

# Haojun Jia

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## EDUCATION

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<b>Massachusetts Institute of Technology</b> , Cambridge, the U.S.A. Department of Chemistry and Department of Chemical Engineering <i>Ph.D. in Physical Chemistry</i> Advisor: Heather Kulik	<b>Aug.2019 – Present</b>
<b>National Research Tomsk Polytechnic University</b> , Tomsk, Russia <i>B.S. in Condensed Matter Physics</i>	<b>Jul.2017 – Jul.2019</b>
<b>Johns Hopkins University</b> , Baltimore, the U.S.A. <i>Visiting Undergraduate Researcher</i>	<b>Jun.2018 – Sep.2018</b>
<b>Jilin University</b> , Changchun, China <i>Tang Aoqing Honors Program</i> <i>B.S. in Physics</i>	<b>Jul.2015 – Jul.2019</b>

## HONORS AND AWARDS

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<b>Honorary Member of Tang Aoqing Honors Program in Science</b> , the highest honor for graduation, JLU	2019
<b>Outstanding Prize in Research &amp; Practice</b> , the highest prize of scholarship, JLU	2019
<b>Dean's Scholarship</b> , the highest honor in College of physics, JLU	2019
<b>Excellence Student Leader Scholarship</b> , award for extraordinary student leader, JLU	2018

## SELECTED PUBLICATION

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- [1] **Hao-Jun Jia**, Hui-Min Mu, Jin-Peng Li, Yan-Zhen Zhao, Yu-Xuan Wu, and Xiao-Chun Wang\*, Piezoelectric and polarized enhancement by hydrofluorination on penta-graphene, *Physical Chemistry Chemical Physics*, **20**, 26288 (2018). ( Selected as a “hottest work published in PCCP” )
- [2] Yan-Zhen Zhao †, **Hao-Jun Jia** †, Hong-Xia Yu, Yu-Bin Wang, Heng-Yu Li, Zhao-Zhen Lin, Yu-Xuan Wu, Xiao-Chun Wang\*, Intrinsic Piezoelectricity on Monolayer Group V-IV-III-VI: GeP-GaS, SiP-AlS, SnP-InS, *Physica E: Low-dimensional Systems and Nanostructures*, **10**, 1016, 113817 (2019), (†: co-first author)
- [3] Jin-Peng Li, **Hao-Jun Jia**, Dong-Ran Zhu, Xiao-Chun Wang\*, Fu-Chun Liu\*, and Yu-Jun Yang, Piezoelectricity and dipolar polarization of group V-IV-III-VI sheets: A first-principles study, *Applied Surface Science*, **463**, 918-922 (2019)
- [4] Heng-Yu Li †, **Hao-Jun Jia** †, L. A. Svyatkina\*, I.P. Chernova, Mutual influence of difference concentration on energy and electronic structure in  $\alpha$ -Zirconium, system with vacancies, [arXiv:1811.09856](https://arxiv.org/abs/1811.09856) (†: co-first author)
- [5] **Hao-Jun Jia**, Heng-Yu Li, Yan-Zhen Zhao, L. A. Svyatkina\*, I.P. Chernova, Influence of Niobium on the interaction and diffusion of hydrogen with  $\alpha$ -Zr, In Preparation

## TALKS AND POSTERS

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- Hao-Jun Jia** and L. A. Svyatkina, *15<sup>th</sup> International Conference: Prospects of Fundamental Science Development*, Tomsk State University, Tomsk, April 2018, talk
- Hao-Jun Jia** and Xiao-Chun Wang, *Jilin University Research Poster Day*, Jilin University, Changchun, March 2018, poster
- Hao-Jun Jia** and Xiao-Chun Wang, *Jilin University College of Physics Research Conference*, Jilin University, Changchun, December 2011, talk