fairbank, Jr., and K. W. Billman, "Third-Order Nonlinearities in Molecular Hydrogen: Two-photon Resonance Enhance Third-Harmonic Generation and Raman Scattering," [*IEEE J. Quantum Electron.* Vol. QE-13, No. 9, pp. 763 -769, September 1977.,](#) Correction, [*ibid.*, Vol. 15, No. 1, pp.54-54, January 1979.](#)
3. C. L. Pan, J. V. Prodan, W. M. Fairbank, Jr., and C. Y. She, "Detection of individual atoms in helium buffer gas and observation of their real-time motion," [*Optics Lett.* Vol. 5, No. 11, pp. 459 - 461, November, 1980.](#)

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4. A. Yoshihara, C. L. Pan, E. R. Bernstein and J. C. Raich, "Light scattering study of the phase transition in sym-triazine," [*J. Chem. Phys.*, Vol. 76, No. 6, pp. 3218 - 3224, 15 March 1982.](#)
5. Ci-Ling Pan, C. -C. Kuo, T. -C. Hsieh, and T. F. Lei, "Comments on a simple method for single-frequency operation and amplitude and frequency stabilization of an internal-mirror He-Ne laser," [*Jpn. J. Appl. Phys.*, Vol. 24, No. 7, pp. 883 -884, July 1985.](#)
6. Shu-Hsia Chen, Ci-Ling Pan, Y. -M. Chen, and H. -H. Liao, "Quasi-static electric-field-enhanced diffraction effects in a nematic liquid crystal film," [*Opt. Lett.*, Vol. 10, No. 10, pp. 493 - 495, October 1985.](#)
7. Ci-Ling Pan, P. -Y. Jean, C. -C. Kuo, T.-C. Hsieh, and T. F. Lei, "Sensitivity of frequency stability of two-mode internal-mirror He-Ne lasers to misalignment of polarizing optics," [*Appl. Opt.*, Vol. 24, No. 21, pp. 3430 - 3431, November 1985.](#)
8. M. H. Lu, C. -L. Pan, and C. D. Huang, "The Impulse Response of a Resonant Phase Conjugator," [*Chinese J. Phys.*, Vol. 23, No. 4, pp. 253 - 264, Winter 1985.](#)

(1986 - 1990)

9. Ci-Ling Pan, Jahn-Chung Kuo, Tai-Chiung Hsieh, and Tan-Fu Lei, "A comparative study of frequency-and amplitude-stabilized two-mode internal-mirror He-Ne lasers," [*Proc. Natl. Sci. Counc. ROC Pt. A*, Vol. 10, No. 1, pp. 39 - 46, Jan. 1986.](#)
10. Ci-Ling Pan and P. -Y. Jean, "Simultaneous output power and frequency stabilization of a Zeeman He-Ne laser," [*Appl. Opt.* Vol. 25, No. 9, pp. 1375 - 1376, 1 May 1986.](#)
11. Ci-Ling Pan, Shu-Hsia Chen, and H. -H. Liao, "Quasistatic-electric- and optical-field-induced birefringence and nonlinear-optical diffraction effects in a nematic-liquid-crystal film," [*Phys. Rev. A* Vol. 33, No. 6, pp. 4312 - 4318, June 1986.](#)
12. Ci-Ling Pan and P. -Y. Jean, "Stabilization of internal-mirror He-Ne lasers," [*Appl. Opt.* Vol. 25, No. 13, pp. 2126 - 2129, 1 July 1986.](#)
13. Y. H. Lo, Z. H. Zhu, C. L. Pan, S. Y. Wang, and S. Wang, "New technique to detect the GaAs semi-insulating property - cw electro-optic probing," [*Appl. Phys. Lett.* Vol. 50, No. 17, pp. 1125 - 1127, 27 April 1987.](#)
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- "Electro-optic measurement of standing waves in a GaAs coplanar waveguide," *Appl. Phys. Lett.* Vol. **50**, No. 18, pp. 1228 - 1230, 4 May 1987.
15. Ci-Ling Pan and P. -Y. Jean, "Improved Performance of an internal-mirror He-Ne laser ($\lambda = 633$ nm) stabilized by the total power method," *Jpn. J Appl. Phys.* Vol. **26**, No. 8, pp. 1384 - 1385, August 1987.
