



田莹

教授

博士生导师

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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；
新型碳纳米材料的可控合成及光学性质研究。

代表性成果

论文类：

(1) Designing Er^{3+} Single-doped ternary sulfide for highly efficient upconversion luminescence under 1550 nm excitation, Wang H., He Z., Cai K., **Tian Y***, *Chem. Eng. J.*, 468(2023) 143558. (SCI, IF:13.4)

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

(3) Rapid detection of microalgae cells based on upconversion nanoprobe, Li J., Xue XH., Xin FY., Xing MM., Tian Y., *Anal. Methods*, 2024, 16, 3271. (SCI, IF:3.53)

(4) 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)

(5) 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:11.307)

(6) 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)

(7) 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)

(8) Engineering Er³⁺-sensitized nanocrystal for enhancing the NIR II-responsive upconversion luminescence, Wang H., Xu Y., Pang T., Chen B.J., Xin F.Y., Xing M., Y. Tian*, *Nanoscale*, 14, 962-970, 2021. (SCI, IF:8.307)

(9) 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)

(10)_Cai K., Jiang T., Tian, Y*, Xing MM., Fu Y., Luo XX., Full-color up-conversion emission from the molybdate of Yb_{1.98}Ln_{0.02}Mo₄O₁₅ (Ln=Er, Ho, Tm), *Journal of Alloys and Compounds*, 2020.01, 814, 152237-152243. (SCI, IF:5.316)

专利:

(1) 田莹, 罗昔贤等, 一种船舶压载水微藻含量的检测方法, 发明专利, 授权号, CN 114563362, 2022.11.

(2) 田莹, 辛芳云等, 一种船舶压载水微藻含量的原位检测方法, 发明专利, 授权号, CN 114577749, 2022.10.

(3) 田莹, 刘雨微等, 一种近红外荧光探针及其制备方法与应用, 发明专利, 授权号, CN 112920798, 2022.07.

代表性项目

(1) 国家自然科学基金面上项目, 项目号: 12374404, 面向压载水微藻 NIR-II 荧光成像的超短单壁碳纳米管的可控制备及机理研究, 2024/01-2027/12, 主持。

(2) 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。

(3) 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。

其他