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### **主要经历:**

1987 年于沈阳药科大学获理学硕士学位并留校任教；1998 年获理学博士学位，之后在军事医学科学院进行博士后研究工作，2001 年任教于北京理工大学。2006-2007 年获国家留学基金资助在美国德克萨斯大学 Armstrong 教授课题组作访问学者。主讲过十余门本科生和研究生课程；已指导培养研究生五十余名。

### **研究方向:**

1. 新型色谱固定相色谱分离性能的研究及应用
2. 复杂样品分离富集新材料和新方法的研究及应用
3. 药物质控分析方法的研究及应用等

### 承担课题:

作为项目负责人主持完成科研项目二十多项(包括国家自然科学基金项目、科技部项目、国家食品药品监督管理局项目、新药研究项目等)。目前在研课题有国家自然科学基金面上项目、药物质控分析项目等。

### 主要成果:

目前作为主要作者已在色谱分析领域权威期刊上发表论文百余篇,其中 SCI 论文七十余篇。出版学术专著《气相色谱分析和应用》(科学出版社, 2012); 主编《定量化学分析》(第一版、第二版)(北京理工大学出版社, 2009; 2017); 参编《药物分析》(第一版、第二版)(清华大学出版社, 2012; 2017); 参编《仪器分析实验》(北京理工大学出版社, 2017)等。主讲的课程“色谱分析”列为研究生骨干课程,“分析化学 B”列为校级精品课程。

### 近年发表的部分论文:

1.  $\pi$ -Extended triptycene-based material for capillary gas chromatographic separations, *Anal. Chim. Acta*, 988 (2017) 121-129
2. High-resolution performance of permethyl pillar[5]arene stationary phase for gas chromatographic separations, *J. Chromatogr. A*, 1496 (2017) 115-121.
3. Graphitic carbon nitride nanofibers in seaweed-like architecture for high-resolution gas chromatographic separations, *J. Chromatogr. A*, 1496 (2017) 133-140.
4. Star-shaped oligothiophene-functionalized truxene material as the stationary phase for capillary gas chromatography, *J. Chromatogr. A*, 2017, in press
5. Iptycene-based stationary phase with three-dimensional aromatic structure for highly selective separation of H-bonding analytes and aromatic isomers, *J. Chromatogr. A*, 1445 (2016) 135-139

6. Features of a new truxene-based stationary phase in capillary gas chromatography for separation of some challenging isomers, *J. Chromatogr. A*, 1454 (2016) 114-119
7. Graphitic carbon nitride as high-resolution stationary phase for gas chromatographic separations, *J. Chromatogr. A*, 1454 (2016) 107-113
8. Graphene-ZIF8 composite material as stationary phase for high-resolution gas chromatographic separations of aliphatic and aromatic isomers, *J. Chromatogr. A*, 1460 (2016) 173-180
9. Performance and selectivity of dicyanuric-functionalized polycaprolactone as stationary phase for capillary gas chromatography, *J. Chromatogr. A*, 1466 (2016) 129-135
10. High-resolution separation performance of poly(caprolactone)diol for challenging isomers of xylenes, phenols and anilines by capillary gas chromatography, *J. Chromatogr. A*, 1466 (2016) 148-154
11. Performance of graphene sheets as stationary phase for capillary gas chromatographic separations, *J. Chromatogr. A*, 1399 (2015) 74-79
12. Cyclotrimeratrylene as a new-type stationary phase for gas chromatographic separations of halogenated compounds and isomers, *J. Chromatogr. A*, 1404 (2015) 89-94
13. Cucurbit[6]uril in combination with guanidinium ionic liquid as a new type of stationary phases for capillary gas chromatography, *J. Chromatogr. A*, 1334 (2014) 112-117
14. Cucurbit[n]urils as a new class of stationary phases for gas chromatographic separations, *J. Chromatogr. A*, 334 (2014) 139-148
15. Separation performance of cucurbit[8]uril and its coordination complex with cadmium (II) in capillary gas chromatography, *J. Chromatogr. A*, 1343 (2014) 167-173
16. Calix[4]pyrroles: highly selective stationary phases for gas chromatographic separations, *J. Chromatogr. A*, 1362 (2014) 231-240

17. High-resolution separation performance of cucurbit[7]uril in ionic liquid-based sol-gel coating as stationary phase for capillary gas chromatography, *J. Chromatogr. A*, 1371 (2014) 237-243
18. Monolithic graphene fibers for solid-phase microextraction, *J. Chromatogr. A*, 1320 (2013) 27- 32
19. Dithienyl benzothiadiazole derivatives: a new type of stationary phases for capillary gas chromatography, *J. Chromatogr. A*, 1321 (2013) 109-118
20. Separation performance of guanidinium-based ionic liquids as stationary phases for gas chromatography, *J. Chromatogr. A*, 1276 (2013) 112-119