



田莹

教授

硕士生导师

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#### 教育背景

芬兰 Aalto 大学理学博士（2012）

大连海事大学理学硕士（2006）

辽宁师范大学理学学士（2003）

#### 研究领域

稀土掺杂发光材料的光学性质及其应用研究。

新型碳纳米材料的光学性质研究；

碳纳米管的可控合成及其在非线性光学的应用研究；

#### 代表性成果

论文类：

(1) Validity of Measuring Metallic and Semiconducting Single-walled Carbon Nanotubes Fractions by Quantitative Raman spectroscopy, ***Y.Tian\****, H.Jiang, P.Laiho and E.I.Kauppinen, *Analytical Chemistry*, 90, 2517-2525, 2018. (SCI, IF:6.986)

(2) Colors of Single-Wall Carbon Nanotubes, Wei, N ; ***Tian, Y*** ; Liao,

YP ; Komatsu, N ; Gao, WL; Lyuleeva-Husemann, A ; Zhang, Q; Hussain, A; Ding, EX ; Yao, FR ; Halme, J; Liu, KH; Kono, J; Jiang, H; Kauppinen, EI, *Advanced Materials*, 33, 2006395-2006402, 2021. (SCI, IF:32.086)

(3) Cutting Floating Single-walled Carbon Nanotubes with a “CO<sub>2</sub> Blade”, Tian, Y.; Wei, N.; Laiho, P.; Ahmad, S.; Magnin, Y.; Liao, Y.; Bichara, C.; Jiang, H.; Kauppinen\*, E. I., *Carbon*, 143, 481-486, 2019. (SCI, IF:11.307)

(4) Photon-pair Generation with a 100 nm Thick Carbon Nanotube Film, K.F.Lee., Y.Tian., H.Yang., K.Mustonen., A.Martinez., Q.Dai., E.I.Kauppinen, J.Malowicki., P.Kumar, and Z.Sun, *Advanced Materials*, 29, 1605978-87, 2017. (SCI, IF:32.086)

(5) Three primary color emission from single multilayered nanocrystals, X.Yin, H.Wang., Y.Tian\*, M. Xing., Y. Fu, Xixian Luo\*., *Nanoscale*, 10, 9673-78, 2018. (SCI, IF:8.307)

(6) Engineering Er<sup>3+</sup>-sensitized nanocrystal for enhancing the NIR II-responsive upconversion luminescence, Wang H., Xu Y., Pang T., Chen B.J., Xin F.Y., Xing M., Ying Tian\*, *Nanoscale*, 14, 962-970, 2021. (SCI, IF:8.307)

(6) Flexible high-performance carbon nanotube integrated circuits, Sun, D., Timmermans, M. Y., Tian, Y., Nasibulin, A. G., Kauppinen, E. I., Kishimoto, S., Mizutani, T., and Ohno, Y., *Nature Nanotechnology* 6, 156-161 (2011). (SCI, IF:39.213)

(7) Cai K., Jiang T., Tian, Y\*, Xing MM., Fu Y., Luo XX., Full-color up-conversion emission from the molybdate of Yb<sub>1.98</sub>Ln<sub>0.02</sub>Mo<sub>4</sub>O<sub>15</sub> (Ln=Er, Ho, Tm), *Journal of Alloys and Compounds*, 2020.01, 814, 152237-152243. (SCI, IF:5.316)

(8) Promising lanthanide-doped BiVO<sub>4</sub> phosphors for highly efficient upconversion luminescence and temperature sensing, Liu YW., Meng LS., Wang H., Jiao JX., Xing MM., Peng Y., Luo XX and Tian, Y\*, *Dalton Transactions*, 2021, 50, 960-970. (SCI, IF:4.390)

#### 代表性项目

(1) 国家自然科学基金青年项目，项目号：51502031，吸收光谱法准确指认单壁碳纳米管手性分布的通用性模型的建立，2016/01-2018/12，主持。

(2) Academy of Finland (芬兰国家自然科学基金)，项目号：276160，Chirality Controlled Growth of Single-walled Carbon nanotubes for

High-performance Thin-film Transistors, 2014/09–2017/08, 经费: 25.6  
万欧元 (约合 190 万人民币), 主持。

#### 荣誉奖励

2010 年, 国家优秀自费留学生奖学金, 中国国家留学基金委员会;  
Nature Photonic Prize, 纳米碳材料的光子和光电子学国际研讨会。

#### 社会兼职

Carbon, Journal of Physical Chemistry Letters 等国际期刊审稿人。

#### 其他