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2021-05-21 核学院

李玉红，兰州大学核科学与技术学院教授，博士生导师，甘肃省高层次专业技术人才。
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研究方向：核材料、离子束与材料相互作用、高放射性核废物固化
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兰州大学物理系获学士、硕士、博士学位，中国科学院近代物理研究所博士后，美国Los Alamos National Laboratory访问学者及客座研究员，美国密歇根大学核工程与放射科学系高级研究学者。

学术兼职：全国高等学校光学理事会第一届理事、《核科学与技术》编委、中国机电产品国际招标评标专家、Journal of Alloys and Compounds、Journal of Nuclear Materials、Ceramics International、Acta Materialia等期刊审稿人。

主讲课程：《光学》、《固体物理》、《离子束材料辐照效应》、《核材料物理》。

获奖统计

2017年获兰州大学本科毕业论文优秀指导教师

2016年获甘肃省优秀硕士学位论文指导教师

2016年获兰州大学优秀硕士学位论文指导教师

2014年获兰州大学隆基教学骨干奖

2014年获2013兰州大学创新创业行动计划“优秀指导教师”

2013年获兰州大学工会“巾帼标兵”

2011年获甘肃省高等学校青年教师成才奖（全省排名第一）

2005年获“兰州大学2005年度教学成果一等奖（第一获奖人）

2004年获 兰州大学第三届“教学新秀奖”二等奖

主要科研成果：项目、代表论文、著作

科研项目：

1.主持国家自然科学基金项目：“不同反位参数及晶粒尺寸尖晶石的离子束辐照效应及机理研究” （批准号：11775102），2018.1-2021.12，80万，在研。

2.主持国家自然科学基金项目：“$(Ce_xA_{1-x})_2Ti_2O_7$ (A=Y, Gd, Lu; x=0-1)的制备及离子束辐照效应研究” （批准号：11475076），2015.1-2018.12，96万，在研。

3.主持国家自然科学基金项目：“离子束辐照$Ln_{2+x}Ti_{2-x}O_{7-x/2}$ (x=0-0.67)烧绿石所引起的结构变化”（批准号：11175076），2012.1-2015.12，80万，已结题。

4.主持教育部第46批回国人员基金：“镧系钛酸盐烧绿石的制备及重离子辐照效应研究”2012.5.7，已结题。

5.主持国家自然科学基金项目：“Delta-$A_4Hf_3O_{12}$ (A=Er,Lu and Sc)复合氧化物陶瓷材料的

制备及其辐射损伤性能研究”（批准号：10975065）， 2010.1-2012.12，46万，已结题。
6.主持国家自然科学基金项目：“通过反冲极化方法对质子电磁形状因子以及ep散射过程中双光子贡献的实验研究”（批准号：10775062），2008.1-2010.12，38万，已结题。
7.主持兰州大学中央高校基本科研业务专项资金项目：“离子束辐照引起烧绿石相$Ln_2Ti_2O_7$(Ln=Y,Gd-Lu)的肿胀效应研究”（项目号：lzujbky-2009-25)，（2010.1-2010.12），已结题。
8.主持甘肃省自然科学基金项目（项目号：3ZS061-A25-006），（2007.1-2008.12），已结题。
9.主持兰州大学博士科研启动经费，（2005.9-2006.9），已结题。
10.参加国家自然科学基金项目(3/9)（批准号：10375028），已结题。
11.参加真空低温技术与物理国家级重点实验室基金(2/5)（批准号：51475040103JW2301）（2006.1-2007.12），已结题。
12.参加高等学校博士学科点专项科研基金（2/6）（编号：20040730029），已结题。
13.主持兰州大学第二批重点课程建设项目“物理基地班《光学》课程建设的实践与研究”，（2001.9-2004.3），已结题。
14.主持兰州大学教学模式改革项目“《光学》课程教学模式的创新研究”，（2003.7-2005.7），已结题。
15.主持兰州大学第五批重点课程建设项目“现代光学课程的多渠道全方位建设”，（2004.7-2007.7），已结题。
已发表的代表论文（*表示为通讯作者）：
2021年
1.Xue-Xi Zhang, Li Qiao, Hong Zhang, Yu-Hong Li*, Peng Wang*, Chang-Song Liu, Surface blistering and deuterium retention behaviors in pure and ZrC-doped tungsten exposed to deuterium plasma, Nucl. Fusion 61(2021)046026

2.Xuexi Zhang, Li Qiao, Hong Zhang, Wenhao He, Yuhong Li*, Peng Wang*, Effect of 3 MeV Fe^{11+} ions pre-damage on blistering and deuterium retention in two tungsten grades, Nuclear Materials and Energy 27(2021)100973

3.Qiang-Lin Wei (https://pubs.rsc.org/en/results?searchtext=Author%3AQiang-Lin%20Wei), Xue-Liang Zhu (https://pubs.rsc.org/en/results?searchtext=Author%3AXue-Liang%20Zhu), Peng-Fei Liu (https://pubs.rsc.org/en/results?searchtext=Author%3APeng-Fei%20Liu), Yi-Yuan Wu (https://pubs.rsc.org/en/results?searchtext=Author%3AYi-Yuan%20Wu), Jiang-Jiang Ma (https://pubs.rsc.org/en/results?searchtext=Author%3AJiang-Jiang%20Ma), Yi-Bao Liu (https://pubs.rsc.org/en/results?searchtext=Author%3AYi-Bao%20Liu), Yu-Hong Li*, Bao-Tian Wang (https://pubs.rsc.org/en/results?searchtext=Author%3ABao-Tian%20Wang)*, Quadruple-layers group-IV tellurides low thermal conductivity and high performance two-dimensional thermoelectric materials, Physical Chemistry Chemical Physics, Accepted, DOI: 10.1039/D1CP00469G

