基本信息

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职　　务	化工研究所副所长	
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教育背景

1998.03-2001.03	北京理工大学，应用化学专业，工学博士
1995.09-1998.03	北京理工大学，物理化学专业，理学硕士
1991.09-1995.07	河南师范大学，化学教育专业，理学学士

工作履历

2008.08-至今	北京理工大学化学与化工学院，副教授
2003.07-2008.07	日本川村理化学研究所，客员研究员
2001.10-2003.07	北京大学，北京大学化学与分子工程学院，博士后

研究方向

1.	高强度纳米复合水凝胶
2.	湿度响应材料
3.	自修复柔性导电材料
4.	渗透汽化有机-无机杂化膜分离材料

荣誉奖励

1.	北京市优秀本科生毕设论文指导教师（2020）
2.	北京市优秀硕士生论文指导教师（2017）

3.	北京理工大学杰出中青年教师发展支持计划获得者（2008）

承担项目

1.	高强度纳米复合水凝胶的仿生自组装制备及性能研究，国家自然科学基金面上项目（21174017），2012.01-2015.12, 60 万元，主持
2.	石墨烯基高强度纳米复合水凝胶研究，北京市自然科学基金面上项目（2102040），11 万，2010,01-2012.12，主持
3.	基于纳米复合构筑单元的仿生自组装制备生物功能水凝胶，北京理工大学重大项目培育专项（2012CX01013），2012.01-2014.12, 40 万，主持
4.	**基于碳纳米管的高强度纳米复合水凝胶研究，**北京理工大学杰出中青年教师发展支持计划（2 2050205），2009.1-2013.12, 50 万，主持
5.	选择性渗透 VOCs 的化工分离新膜材料多层次微结构设计与性能调控制备，国家自然科学基金项目（21736001），2018.01-2022.12，354 万元，参与
6.	

研究成果

主持国家自然科学基金项目 1 项，教育部博士点新教师基金 1 项，北京市自然科学基金面上项目 1 项，留学回国基金项目 1 项，北京理工大学校级项目 3 项，参与国家自然科学基金项目 1 项。迄今在国内外学术刊物及会议上发表学术论文 100 余篇，其中 SCI 收录 60 余篇，EI 收录 30 余篇，获授权专利 7 项。

代表性论文

1.	Huhu Zhao, ShuangYan, Xianghu Jin, Pengying Niu, Gongzheng Zhang, Yukai Wu, and **Huanjun Li***, Tough, Self-Healable and Conductive Elastomers Based on Freezing-Thawing Strategy, *Chemical Engineering Journal*, **2020**, 402, 125421.
2.	Tian Yang, Honglin Yuan, Sitong Wang, Xuhan Gao, Huhu Zhao, Pengying Niu, Beibei Liu, Bo Li, **Huanjun Li***,Tough Biomimetic Films for Harnessing Natural Evaporation for Various Self-powered Devices, *Journal of Materials Chemistry A*, 2020, 8, 19269- 19277.
3.	Sitong Wang, ShuangYan, Li Zhang, Huhu Zhao, Tian Yang, Feibo Li, and **Huanjun Li***, Bioinspired Poly(vinyl alcohol) Film Actuator Powered by Water Evaporation under Ambient Conditions, *Macromolecular Material and Engineering*, **2020**, 305, 200145.
4.	Shuyun Zhuo, Ziguang Zhao, Zhexin Xie, Yufei Hao, Yichao Xu, Tianyi Zhao, **Huanjun Li**, Elias M. Knubben, Li Wen, Lei Jiang, Mingjie Liu, Complex multiphase organohydrogels with programmable mechanics toward adaptive soft-matter machines, *Science Advances*, **2020**, 6, eaax1464.
5.	Feibo Li, Gongzheng Zhang, Zhaoshuo Wang, Haoyang Jiang, Xianqi Feng, Shuang Yan, Li Zhang, **Huanjun Li***, Tianyi Zhao, and Mingjie Liu*, Bioinspired nonswellable ultrastrong nanocomposite hydrogels with long-term underwater superoleophobic behavior, *Chemical*

