Qiaosong Lin

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Current research interests include the persistent luminescent mechanism, time-dependent density functional theory calculation, and biological applications of persistent luminescence nanomaterials.

Education

2017–present **Bachelor's Degree (Junior Status)**, *Wuhan University*, Wuhan, China.
GPA - 3.72/4.0 | Major: Chemistry

Experience

Research Experience

2018–present **Quan Yuan's Group**, *Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), Wuhan University*, Hubei, China.
Research Interest:
- Mechanism of long afterglow phenomenon
- Sythesis of inorganic long afterglow nanoparticles
- Application of long afterglow in biological analysis

2019 Jul. **The Institute of Theoretical and Computational Chemistry**, *Nanjing University*, Jiangsu, China.
Summer School of Theoretical and Computational Chemistry

2018 Jul. **The National Center for Nanoscience and Technology**, Beijing, China.
Summer Exchange

Teaching Experience

2019 Sept. –2020 Jan. **Teaching Assistant**, *College of Chemistry and Molecular Sciences*, Wuhan University.
Physical Chemstry I

2020 Feb.–Jun. **Teaching Assistant**, *College of Chemistry and Molecular Sciences*, Wuhan University.
Physical Chemstry II

2020 Feb.–Jun. **Teaching Assistant**, *College of Chemistry and Molecular Sciences*, Wuhan University.
Structural Chemstry A

Achievements

Publications

[1] **Lin, Q.;* Li, Z.;* Ji, C.; Yuan, Q.**, *Electronic structure engineering and biomedical applications of low energy-excited persistent luminescence nanoparticles*, *Nanoscale Adv.*, **2020**, *2*, 1380-1394..
*These authors contribute equally to this work.

[2] **Lin, Q.; Li, Z.; Yuan, Q.**, *Recent advances in autofluorescence-free biosensing and bioimaging based on persistent luminescence nanoparticles*, *Chin. Chem. Lett.*, **2019**, *30*, 1547-1556..

[3] **Wang, Y.;* Li, Z.;* Lin, Q.;* Wei, Y.; Wang, J.; Li, Y.; Yang, R.; Yuan, Q.**, *Highly Sensitive Detection of Bladder Cancer-Related miRNA in Urine Using Time-Gated Luminescent Biochip*, *ACS Sens.*, **2019**, *4*, 2124-2130..
*These authors contribute equally to this work.

[4] **Qin, X.; Lin, Q.; Yuan, Q.**, *Applications of Upconversion Nanoparticles in Biological Diagnosis and Therapy*, *Prog. Pharm. Sci.*, **2019**, *43*, 324-333..

Other Achievements

[1] **Lin, Q.**, *PyQTST Package*, https://github.com/Linqiaosong/PyQTST, (2020).

[2] **Fei, Y.; Lin, Q.; Zhuang, L.**, *Fermi-Softness Calculation Package*, https://github.com/idocx/q-e, (2020).

[3] **Lin, Q.**, *QTST Tool*, https://github.com/Linqiaosong/QTST, (2019).

Honor

2018 Sept. **Scholarship of excellent students in Wuhan University (C)**, College of Chemistry and Molecular Sciences, Wuhan University.

2018 Sept. **Outstanding Student Honor**, College of Chemistry and Molecular Sciences, Wuhan University.

2019 Sept. **Scholarship of excellent students in Wuhan University (A)**, College of Chemistry and Molecular Sciences, Wuhan University.

2019 Sept. **Merit Student Honor**, College of Chemistry and Molecular Sciences, Wuhan University.

2019 Oct. **BlueMoon Corporation Scholarship**, Wuhan University.

2020 Jul. **DICP Scholarship**, College of Chemistry and Molecular Sciences, Wuhan University.

Other Information

Computer Ability C, C++, MATLAB, Python, Origin, Adobe Illustrator, Adobe Photoshop, LaTeX

Calculation Software Gaussian, ORCA, MRCC, Dalton, MOPAC, xTB, Multiwfn, VASP, CASTEP

Experience Ability Inorganic synthesis, UV-Vis Spectroscopy, Fluorescence Spectroscopy, FTIR, XRD

Websites

Github https://github.com/Linqiaosong

ORCID https://orcid.org/0000-0003-4347-3361

RG https://www.researchgate.net/profile/Qiaosong_Lin