

Synthesis, Characterization and Spectroscopic Studies of
Luminescent L-Valine Modified Alkynyl Based Cyclometalated
Gold(III) Complexes with Gelation Properties Driven by π - π
Stacking, Hydrogen-Bonding and Hydrophobic-Hydrophobic
Interactions

Steven Kin-Lok Siu, Charlotte Po, King-Chin Yim, Vonika Ka-Man Au and Vivian Wing-Wah Yam*

Institute of Molecular Functional Materials [Area of Excellence Scheme, University Grants Committee
(Hong Kong)] and Department of Chemistry,
The University of Hong Kong, Pokfulam Road, Hong Kong, P. R. China

E-mail: wwyam@hku.hk

Supporting Information

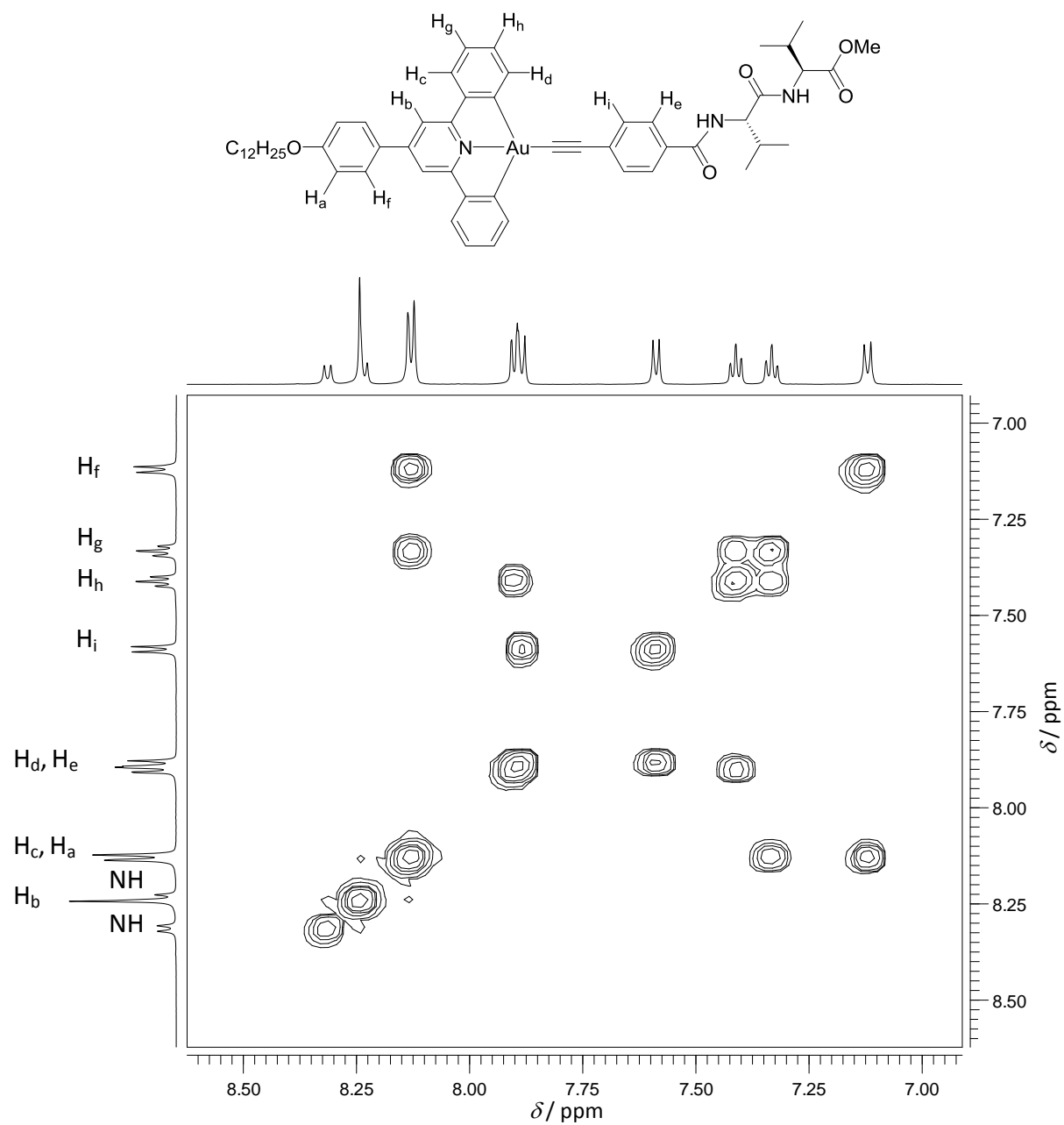


Figure S1 2D ^1H - ^1H COSY NMR spectrum of the complex **7** in DMSO-d_6 .