4.Qianglin Wei, Yuhong Li*, Yanliang Huang, Dongyan Yang, Bo Yang, Yibao Liu, The corrosion behavior of high-level waste container materials Ti and Ti-Pd alloy under long-term gamma irradiation in Beishan groundwater, Chinese Physics B, accepted

5.Shiyin Jia, Chang-Zhong Liao*, Shuangqiang Chen, Kuibao Zhang, Kaimin Shih, Chung-Kai Chang, Hwo-shuenn Sheu, Shan Yan, Yuhong Li*, Zhiguang Wang, Higher valency ion substitution causing different fluorite-derived structures in $CaZr_{1-x}Nd_xTi_{2-x}Nb_xO_7$ ($0.05 \leqslant x \leqslant 1$) solid solution, Ceramics International 47(2021)2694-2704

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7.S. Yan, D.Y. Yang, S.Q. Chen, J. Wen, W.H. He, S.Y. Ji, Y. Xia, Y.L. Wang, L.F. Zhou, Y.H.Li*, Structure and Thermal Expansion Behavior of $Ca_4La_{6-x}Nd_x(SiO_4)_4(PO_4)_2O_2$, Dalton Trans., 49 (2020) 2578

8.PanYang, Yulong An*, DiZhao, Yuhong Li*, Huidi Zhou, Jianmin Chen, Structure evolution, thermal properties and sintering resistance of promising thermal barrier coating material $La_2(Zr_{0.75}Ce_{0.25})_2O_7$, Ceramics International 46 (2020) 20652-20663

9.Yue Xia, Dongyan Yang, Chien-Hung Chen, Yna Hao, Rodeny C.Ewing, Yuhong Li*, Structural evolution of $Lu_{2-x}Ce_xTi_2O_7$ pyrochlores under 400keV Ne irradiation, Journal of the American Ceramic Society 00 (2020) 1-11

10.Pan Yang, Yulong An*, Dongyan Yang, Yuhong Li*, Jianmin Chen, Structure, thermal properties and hot corrosion behaviors of $Gd_2Hf_2O_7$ as a potential thermal barrier coating material, Ceramics International 46 (2020) 21367-21377

11.Yi-Yuan Wu, Tao Bo, Xueliang Zhu, Zhiguang Wang, Junwei Wu, Yuhong Li*, and Bao-Tian Wang*. Two-dimensional tetragonal Ti_2BN: A novel potential anode material for Li-ion batteries, Applied Surface Science, 513(2020)145821

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14.周良付，张婧，何文豪，王栋，苏雪，杨冬燕，李玉红*，氦泡在bcc钨中晶界处成核长大的分子动力学模拟，物理学报 69(4)(2020) 046103
15.梁晋洁，高宁，李玉红*，表面效应对铁间隙性位错环的影响，物理学报 69(3)(2020) 036101
16.梁晋洁，高宁，李玉红*，体心立方Fe中微裂纹与间隙型位错环相互作用的分子动力学模拟，金属学报，DOI 10.11900/0412.1961.2020.0021
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19.Y.Y.Wu, T.Bo, J.R.Zhang, Z.S.Lu, Z.G.Wang, Y.H.Li*, B.T.Wang*, Novel two-dimensional tetragonal vanadium carbides and nitrides as promising materials for Li-ion batteries, Physical Chemistry Chemical Physics 21 (2019) 19513
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22.刘 焕，刘晨光，杨冬燕，夏月，李玉红*，$RE_2Ti_2O_7$(RE=Gd, Y, Ho, Er)的结构、机械性能及热学性质的第一性原理研究，原子核物理评论 36 (2019) 248-255
23.周良付，张婧，何文豪，苏雪，杨冬燕，李玉红* ，氦团簇及氦间隙原子在钨中的稳定性研究，原子核物理评论 36 (2019) 256-300
24.张婧，周良付，陈双强，何文豪，苏雪，杨冬燕，李玉红*，单轴应力场下钨中氦扩散行为的分子动力学模拟研究，原子核物理评论36 (2019) 261-265
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33.Liyuan Dong, Yuhong Li*, Ram Devanathan*, Wahyu Setyawan, Fei Gao*, Low Energy Ion-Solid Interactions and Chemistry Effects in a Series of Pyrochlores, Journal of the American Ceramic Society, 100, 7 (2017) 3132
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36.Xiao Liu, Gongyan Yang, Chenguang Liu, Huan Liu, Shiyin Ji, Pengcheng Mu, Yiyuan Wu, Yuhong Li*, Insights into the radiation behavior of Ln_2TiO_5 (Ln=La-Y) from defect energetic, Computational Materials Science, 139 (http://www.sciencedirect.com/science/journal/09270256/134/supp/C) (2017) 295
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40.哈日巴拉，拓　飞，胡碧涛，王成国，格日勒满达呼，许　潇，张　帅，包山虎，李玉红*，巴彦乌拉铀矿周围饮用水中放射性及健康风险，中国环境科学　37(9) (2017)3583-3590
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