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 17. Mao-Hong Lu, Wa-Min Chen, and Ci-Ling Pan, "Atomic absorption spectra induced by NaRb in sodium-rubidium vapour," *Appl. Phys. B* Vol. **48**, pp. 365 - 369, 1989.
 18. Z. H. Zhu, Y. H. Lo, M. C. Wu, C. L. Pan, S. Y. Wang, T. K. Gustafson, and S. Wang, "Study of electric field distribution in GaAs materials and devices using electro-optic probing technique," *J. Electrochem. Soc.* Vol. **136**, No. 10, pp. 3115 - 3123, October 1989.
 19. Shyu-Mou Chen, Ru-Pin Pan, and Ci-Ling Pan, "Interferometric measurements of the thickness of nematic liquid crystal films with a free surface," *Appl. Opt.* Vol. **28**, No. 23, pp. 4969 - 4971, 1 Dec. 1989.
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 21. Jahn-Chung Kuo and Ci-Ling Pan, "Buildup of steady-state subpicosecond and femtosecond pulses in a colliding-pulse mode-locked ring dye laser," *Opt. Lett.* Vol. **15**, No. 22, pp. 1297 - 1299, 15 November 1990.
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23. Pie-Yau Chien and Ci-Ling Pan, "Fiber- optic Gyroscopes Based on Polarization Scrambling," *Opt. Lett.* Vol. **16**, No. 3, pp. 189 - 190, Feb. 1, 1991.
24. Pie-Yau Chien and Ci-Ling Pan, "Scale-factor-stabilized Fiber-optic Gyroscope Based on a Spectrum-broadened Laser-diode Source," *Opt. Lett.* Vol. **16** No. 6, pp. 426 - 428, March 15, 1991.
25. Pie-Yau Chien and Ci-Ling Pan, "Deep Phase-modulation Approach to an Open-loop Fiber Optic Gyroscope," *IEEE Photon Technol. Lett.* Vol. **3**, No. 3, pp. 284 - 286, March, 1991.
26. Pie-Yau Chien and Ci-Ling Pan, "A Thermal Phase-Locked Loop for Frequency Stabilization of Internal-Mirror He-Ne Lasers," *Rev. Sci. Instrum.* Vol. **62** No. 4, pp. 933 - 935, April, 1991.
27. Ru-Pin Pan, Shyu-Mou Chen and Ci-Ling Pan, "Self-bending and Asymmetric Spatial Self-phase Modulation Effects in Nematic Liquid-Crystal Films," *J. Opt. Soc. Am. B* Vol. **8** No. 5, pp. 1065-1071, May, 1991.
28. Yi-Jyh Lin and Ci-Ling Pan, "Precision Displacement Measurement by Active Laser Heterodyne Interferometry," *Appl. Opt.* Vol. **30** No. 13, pp. 1648 - 1652, May, 1991.
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 33. Jahn-Chung Kuo and Ci-Ling Pan, "Construction and Characterization of a Femtosecond Colliding-pulse Mode-locked (CPM) Ring Dye Laser," *Proc. Natl. Sci. Counc. ROC(A)* Vol. **15**, No. 4, pp. 300 - 307, July, 1991.
 34. Hsiao-Hua Wu, C.-S. Chang, and Ci-Ling Pan, "Electro-Optic Sampling of Optoelectronically Phase-locked 10.0 GHz Microwave Signals Using Semiconductor Laser Diodes," *Electron Lett.* Vol. **27**, No. 18, pp. 1622 - 1623, Aug. 29, 1991.
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(2001 - 2005)

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487. Ci-Ling Pan, "Progress in Short-Pulse Yb-doped Fiber Oscillators and Amplifiers," **OSA Traveling Lecture**, Harbin Institute of Technology, Sept. 13, 2014, Harbin, China.
488. Ci-Ling Pan, "Liquid Crystal THz Optics: a tutorial overview," **OSA Traveling Lecture**, Nanjing University, Sept. 16, 2014, Nanjing, China.
