



Cite this: *Chem. Commun.*, 2022,
58, 8000

DOI: 10.1039/d2cc90238a

rsc.li/chemcomm

Retraction: Single gold nanostars with multiple branches as multispectral orientation probes in single-particle rotational tracking

Geun Wan Kim^a and Ji Won Ha^{*ab}

Retraction of 'Single gold nanostars with multiple branches as multispectral orientation probes in single-particle rotational tracking' by Geun Wan Kim *et al.*, *Chem. Commun.*, 2021, **57**, 3263–3266, <https://doi.org/10.1039/D1CC00731A>.

We, the named authors, hereby wholly retract this *Chemical Communications* article. The manuscript was submitted without the permission of Prof. Teri Odom's research group at Northwestern University where the work was conducted. Professor Teri W. Odom is the rightful owner of the reported work.

Signed: Geun Wan Kim and Ji Won Ha

Date: 10th June 2022

Retraction endorsed by Richard Kelly, Executive Editor, *Chemical Communications*

^a Advanced Nano-Bio-Imaging and Spectroscopy Laboratory, Department of Chemistry, University of Ulsan, 93 Daehak-ro, Nam-gu, Ulsan 44610, Republic of Korea.
E-mail: jwaha77@ulsan.ac.kr; Fax: +82 52 712 8002; Tel: +82 52 712 8012

^b Energy Harvest-Storage Research Center (EHSRC), University of Ulsan, 93 Daehak-ro, Nam-gu, Ulsan 44610, Republic of Korea