	Engineering Journal, **2019**, 375, 122047.
6.	Shuang Yan, Gongzheng Zhang, Feibo Li, Li Zhang, Sitong Wang, Huhu Zhao, Qi Ge and **Huanjun Li***, Large-area superelastic graphene aerogels based on room-temperature reduction self-assembly strategy for sensing and particulate matter (PM 2.5 and PM 10) capture. *Nanoscale*, **2019**, 11, 10373-10380.
7.	Feibo Li, Gongzheng Zhang, Zhaoshuo Wang, Haoyang Jiang, Shuang Yan, Li Zhang, and **Huanjun Li***, Strong wet adhesion of tough transparent nanocomposite hydrogels for fast tunable focus lenses, *ACS Applied Material & Interfaces*, **2019**, 11, 15071-15078.
8.	Li Zhang, Yaqian Zhang, Feibo Li, Shuang Yan, Zhaoshuo Wang, Lixia Fan, Gongzheng Zhang, **Huanjun Li***.Water-Evaporation-Powered Fast Actuators with Multimodal Motion Based on Robust Nacre-Mimetic Composite Film. *ACS Applied Materials & Interfaces*, **2019**, 11, 12890–12897.
9	Li Zhang, Yaqian Zhang, Feibo Li, Shuang Yan, Zhaoshuo Wang, Lixia Fan, Gongzheng Zhang, **Huanjun Li***.Water-Evaporation-Powered Fast Actuators with Multimodal Motion Based on Robust Nacre-Mimetic Composite Film. *ACS Applied Materials & Interfaces*, **2019**, 11, 12890–12897.
10	Haoyang Jiang, Lixia Fan, Shuang Yan, Feibo Li, **Huanjun Li*** and Jianguo Tang, Tough and electro-responsive hydrogel actuators with bidirectional bending behavior, *Nanoscale*, **2019**, 11, 2231-2237.
11	Shuang Yan, Gongzheng Zhang, Xianghu Jin, Haoyang Jiang, Feibo Li, Li Zhang, Zhaoshuo Wang, Lixia Fan, and **Huanjun Li***, Rapid Room-Temperature Self-Healing Conductive Nanocomposites based on Naturally Dried Graphene Aerogels, *Journal of Materials Chemistry C*, **2018**, 6, 10184-10191.
12	Yaqian Zhang, Li Zhang, Gongzheng Zhang, and **Huanjun Li***， Naturally Dried Graphene-Based Nanocomposite Aerogels with Exceptional Elasticity and High Electrical Conductivity, *ACS Applied Materials&Interfaces*, **2018**, 10, 21565−21572.
13	Feibo Li, Gongzheng Zhang, Yanhong Xia, Zhaoshuo Wang, Haoyang Jiang, Xianqi Feng, Y aqian Zhang, Mingjie Liu, and **Huanjun Li***, Hierarchically crosslinked ionic nanocomposite hydrogels with ultrahigh mechanical properties for underwater bioinspired capturing device, *Composites Science and Technology*, **2018** 165, 339-346.
14	**Huanjun Li,** Haoyang Jiang, and Kazutoshi Haraguchi*, Ultrastiff, thermoresponsive nanocomposite hydrogels composed of ternary polymer–clay–silica networks, *Macromolecules*, **2018**, 51, 529-539.
15	Haoyang Jiang, Gongzheng Zhang, Feibo Li, Yaqian Zhang, Yu lei, Yanhong Xia, Xianghu Jin, Xianqi Feng and **Huanjun Li***,Self-healable and tough nanocomposite hydrogel crosslinked by novel ultrasmall aluminum hydroxide nanoparticles. *Nanoscale*, **2017**, 9, 15470-15476.
16	Yaqian Zhang, Haoyang Jiang, Feibo Li, Yanhong Xia, Yu Lei, Xianghu Jin, Gongzheng Zhang* and **Huanjun Li***. Graphene oxide based moisture-responsive biomimetic film actuators with nacre-like layered structures. *Journal of Materials Chemistry A*, **2017**, 5, 14604-14610
17	Haoyang Jiang, Gongzheng Zhang, Xianqi Feng, Huanqing Liu, Feibo Li, Muqun Wang, **Huanjun Li***, Room-temperature self-healing tough nanocomposite hydrogel crosslinked by