489. Ci-Ling Pan, "Recent advances in millimeter-wave photonic wireless links for very high data rate communication," **invited talk**, Wuhan Optoelectronics Forum, Oct. 24, 2014, Wuhan, China.
490. Chen-Yu Cheng, Chan-Shan Yang, Shuo-Hsien Cheng, Ci-Ling Pan, "Broadband Terahertz Emission by Two-color Laser Induced Filament in Isotropic Media," Optics & Photonics Taiwan, the International Conference (OPTIC), National Chung Hsing University, Taichung, Taiwan, paper 2014-Thu-P0301-P004, December 4-5, 2014.
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497. Chen-Yu Cheng, Chan-Shan Yang, Ci-Ling Pan, "Terahertz Generation via Dual-color Competition of Optical Rectification," The annual meeting of the Physical Society of Republic of China (PSROC), National Tsing Hua University, Hsinchu, Taiwan, paper 2015-Wed-P1-OE-087, January 28-30, 2015.
498. Shao-Ting Wu, Chan-Shan Yang, Ci-Ling Pan, "Spectral Shaping and Adaptive Control of Terahertz Radiation," *ibid.*, paper 2015-Wed-P1-OE-088, January 28-30, 2015.
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506. Chan-Shan Yang, Chen-Yu Cheng, Ci-Ling Pan, "利用傾斜脈衝前緣泵浦高摻雜濃度鈮酸鋰晶體產生之兆赫波輻射," presented at the annual meeting of the Physical Society of Republic of China (PSROC), National Sun Yat-sen University, Kaohsiung, Taiwan, O3-OE 05, January 25-27, 2016.
507. Chia-Hsun Wang, Yuan Chun Lu, Chan-Shan Yang, Tzu-Yuan Huang, Ru-Pin Pan, and Ci-Ling Pan, "The Application Of Compressed Sensing With Spatial Terahertz Modulator," Annual Meeting of the Physical Society of the Republic of China (Taiwan), Tankang University, Taipei, Taiwan, paper 2017- P1-OE-061, Jan 16-18, 2017.
508. Tzu-Yuan Huang, Po-Hsun Chen, Chan-Shan Yang, Lung-Hsing Hsu, Tsung-Sheng Kao, Chien-Chung Lin, and Ci-Ling Pan, "The Enhancement of Terahertz Radiation in the Pyramid Patterned InN," *ibid.*, paper 2017- P1-OE-060, Jan 16-18, 2017.
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 511. Ci-Ling Pan, “Fiber-laser-generated Noise-like-pulses and their applications,” **plenary talk**, presented at the Annual Meeting of the Physical Society of Taiwan, January 24-26, 2018, National Taiwan University, Taipei, Taiwan.
 512. C. H. Lin, R. H. Chou, Y. C. Hong, Osamu Wada, and C. L. Pan, “Analysis of Millimeter-Wave Spectral Power of Photonic Transmitter Enhanced by Using Spectral Line-by-Line Synthesis,” poster P1-OE-019., 2019 Annual Meeting of the Physics Society of Taiwan, Hsinchu, Jan. 23-25, 2019.
 513. Cho-Yen Tsai, Shi-Ying Kang ,Chan-Shan Yang, Lung-Hsing Hsu, Tsung-Sheng Kao, Osamu Wada,Ci-Ling Pan, “Carrier Dynamics of InN Films Made by Metal Organic Chemical Vapor Deposition,”*ibid.*, poster P1-OE-092.
 514. Anup Kumar Sahoo, Chan-Shan Yang, Chun-Ling Yen, Deng Yun Zheng, Hung Chun Lin, Yi-Hsin Lin, Osamu Wada,“Liquid Crystal based Terahertz Phase Shifter using Pristine PEDOT: PSS Transparent Conducting Film,” *ibid.*, poster P1-OE-063.
 515. Pohsun Wu, Pohsun Chen, Chan-Shan Yang, Haiwei Du, Xiao-Yu Peng, Ci-Ling Pan, “Manipulation of Terahertz Radiation from Air Plasma Excited by multi-color femtosecond Pulses,” *ibid.*, poster P1-OE-018.
