



## Molecular Crystals and Liquid Crystals

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### Brief Report on the 1981 Chinese Liquid Crystal Conference

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## Brief Report on the 1981 Chinese Liquid Crystal Conference

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The Chinese Liquid Crystal Conference was held on Oct. 20-25, 1981 at Guilin. It was organized by the Chinese Liquid Crystal Society and attended by about 120 delegates and guests. The president of the Society, Professor Xie Yuzhang (Yü-Chang Hsieh), delivered the opening address. He reviewed the activities of the Society since its establishment on July 18, 1980 at Beijing. The Society had about 100 members when it was founded. Since then many other scientists have joined the Society. The secretary general, Dr. Lin Lei, summarized the conference and closed the meeting with an announcement of the decisions voted by the council of the Society. During the week long meeting, about 80 papers were presented at different sessions. The following is a partial list of the titles and authors† of the contributed papers.

### PHYSICS

1. Zhang Shulin: Study of the Raman Scattering of Liquid Crystals Near the Phase Transition Point.
2. Xie Yuzhang and Ruan Lizhen: Measurements of the Pitch of

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†For the affiliations and addresses of the authors, see Lin Lei, Liquid Crystal Research in China: 1970-1982, *Mol. Cryst. Liq. Cryst.*, **91**, 77 (1983).

- Two Mixtures of CC: An Empirical Formula for the Temperature Dependence of the Pitch of Cholesterics.
3. Zhou Hetien *et al.*: Behavior of Liquid Crystals Near the Phase Transition Point Under Strong Magnetic Field.
  4. Chia-Wei Woo and Shen Juelian: I-N Transition in External Field.
  5. Shu Changqing, Lin Lei and Wang Liangyu: I-N-A Phase Diagrams.
  6. Chen Xiaoying and Xie Yuzhang: Variation of the Tilt Angle With the Thickness of Obliquely Deposited SiO Film.
  7. Lin Lei and Shu Changqing: A New Explanation of the Odd-Even Effect.
  8. Zhu Guozhen: Experiments on Solitons in Nematics.
  9. Lin Lei and Shen Juelian: Solitons in Liquid Crystals.
  10. Cheng Bingying *et al.*: Ultrasonic Waves Near the Sm A- Sm B Phase Transition.
  11. Cheng Bingying, B. K. Sarma, I. D. Calder, J. B. Ketterson and S. Bhattacharya: Ultrasonic Study of Wave Propagation in Smectic A.
  12. Shu Changqing and Lin Lei: Correlation Function and Cotton-Mouton Effect in Homologous Series of Liquid Crystals.
  13. Lin Lei and Shu Changqing: Apparent Gap Exponent of Liquid Crystals.
  14. Lin Lei: Light Scattering of Liquid Crystal Homologous Series.
  15. Zhang Heyi and He Xuehua: Internal Field Constants and Order Parameters of Nematics and Smectics.
  16. Liu Jiagang and Lin Lei: Pressure Effects of Nematics.
  17. Huang Yun and Lin Lei: Pretransitional Effect of Nematic Mixtures.
  18. Lin Lei: A New Flexoelectric Coefficient.
  19. Ouyang Zhoncan and Xie Yuzhang: Elastic Constants of 7CB and MBBA.
  20. Xie Yuzhang, Ouyang Zhongcan and Lin Lei: Electric Field Effect on the Elastic Constants of Nematics: Macroscopic Theory.
  21. Wang Xinyi and Lin Lei: Electrohydrodynamic Instability of Nematics Under Inclined Electric Field.

## CHEMISTRY

22. Chen Shouxi, Long Chengfen and Jin Yongze: Growth Mechanism of Poly-C-Phenylene Methylamids.

23. Long Chengfen and Chen Shouxi: Phase Change of P-Aromatic Polyamide.
24. Li Guozhen, Xiao Yuxiang and Zhang Wenjuan: The Synthetic Properties and Applications of Liquid Crystals as Stationary Phase in Gas Chromatography.
25. Li Yuzeng, Bai Guangmei and Dong Shuzhen: Study of Mixtures of Esters and Phenyl Cyclohexane by DSC.
26. Li Guozhen, He Yihua, Wang Wei and Sha Xin: Use of Liquid Crystals as Stationary Liquids in Gas Chromatography.
27. Zhang Shengqing: Stability of PPTA/H<sub>2</sub>SO<sub>4</sub>.
28. Qiao Jieping: Analysis of Polycyclic Aromatic Hydrocarbon BPhBT.

## BIOLOGY

29. Guo Yu *et al.*: Liquid Crystalline States in Ascites Cancer of Animals.
30. Zhang Shuhui and Lu Zhenping: Smectic Characteristics of Cornea.
31. Cao Lianxin *et al.*: Preliminary Studies on Amphiphilic Lyotropic Systems.
32. Sun Jianmin: Electron Microscopical Observations on the Liquid Crystal State of the Lipid Droplets in the Ovary of Tilapia Nilotica.
33. Zheng Zhengjun *et al.*: Studies on Electric Pulses of Biomembranes.

## APPLICATION

34. Xie Shuyun, Jin Zhaoting and Peng Chuancai: Measurement of the Energy of Microwave by Liquid Crystal.
35. Chen Qimei, Tong Shousheng, Ruan Liang and Zhao Jingan: Eyeglasses with Variable Grayness.
36. Wu Dunfa: Driving Circuit for Liquid Crystal Matrices.
37. Chen Qimei, Zhao Jinagan, Tong Shousheng and Ruan Liang: Automatic Optical Control System for Laser Range Finder.
38. Huang Jiahua and Ge Hai: Fast Response Liquid Crystal Electro-optic Switch.
39. Hong Xijun, Feng Zuru, Zhao Xinyin, Zhou Dong, Liu Chunyi and Liu Zhujin: Guest-Host Type Liquid Crystal Color Display.

40. Hong Xijun, Ge Mingjuan, Zhao Xinyin and Liu Zhujin: A New Type of Liquid Crystals With Negative Dielectric Anisotropy.
41. Huang Jiahua and Ge Hai: Thermal Fluctuations in Nematics.
42. Zhang Hongjun, Dai Jianhua, Yang Junhui and Gao Cunxiu: Bistable Liquid Crystal Electrooptic Modulator.
43. Dai Jianhua and Zhang Hongjun: Superlinear Liquid Crystal Electrooptic Modulator and Its Applications.
44. Hong Xijun, Tang Shumin, Kang Zhen, Liu Chunyi, Ge Mingjuan and Liu Zhujin: Photoconducting Liquid Crystal Optical Valve.
45. Yang Junhui, Gao Cunxiu and Zhang Hongjun: Organic Photoconductor: Liquid Crystal Spatial Optical Modulator.