姓 名: 高希珂

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性 别: 男

职 称: 研究员

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简历：

高希珂，中国科学院上海有机化学研究所研究员，课题组长，博士生导师，隶属于中国科学院有机功能分子合成与组装化学重点实验室。2008于中国科学院化学研究所获理学博士学位，同年10月进入上海有机所工作，历任副研究员和研究员。2011年入选中科院青年创新促进会首批会员和上海市青年科技启明星计划，2015年获得优秀青年科学基金资助，2019年入选上海市优秀学术带头人，2022年获得国家杰出青年科学基金资助。

研究方向：

非苯芳烃化学（薁化学）

有机光电功能材料

有机生物功能材料

专家类别：研究员

职务：课题组长

获奖及荣誉：

中科院卢嘉锡青年人才奖（2013）

中科院青年创新促进会首批优秀会员（2015）

中科院上海分院青年五四奖章（2015）

上海市科技系统青年五四奖章（2016）

上海市自然科学二等奖（2020，第一完成人）

Thieme Chemistry Journal Award （2021）

代表论著：

Hanshen Xin, Bin Hou, Xike Gao.\* Azulene-based π-functional materials: design, synthesis, and applications. Acc. Chem. Res. 2021, 54, 1737-1753.

Chao Duan, Jianwei Zhang, Junjun Xiang, Xiaodi Yang,\* Xike Gao.\* Azulene-Embedded [n]Helicenes (n = 5, 6 and 7). Angew. Chem. Int. Ed. 2022, 61, e202201494.

Bin Hou, Zhuofan Zhou, Cui Yu, Xiao-Song Xue, Jianwei Zhang, Xiaodi Yang, Jing Li, Congwu Ge, Jingtao Wang,\* Xike Gao.\* 2,6-Azulene-based Homopolymers: Design, Synthesis, and Application in Proton Exchange Membrane Fuel Cells. ACS Macro Lett. 2022, 11, 680-686.

Hanshen Xin, Jing Li, Ru-Qiang Lu, Xike Gao,\* Timothy. M. Swager.\* Azulene–Pyridine-Fused Heteroaromatics. J. Am. Chem. Soc. 2020, 142, 13598-13605.

Hanshen Xin, Jing Li, Xiaodi Yang, Xike Gao.\* Azulene-Based BN-Heteroaromatics. J. Org. Chem. 2020, 85, 70-78.

Honglei Gao,# Congwu Ge,# Bin Hou, Hanshen Xin, Xike Gao.\* Incorporation of 1,3-Free-2,6-Connected Azulene Units into the Backbone of Conjugated Polymers: Improving Proton Responsiveness and Electrical Conductivity. ACS Macro Lett. 2019, 8, 1360-1364. (# Co-first authors)

Hanshen Xin, Congwu Ge, Xuechen Jiao, Xiaodi Yang, Kira Rundel, Christopher R. McNeill, Xike Gao.\* Incorporation of 2,6-Connected Azulene Units into the Backbone of Conjugated Polymers: Towards High-Performance Organic Optoelectronic Materials. Angew. Chem. Int. Ed. 2018, 57, 1322-1326.

Hanshen Xin, Congwu Ge, Xiaodi Yang, Honglei Gao, Xiaochun Yang, Xike Gao.\* Biazulene diimides: a new building block for organic electronic materials. Chem. Sci. 2016, 7, 6701-6705.

Fengjiao Zhang,# Yunbin Hu,# Torben, Schuettfort, Chong-an Di,\* Xike Gao,\* Christopher R McNeill,\* Lars Thomsen, Stefan C B Mannsfeld, Wei Yuan, Henning Sirringhaus, Daoben Zhu.\* Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-channel Organic Thin-film Transistors with Mobility of up to 3.50 cm2V-1s-1. J. Am. Chem. Soc. 2013, 135, 2338-2349. (# Co-first authors)

Xike Gao,\* Chong-an Di,\* Yunbin Hu, Xiaodi Yang, Hongyu Fan, Feng Zhang, Yunqi Liu, Hongxiang Li, Daoben Zhu. Core-expanded naphthalene diimides fused with 2-(1,3-dithiol-2-ylidene)malonitrile groups for high-performance, ambient-stable, solution-processed n-channel organic thin film transistors. J. Am. Chem. Soc. 2010, 132, 3697-3699.