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 518. Yuan-He Teng, Yun-Chan Tsai, Hsiao-Hua Wu and Ci-Ling Pan, “Automatic generation of noise-like pulses from all-normal dispersion fiber laser by using two-photon excitation currents,” *ibid.*, poster P2-OE-004.
 519. Yu-Cheng Hong, Cheng-Han Lin, Chao-Kai Wang , Hsiao-Hua Wu , Ci-Ling Pan, “Modelling of terahertz pulse generation by noise-like pulse,” *ibid.*, poster P1-OE-016.
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 521. Anup Kumar Sahoo, Wei-Chen Au, Chien-Ju Lee, Wen-Hao Chang, Ci Ling Pan, “Study of the Surface, Sub-Surface and Photo-luminescence Properties of GaAs substrates by modifying with Different Surface Treatment Methods”, P1-SN-007, Annual Meeting of the Physical Society of Taiwan, Pingtung, Taiwan, R.O.C., February 5-7, 2020.
 522. Wei-Chen Au, Anup Kumar Sahoo, Ci Ling Pan, “Investigation on Si ion implantation Range in GaAs substrates by Theory, Simulation and Experiment”, P1-SN-006, *ibid.*
 523. Po-Hsun Wu, Jia-Ming Mai, Anup Kumar Sahoo, Ci-Ling Pan, “Terahertz time domain transmission spectroscopic studies of the effects of ion implantation and rapid thermal annealing on semi-insulating Gallium Arsenide”, P1-OE-015, *ibid.*
 524. Shi-Ying Kang, Po-Hsun Wu, Ci-Ling Pan, “Optically-excited THz emission from indium-tin-oxide / semi-insulating gallium arsenide interface”, P1-OE-025, *ibid.*

International Conference Papers (2015-present)

525. Chan-Shan Yang, Ru-pin Pan and Ci-Ling Pan, “Liquid Crystal THz Photonics with

- Indium Tin Oxide nanowhiskers and graphene as functional electrodes,” **invited talk** presented at OE128: Emerging Liquid Crystal Technologies X, part of Photonics West, February 10, 2015, San Francisco, CA, USA., Proc. SPIE 9384, Emerging Liquid Crystal Technologies X, 93840Q (March 11, 2015); [doi:[10.1117/12.2079324](https://doi.org/10.1117/12.2079324)]
526. Jin-Wei Shi; Ci-Ling Pan; C.-B. Huang; Jhih-Min Wun; Hao-Yun Liu; Yu-Lun Zeng, “High-Power THz-Wave Generation by Using Ultra-Fast (315 GHz) Uni-Traveling Carrier Photodiode with Novel Collector Design and Photonic Femtosecond Pulse Generator,” paper M3C.6, presented at Optical Fiber Communication Conference and Exposition (OFC), 22-26 March 2015 at the Los Angeles Convention Center, Los Angeles, California, USA, published as Optical Fiber Communication Conference OSA Technical Digest (online) (Optical Society of America, 2015), paper M3C.6 . [doi:[10.1364/OFC.2015.M3C.6](https://doi.org/10.1364/OFC.2015.M3C.6)]
 527. P. F. Liu ; J. Y. Sung ; C. W. Chow ; C. H. Yeh ; Gary Chou and C. L. Pan, " Low bending loss square-core optical fiber for optical communication ", presented at Micro-structured and Specialty Optical Fibres IV, 15–16 April 2015, Prague, Czech Republic Proc. SPIE 9507, 950706 (May 7, 2015);[doi:[10.1117/12.2178528](https://doi.org/10.1117/12.2178528)]
 528. Yi-Jing You, Chengming Wang, Ping Xue, Alexey Zaytsev, Ci-Ling Pan, “Supercontinuum Generated by Noise-like Pulses for Spectral-domain Optical Coherence Tomography,” presented at Conference on Lasers and Electro-Optics, 10–15 May 2015, San Jose, California, United States; published in OSA Technical Digest (online) (Optical Society of America, 2015), paper JW2A.94. [DOI:[10.1364/CLEO_AT.2015.JW2A.94](https://doi.org/10.1364/CLEO_AT.2015.JW2A.94)]
 529. Chih-Hsuan Lin, Chan-Shan Yang, Alexey Zaytsev, Ci-Ling Pan, “Multi-shots ablation of polymethylmethacrylate by two-color femtosecond synthesized waveform,” *ibid.*, paper STh4M.7. [doi:[10.1364/CLEO_SI.2015.STh4M.7](https://doi.org/10.1364/CLEO_SI.2015.STh4M.7)]
 530. Mark Green, Tsing-Hua Her, Chih-Hsuan Lin, and Ci-Ling Pan, “Control of Absorption in Femtosecond Laser-Dielectric Interaction with the Polarization of a Seeding Pulse,” Conference on Lasers and Electro-Optics, 10–15 May 2015, San Jose, California, United States; published in OSA Technical Digest (online) (Optical Society of America, 2015),, paper STh4M.8. [doi:[10.1364/CLEO_SI.2015.STh4M.8](https://doi.org/10.1364/CLEO_SI.2015.STh4M.8)]
 531. Wei-Jan Chen, Chun-Yi Tsai, Chieh-Chuan Chen, Chan-Shan Yang, and Ci-Ling Pan, “Coherent control of nonlinear frequency conversion by a waveform-controlled multi-color laser field,” **invited talk**, presented at the 2015 Chiba Workshop, Chiba, Japan.
