



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

碳纳米管的可控合成及其在非线性光学的应用研究；
新型碳纳米材料的光学性质研究；
稀土掺杂发光材料的光学性质及其应用研究。

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:6.350)

(2) 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:25.809)

(3) Cutting Floating Single-walled Carbon Nanotubes with a “CO₂ 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:7.466)

(4) 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:6.970)

(5) Upconversion luminescence properties of Y₂O₂S:Er³⁺@Y₂O₂S:Yb³⁺,Tm³⁺ core-shell nanoparticles

prepared via homogeneous co-precipitation, **Ying Tian***, Fei lu, Mingming Xing, Jincheng Ran, Yao Fu, Xixian Luo., *Optical Materials*, 64, 58-63, 2017. (**SCI, IF:2.023**)

(6) A reference material of single-walled carbon nanotubes, **Y.Tian***, H.Jiang., I.V.Anoshikin., L.J.I.Kauppinen., K.Mustonen., A.G.Nasibulin and E.I.Kauppinen., *RSC advances*, 5, 102974, 2015. (**SCI, IF:3.049**)

(7) **Tian, Y.**, Jiang H, Pfaler J , Zhu Zh, Nasibulin A G, Nikitin T, Aitchison B, Khriachtchev L, Brown D P, and Kauppinen E I., Analysis of the Size Distribution of Single-Walled Carbon Nanotubes Using Optical Absorption Spectroscopy, *Journal of Physical Chemistry Letters* **1**, 1143-1148. (**SCI, IF:7.329**)

(8) Tailoring the Diameters of Single-walled Carbon Nanotubes for Optical Applications, **Tian, Y.**, Zavodchikova, M. Kivistö, S., Nasibulin, A. G., Zhu, Z., Jiang, H., Okhotnikov, O. G., and Kauppinen, E. I., *Nano Research* **4**, 807-815 (2011). (**SCI, IF:7.994**)

(9) Growth of single-walled carbon nanotubes with controlled diameters and lengths by an aerosol method, **Tian, Y.**, Timmermans, M. Y., Partanen, M., Nasibulin, A. G., Jiang, H., Zhu, Z., Kauppinen, E. I., *Carbon* **49**, 4636-4643 (2011). (**SCI, IF:7.466**)

(10) 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:33.407**)

(11) Combined Raman Spectroscopy and Transmission Electron Microscopy Studies of a NanoBud Structure, **Tian, Y.**, Chassaing, D., Nasibulin, A.G., Ayala, P., Jiang, H., Anisimov, A. S., and Kauppinen, E. I., *Journal of American Chemical Society* **130**, 7188-7189 (2008). (**SCI, IF:14.695**)

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，在研，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),
已结题, 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。