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Authors: Rui Wen, Yang Li, Meicheng Zhang, Xinghua Guo, Xing Li, Xiaofeng Li, Jun Han, Sheng Hu, Wang Tan, Lijian Ma, Shoujian Li



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**Graphene-synergized 2D covalent organic framework for
adsorption: a mutual promotion strategy to achieve stabilization
and functionalization simultaneously**

Rui Wen ^a, Yang Li ^a, Meicheng Zhang ^a, Xinghua Guo ^a, Xing Li ^a,
Xiaofeng Li ^a, Jun Han ^b, Sheng Hu ^b, Wang Tan ^a, Lijian Ma ^{a, *},
Shoujian Li ^a

^a *College of Chemistry, Sichuan University, Key Laboratory of Radiation Physics &
Technology, Ministry of Education, Chengdu, 610064, P. R. China*

^b *Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics,
Mianyang, 621900, P. R. China*

* Corresponding author at: College of Chemistry, Sichuan University, No. 29
Wangjiang Road, Chengdu, 610064, P. R. China

* E-mail: ma.lj@hotmail.com

Tel: +86-28-8541 2329

Fax: +86-28-8541 2907

Highlights

- An in-situ loading and mutual promotion strategy was proposed.
- An oxime-modified graphene-synergized covalent organic framework was obtained.
- The composite achieved the synergistic improvement of stability and

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