**杨晔**

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**个人信息**

**性别：男**

**民族：汉**

**籍贯：陕西延川**

**出生日期：1985年10月16日**

**教育经历**

2013年12月 Emory University，获物理化学博士，美国，亚特兰大

2008年7月中国科学技术大学，获理学学士，中国，合肥

**研究经历**

博士后，2014年1月-现在，美国可再生能源国家实验室

研究方向： 研究半导体材料内部和表面的光载流子的转移，扩散和复合等超快动力学过程

导师： Matthew Beard博士

博士，2008年9月 – 2013年12月， Emory University

研究方向： 研究量子点界面电子转移动力学过程

导师： 连天泉教授

本科，2006年6月- 2008年6月,合肥微尺度国家实验室

研究方向：利用水热法和模板法合成具有复合结构的纳米材料

导师： 谢毅教授

**获奖及荣誉**

1. MCST Postdoctoral Publication and Innovation Prize, 美国新能源国家实验室, 2015
2. 国家优秀自费留学生奖学金，国家留学基金委,2012
3. Quayle Fellowship, Emory University, 2012
4. 优秀学生奖学金，中国科学技术大学，2005，2006，2007
5. 优秀新生奖学金, 中国科学技术大学, 2004

**学术论文（部分）**

1. Ye Yang,\* Jing Gu, James L. Young, Elisa M. Miller, John A. Turner, Nathan R. Neale and Matthew C. Beard\*. *“Semiconductor interfacial carrier dynamics via photoinduced electric fields”* ***Science,*** 2015, **350**, 1061.
2. Ye Yang, David P. Ostrowski, Ryan France, Kai Zhu, Jao van de Lagemaat, Joseph M. Luther and Matthew C. Beard. *“Observation of a Hot-Phonon Bottleneck in Lead Iodide Perovskites”* ***Nat. Photon.,*** 2016, **10**, 53.
3. Ye Yang,\*Yong Yan, Mengjin Yang, Sukgeun Choi, Kai Zhu, Joseph M. Luther and Matthew C. Beard.\* *“Low surface recombination velocity in solution-grown CH3NH3PbBr3 perovskite single crystal”* ***Nat. Commun.*,**2015, **6**, 7961.
4. Ye Yang, Mengjin Yang, Zhen Li, Ryan Crisp, Kai Zhu and Matthew C. Beard\*. *“Comparison of Recombination Dynamics in CH3NH3PbBr3 and* *CH3NH3PbI3 Perovskite Films: Influence of Exciton Binding Energy”* ***J. Phys. Chem. Lett.****, 2015,***6**, 4688.
5. Haiming Zhu,# Ye Yang,# (# contributed equally) Kim Hyeon-Deuk, Marco Califano, Nianhui Song, Youwei Wang, Wengqing Zhang, Oleg V. Prezhdo, Tianquan Lian. *Auger-Assisted Electron Transfer from Photoexcited Semiconductor Quantum Dots*, ***Nano Lett.*** 2014, 14 (3), 1263-1269.
6. Ye Yang, Zheng Liu, and Tianquan Lian. *Direct Measurement of Bulk Transport and Interfacial Transfer of Photogenerated Charge Carriers in Quantum Dot Solid*, ***Nano Lett.***, 2013, 13(8), 3678-3683.
7. Ye Yang and Tianquan Lian. *Multiple Exciton Dissociation and Hot Electron Extraction by Ultrafast Interfacial Electron Transfer from PbS QDs*, ***Coord. Chem. Rev*.**, 2014, 263-264(0), 229-238.
8. Ye Yang, William Rodríguez-Córdoba, and Tianquan Lian. *Multiple Exciton Generation and Dissociation in PbS Quantum Dot-Electron Acceptor Complexes*, ***Nano Lett.***,2012,12(8), 4235-4241.
9. Ye Yang, William Rodríguez-Córdoba, Xu Xiang, and Tianquan Lian. *Strong Electronic Coupling and Ultrafast Electron Transfer between PbS Quantum Dots and TiO2 Nanocrystalline Films*, ***Nano Lett.***,2012, 12(1), 303-309.
10. Ye Yang, William Rodríguez-Córdoba, and Tianquan Lian. *Ultrafast Charge Separation and Recombination Dynamics in Lead Sulfide Quantum Dot–Methylene Blue Complexes Probed by Electron and Hole Intraband Transitions*, ***J. Am. Chem. Soc.***, 2011, 133(24), 9246-9249.

**会议报告**

1. Ye Yang, “*Efficient multiple exciton dissociation and hot electron extraction from PbS QDs*,” 246th ACS National Meeting, Indianapolis, IN, USA, September 8-12, 2013.
2. Ye Yang, “*Ultrafast Photocarrier Dynamics in Organic-inorganic Hybrid Perovskites*” 2015 MRS Spring Meeting & Exhibit, San Francisco, CA, USA, April 6-10, 2015.
3. Ye Yang, “*Direct Probe of the Hole Localization in CdSe Nanorods*” 2015 MRS Spring Meeting & Exhibit, San Francisco, CA, USA, April 6-10, 2015.
4. Ye Yang, “*Hot phonon-bottleneck in lead halide perovskite films*” 251th ACS National Meeting, San Diego, CA, USA, March 13-18, 2016.
5. Ye Yang, “*Ultrafast photo-induced electric field at the surfaces of p-GaInP2 electrode*” 2016 MRS Spring Meeting & Exhibit, Phoenix, AZ, USA, March 28-April 1, 2016.