



## Profile

Professor Da-Wei Li received his PHD degree in 2008 from Dalian University of Technology, China. From 2008 to 2011, he worked at East China University of Science and Technology (ECUST) as a post-doctor fellow, then he became a lecturer in analytical chemistry at ECUST. He was appointed a professor there in 2018 after working at University of Michigan, USA as a visiting scholar from 2015 to 2016. At present, his research interests mainly focus on surface-enhanced Raman scattering based materials, devices and methods for environmental detection and biological analysis.

## Research Field

Materials and methods for biological analysis

Technologies and devices for pollutant detection

## Research results and selected published papers

More than 40 papers have been published in the international well-known academic journals, 3 Chinese patents and 1 PCT patent have been issued, and the special prize of science and technology award of China association for analysis and testing has been awarded. The followings are some typical published papers.

- 1 L. Wang, Z. F. Gan, D. Guo, H. L. Xia, F. T. Patrice, M. E. Hafez, D. W. Li\*, Electrochemistry-regulated recyclable SERS sensor for sensitive and selective detection of tyrosinase activity, *Anal. Chem.* 2019, 91, 6507-6513. (IF=6.042)
- 2 D. Li, X. Cao, Q. Zhang, X. Ren\*, L. Jiang, D. W. Li\*, W. Deng\* and H. Liu, Facile in situ synthesis of core-shell MOF@Ag nanoparticle composites on screen-printed electrodes for ultrasensitive SERS detection of polycyclic aromatic hydrocarbons, *J. Mater. Chem. A*, 2019, 7, 14108-14017. (IF=9.931)
- 3 L. L. Qu, Z. Q. Geng, W. Wang, K. C. Yang, W. P. Wang, C. Q. Han\*, G. Yang, R. Vajtai, D. W. Li\*, P. M. Ajayan, Recyclable three-dimensional Ag nanorod arrays decorated with O-g-C<sub>3</sub>N<sub>4</sub> for highly sensitive SERS sensing of organic pollutants, *J. Hazard. Mater.*, 2019, 379, 12083-12088. (IF=7.650)
- 4 D. Li, Y. Ma, H. Duan, W. Deng\*, D. W. Li\*, Griess reaction-based paper strip for colorimetric/fluorescent/SERS triple sensing of nitrite, *Biosens. Bioelectron.*, 2018, 99, 389-398. (IF=8.173)
- 5 L. L. Qu, Y. Y. Liu, M. K. Liu, G. H. Yang, D. W. Li\*, H. T. Li\*, Highly Reproducible Ag NPs/CNT-Intercalated GO Membranes for Enrichment and SERS Detection of Antibiotics, *ACS Appl. Mater. Interfaces*, 2016, 8, 28180-28186. (IF=8.097)
- 6 D. W. Li\*, L. L. Qu, K. Hu, Y. T. Long\*, H. Tian, Monitoring of endogenous hydrogen sulfide in living cells using surface-enhanced Raman spectroscopy, *Angew. Chem. Int. Ed.*, 2015, 127, 12949-12952. (IF=12.102)
- 7 Y. Cao, D. W. Li\*, X. Y. Liu, L. J. Zhao, Y. T. Long\*, Highly selective detection of carbon monoxide in living cells by palladacycle carbonylation-based SERS nanosensors. *Anal. Chem.*, 2015, 87 (19), 9696-9701. (IF=6.042)
- 8 L. L. Qu, D. W. Li\*, L. X. Qin, J. Mu, J. S. Fossey, and Y. T. Long, Selective and Sensitive Detection of Intracellular O<sub>2</sub> Using Au NPs Cytochrome c as SERS Nanosensors, *Anal. Chem.*, 2013, 85 (20), 9549-9555. (IF=6.042)
- 9 Y. T. Li, L. L. Qu, D. W. Li\*, Q. X. Song, Y. T. Long\*, Rapid and sensitive in-situ detection of polar antibiotics in water using a disposable Ag-graphene sensor based on electrophoretic preconcentration and surface-enhanced Raman spectroscopy, *Biosens. Bioelectron.*, 2013, 43, 94-100. (IF=8.173)
- 10 L. L. Qu, D. W. Li\*, J. Q. Xue, W. L. Zhai, J. S. Fossey, and Y. T. Long\*, Batch fabrication of disposable screen-printed SERS arrays, *Lab Chip*, 2012, 12(5), 876 - 881. (IF=5.995)