	zirconium hydroxide nanoparticles, *Composites Science and Technology*, **2017**, 140,54-62.
18	Wei Lu, **Huanjun Li,** Bo Huo, Zihui Meng*, Min Xue, Lili Qiu, Shaopeng Ma, Zequn Yan, Chunmei Piao, Xiaoqin Ma, Full-color mechanical sensor based on elastic nanocomposite hydrogels encapsulated three-dimensional colloidal arrays**,** *Sensors and Actuators B Chemical*, **2016,** 234, 527-533.
19	Kazutoshi Haraguchi*, **Huanjun Li**, Yingjia Xu, Guang Li, Copolymer nanocomposite hydrogels: Unique tensile mechanical properties and network structures, *Polymer*, **2016**, 96, 94-103.
20	Xianqi Feng, Gongzheng Zhang, Shuyun Zhuo, Haoyang Jiang, Jinli Shi, Feibo Li, **Huanjun Li*,** Dual responsive shape memory polymer/clay nanocomposites, *Composites Science and Technology*, **2016**, 129,53-60.
21	Xianqi Feng, Gongzheng Zhang, Quanming Bai, Haoyang Jiang, Bo Xu, **Huanjun Li***, High Strength Self-healing Magnetic Elastomers with Shape Memory Effect, *Macromolecular Material and Engineering*, **2016**, 301, 125-132.
22	Bo Xu, Hangyang Jiang, **Huanjun Li***, Gongzheng Zhang*, Qingshan Zhang, High strength nanocomposite hydrogel bilayer with bidirectional bending and shape switching behaviors for soft actuators, *RSC Advances*, **2015**, *5*, 13167-13170.
23	Bo Xu , **Huanjun Li***, Yuyang Wang , Gongzheng Zhang, Qingshan Zhang, Nanocomposite Hydrogels with High Strength Cross-linked by Titania, *RSC Advances*, **2013**, 3, 7233-7236.
24	Kazutoshi Haraguchi*, **HuanJun Li**, Huanyin Ren, Meifang Zhu, Modification of Nancomposite Gels by Irreversible Rearrangement of Polymer/Clay Network Structure through Drying, *Macromolecules*, **2010,** 43(23), 9848-9853.
25	Kazutoshi Haraguchi*, **Huanjun Li,** Liyuan Song, Unusually high hydrophobicity and its changes observed on the newly-created surfaces of PNIPA/clay nanocomposite hydrogels, *Journal of Colloid and Interface Science* **2008**, 326 (1), 41-50.
26	Kazutoshi Haraguchi*, **Huanjun Li,** Liyuan Song, and Kazutaka Murata, Tunable optical and swelling/deswelling properties associated with control of the coil-to-globule transition of poly(N-isopropylacrylamide) in polymer-clay nanocomposite gels, *Macromolecules*, **2007,** 40(19), 6973-6980.
27	Kazutoshi Haraguchi*, **Huanjun Li,** Noriaki Okumura, Hydrogels with hydrophobic surfaces: Abnormally high contact angles for water on PNIPA nanocomposite hydrogels, *Macromolecules*, **2007,** 40(7), 2299-2302.
28	Kazutoshi Haraguchi*, **Huanjun Li,** Mechanical properties and structure of polymer-clay nanocomposite gels with high clay content, *Macromolecules*, **2006,** 39(5), 1898-1905.
29	Kazutoshi Haraguchi*, **Huanjun Li,** Control of the coil-to-globule transition and ultrahigh mechanical properties of PNIPA in Nanocomposite Hydrogels, *Angew. Chem. Int. Ed.*, **2005,** *44*(40), 6500-6504.
30	Kazutoshi Haraguchi*, **Huanjun Li,** Kaori Matsuda, Toru Takehisa, and Eric Elliott, Mechanism of Forming Organic/Inorganic Network Structures during In-situ Free-Radical Polymerization in PNIPA-Clay Nanocomposite Hydrogels, *Macromolecules*, **2005,** *38*(8), 3482-3490.
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	1473-1475.
32	Huan Liu, Shuhong Li, Jin Zhai, **Huanjun Li**, Quanshui Zheng, Lei Jiang, Daoben Zhu, Self-Assembly of Large-Scale Micropatterns on Aligned Carbon Nanotube Films, *Angewandte Chemie International Edition*, **2004**, 43 (9), 1146-1149.
33	Shuhong Li, **Huanjun Li**, Xianbao Wang, Yanlin Song, Yunqi Liu, Lei Jiang, Daoben Zhu, Super-hydrophobicity of large-area honeycomb-like aligned carbon nanotubes, *Journal of Physical Chemistry B.*, **2002**, *106*(36); 9274-9276.
34	Lin Feng, Shuhong Li, Yingshun Li, **Huanjun Li**, Lingjuan Zhang, Jin Zhai, Yanlin Song, Lei Jiang, Daoben Zhu, Super-hydrophobic Surface：From Natural to Artificial, *Advanced Materials*, **2002**，*14(24)*，1857-1860.
35	Lin Feng, Shuhong Li, **Huanjun Li**, Jin Zhai, Yanlin Song, Lei Jiang, Daoben Zhu, Super-hydrophobic surface of aligned polyacrylonitrile nanofibers, *Angewandte Chemie International Edition*, **2002**, *41(7)*, 1221-1224.
36	**Huanjun Li**, Xianbao Wang, Yanlin Song, Yunqi Liu, Qianshu Li, Lei Jiang, Daoben Zhu, Super-"amphiphobic" aligned carbon nanotubes films, *Angewandte Chemie International Edition*, **2001**, *40(9)*, 1743–1746.