

Ping Li
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CAREER SUMMARY:

Retired Chemist | Analytical Chemistry | Material Sciences

With over 40 years of experience in analytical chemistry and material sciences, I am a seasoned chemist who has made significant contributions across various fields.

I hold a PhD in Chemistry and have specialized in separation sciences and material characterization. My work has spanned diverse areas, including: Small Molecules, Natural Products, Energetic Materials, and Polymers. I possess in-depth knowledge of various resins, including: Phenolic Resin, Epoxy Resin, Amino Resin, and Energetic Materials. Special Focus on Hydroxyl-Terminated Polybutadiene (HTPB), Carboxyl-Terminated Polybutadiene (CTPB), PBAN, and other resins. I'm also familiar with the characterization of Polyamide (PA) and Polyurethane (PU). During my tenure as part of the team at Thiokol Corporation, Alliant Techsystems Inc. (ATK), Orbital ATK, and Northrop Grumman in North America, I contributed to numerous exciting projects. My work there was both fulfilling and impactful. Currently, I'm enjoying retirement and planning for my official retirement in 2024. I eagerly anticipate exploring different places around the world during this time. In my free time, I cherish catching up with old friends and exploring new hobbies. Feel free to connect with me!

李平 退休化学家 | 分析化学 | 材料科学

在分析化学和材料科学领域拥有超过 40 年的经验，我是一位经验丰富的化学家，为各个领域做出了重大贡献。以下是我的背景概述：我拥有化学博士学位，专攻分离科学和材料表征。我的工作涵盖了多个领域，包括：小分子，天然产物，爆炸性材料，高分子材料。我深入了解各种树脂，包括：酚醛树脂，环氧树脂，氨基树脂，爆炸性材料。特别关注羟基终止的聚丁二烯（HTPB，羧基终止的聚丁二烯（CTPB，PBAN 等树脂。我还熟悉聚酰胺（PA）和聚氨酯（PU）的表征。在 Thiokol Corporation、Alliant Techsystems Inc.（ATK）、Orbital ATK 和 Northrop Grumman 的团队中，我为众多激动人心的项目做出了贡献。我的工作既充实又有影响力。目前，我正在享受退休生活，并计划于 2024 年正式退休。我热切期待在此期间探索世界各地。个人兴趣：闲暇时间里，我喜欢与老朋友聚会，探索新的爱好。欢迎与我联系！

EDUCATION:

Chinese Academy of Sciences of Lanzhou Institute of Chemical and Physics (中科院兰州化物所) and Shanghai Institute of Materia Medica (中科院上海药物所), 1984 to 1989

PhD of Analytical Chemistry (HPLC Drug Analysis and Pharmacokinetics)

Peking University (北京大学), 1978 to 1982

Bachelors of Science in Chemistry

EMPLOYMENT HISTORY:

2018 to 2024	Northrop Grumman Corporation, Innovation Systems Brigham City, UT Sr. Manager of R&D Chemistry and Analytical Research
2014 to 2018	Orbital ATK, Flight Systems Group Brigham City, UT Sr. Manager of R&D Chemistry and Analytical Research
2014 to 2006	Alliant Techsystems Inc. (ATK), Launch Systems Groups Brigham City, UT Sr. Manager in R&D and Analytical Laboratories
2002 to 2006	Cytec Industries Inc. Stamford, CT Principle Research Chemist at Analytical Laboratories
1997 to 5/2002	ATK Thiokol Corporation Brigham City, UT Principal Scientist at Analytical Laboratories
1/1995 to 10/1997	FFFractionation LLC. Salt Lake City, UT Application and Instrument Development Scientist
10/1990 to 1/1995	University of Utah, Department of Chemistry Salt Lake City, UT Postdoctoral Research Fellow
11/1989 to 9/1990	Lanzhou Institute of Chemical and Physics Lanzhou, China Analytical Laboratory Scientist
1982 to 1984	Lanzhou Institute of Glaciology and Cryopedology Lanzhou, China Analytical Laboratory Scientist

PUBLICATIONS:

Separation and Detection of 2,2'-Methylenebis (4-Methyl-6-T-Butylphenol) (AO2246) and its Oxidation Products in HTPB and CTPB. **Ping Li**, David B. Russell, Ingvar A. Wallace and Michael O. Killpack, JANNAF Journal of Propulsion and Energetics, Volume 7, Number 1 (2016).

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Ping Li and J. C. Giddings, Isolation and Measurement of Colloids in Human Plasma by Membrane-Selective Flow FFF: Lipoproteins and Pharmaceutical Colloids, *J. Pharmaceutical Sciences*, 85, 895 (1996).

M-K. Liu, **Ping Li**, and J. C. Giddings, Rapid Protein Separation and Diffusion Coefficient Measurement By Frit-inlet Flow FFF, *Protein Science*, 2, 1520 (1993).

J. C. Giddings, M. A. Benincasa, M-K. Liu, **Ping Li**, Separation of Water Soluble Synthetic and Biological Macromolecules by Flow FFF, *J. Liq. Chromatogr.* 15, 1729 (1992).

Ping Li et al., Studies on The Preparative Capability of The Horizontal Flow -Through Coil Planet Centrifuge and HPLC in The Separation of Polar Compounds from *Oxytropis o.* Bunge, *J. Chromatogr.*, 538, 219 (1991).

Ping Li et al, Study on Natural Compounds from Seed of *Oxytropis o.* Bunge, *Acta Chemica Sinica*, 49(12), 1510 (1991).

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Ping Li, "High-performance liquid chromatography in applications. (1) Application of HPLC in Phytochemistry," *Sepu* 8(5) 308 (1990).

Ping Li et al., Determination of Vincamine in Vica-minor and Vica-major by RP-HPLC with photodiode Array detector, *Sepu*, 8, 139 (1990).

Ping Li and W. Yu, Application of Photodiode Array Detector in Analysis of Vincamine by HPLC, *Bulletin of Analysis and Testing*, 10, 42 (1990).

Ping Li et al, The Extraction and Preparation of Vincamine in Vica minor, Chinese Analytical Chemistry, 18 (11), (1990)

Ping Li and W. Yu, Separation of Alkaloids on Columns of Silica Gel and ODS, *Bulitin of Analysis and Testing*, 9(2), 1, (1990).

W. Yu, **Ping Li**, and R-B. Zhang, HPLC of Biopolymers, Pharmaceuticals and Natural Products, *J. Chromatogr. Sci.*, 27, 626 (1989).

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"The Seasonal Variation of Deuterium Content in Underground Water by GC/MS" by X. Zhou and **Ping Li** in *Huaxue Tongbao* (Chemistry Bulletin)