 532. Ci-Ling Pan, “Selected topics on Photonics-Technologies-enabled THz Wireless Communications,” **invited talk**, presented at the 2015 Cross-Strait Forum on Optoelectronics, June14-16, 2015, Wuhan, China.
 533. Ci-Ling Pan, “The Academic Career: Challenges and Payoffs,” **OSA Traveling Lecture**, presented at the Annual Meeting of OSA/SPIE Student Chapters in China & Innovation Venture Competition (AMSC-OSA/SPIE) OSA/SPIE 中國學生學術年會暨創新創業大賽, June 15-18, Wuhan, China.
 534. Ci-Ling Pan, “TCOs for THz Applications and Photonics-enabled THz Data Links and Radar,” **invited talk**, presented at The 8th International Photonics and OptoElectronics Meetings (POEM 2015), OSA Topical Meeting on Optoelectronic Devices and Integration (ODEI), June 16-19. Wuhan, China.
 535. Ci-Ling Pan, Chan-Shan Yang, and Ru-Pin Pan, “Transparent Conducting Oxides: Terahertz properties and applications,” **invited talk**, presented at the Joint Symposium of the 6th International Symposium on Terahertz Nanoscience (Teranano-6)and the 3rd Symposium on Microwave/THz Science and Applications (MTSA 2015), June 30 - July 4, 2015, Okinawa, Japan.
 536. C. S. Yang, C. C. Tang, J. C. Chen, and C. L. Pan, “Terahertz studies and Application of Monolayer and Bilayer Graphene,” *ibid.*, paper B3-6.
 537. Ci-Ling Pan, THz spectroscopic studies of indium-tin-oxide (ITO) nanomaterials

- (and other TCOs),” **plenary talk**, presented at Light Conference: International Conference on Micro/Nano Optical Engineering – Taiwan, Tainan, Taiwan, Aug. 10-14, 2015.
538. Ci-Ling Pan, Alexey Zaytsev, You Yi-Jing, Chih-Hsuan Lin, “iber-laser-based Noise-like-pulses for Supercontinuum Generation and Application to Optical Coherence Tomography,” **invited talk**, presented at The 8th International Conference on Advanced Infocomm Technology (ICAIT 2015), Hangzhou, China, Oct. 25-27, 2015.
 539. Ci-Ling Pan, “Nanostructured Transparent Conducting Oxides: Characteristics and Applications in the THz Frequency Range,” ASu2-3D.1, **Tutorial** presented at ACP 2015, Asia Communications and Photonics Conference, Hong Kong, Nov. 19-23, 2015.
 540. Fang-Cih Shih, Wei-Che Hu, Po-Hsun Wu, Chan-Shan Yang, Ru-Pin Pan, Peichen Yu, Ci-Ling Pan, “Terahertz Achromatic Quarter Waveplate based on Liquid-Crystal Devices,” 2015 Taiwan THz Science and Technology Workshop, Hsinchu, Taiwan, paper 2015-FRI-1, Dec 4-6 2015.
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