Name: Gao Xike

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Resume:

Gao Xike, a Researcher, Project Leader, and Doctoral Supervisor of the Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences. He is affiliated with the Key Laboratory of Synthetic and Self-assembly Chemistry for Organic Functional Molecules of Chinese Academy of Sciences. He obtained a Ph.D. in Science from the Institute of Chemistry, Chinese Academy of Sciences in 2008 and joined the Shanghai Institute of Organic Chemistry in October, 2008, holding positions as Associate Researcher and Researcher. In 2011, he was selected as one of the first members of the Youth Innovation Promotion Association CAS and the Shanghai Rising-Star Program of Youth Scientific and Technological Talents. In 2015, he received funding from the National Excellent Young Scientists Fund Project, in 2019, he was selected as an Outstanding Academic Leader in Shanghai, and in 2022, he received funding from the National Science Fund for Distinguished Young Scholars.

Research Directions:

Non-benzenoid Aromatic Hydrocarbon Chemistry (Azulene Chemistry)

Organic Optoelectronic Functional Materials

Organic Biological Functional Materials

Expert Category:

Researcher

Position:

Project Leader

Awards and Honors:

In 2013: Lu Jiaxi Young Talent Award, Chinese Academy of Sciences

In 2015: One of the First Outstanding Members of the Youth Innovation Promotion Association CAS

In 2015: China Youth May Fourth Medal, Chinese Academy of Sciences Shanghai Branch

In 2016: Shanghai Youth May Fourth Medal of Science and Technology System

In 2020: Second Prize of Shanghai Natural Science Award (First Contributor)

In 2021: Thieme Chemistry Journal Award

Representative Publications:

Hanshen Xin, Bin Hou, Xike Gao.\* Azulene-based π-functional materials: design, synthesis, and applications. Acc. Chem. Res. 2021, 54, 1737-1753.

Chao Duan, Jianwei Zhang, Junjun Xiang, Xiaodi Yang,\* Xike Gao.\* Azulene-Embedded [n]Helicenes (n = 5, 6 and 7). Angew. Chem. Int. Ed. 2022, 61, e202201494.

Bin Hou, Zhuofan Zhou, Cui Yu, Xiao-Song Xue, Jianwei Zhang, Xiaodi Yang, Jing Li, Congwu Ge, Jingtao Wang,\* Xike Gao.\* 2,6-Azulene-based Homopolymers: Design, Synthesis, and Application in Proton Exchange Membrane Fuel Cells. ACS Macro Lett. 2022, 11, 680-686.

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Hanshen Xin, Jing Li, Xiaodi Yang, Xike Gao.\* Azulene-Based BN-Heteroaromatics. J. Org. Chem. 2020, 85, 70-78.

Honglei Gao,# Congwu Ge,# Bin Hou, Hanshen Xin, Xike Gao.\* Incorporation of 1,3-Free-2,6-Connected Azulene Units into the Backbone of Conjugated Polymers: Improving Proton Responsiveness and Electrical Conductivity. ACS Macro Lett. 2019, 8, 1360-1364. (# Co-first authors)

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Fengjiao Zhang,# Yunbin Hu,# Torben, Schuettfort, Chong-an Di,\* Xike Gao,\* Christopher R McNeill,\* Lars Thomsen, Stefan C B Mannsfeld, Wei Yuan, Henning Sirringhaus, Daoben Zhu.\* Critical Role of Alkyl Chain Branching of Organic Semiconductors in Enabling Solution-Processed N-channel Organic Thin-film Transistors with Mobility of up to 3.50 cm2V-1s-1. J. Am. Chem. Soc. 2013, 135, 2338-2349. (# Co-first authors)

Xike Gao,\* Chong-an Di,\* Yunbin Hu, Xiaodi Yang, Hongyu Fan, Feng Zhang, Yunqi Liu, Hongxiang Li, Daoben Zhu. Core-expanded naphthalene diimides fused with 2-(1,3-dithiol-2-ylidene)malonitrile groups for high-performance, ambient-stable, solution-processed n-channel organic thin film transistors. J. Am. Chem. Soc. 2010, 132, 3697-3699.