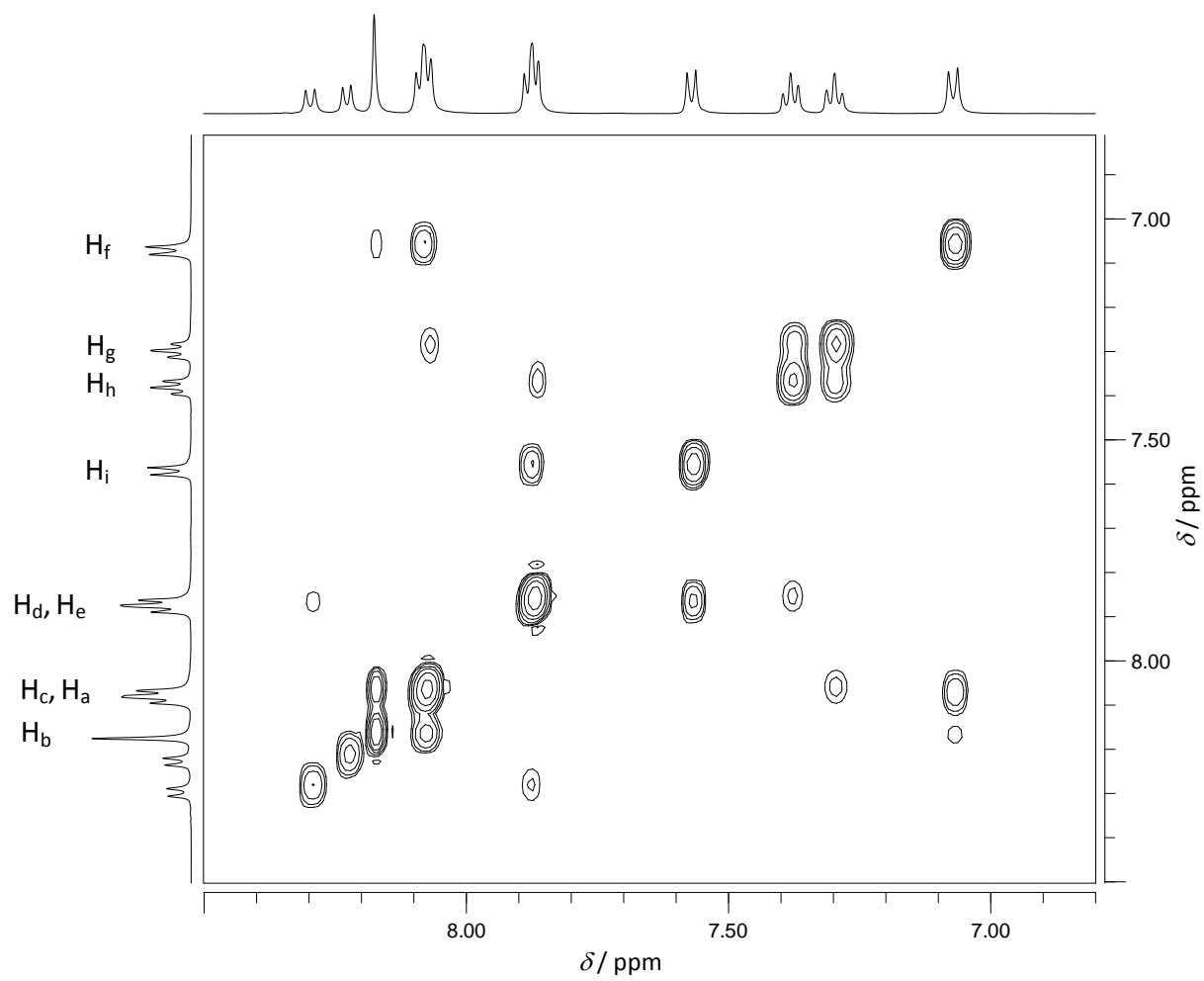


Figure S2 2D ^1H - ^1H NOESY NMR spectrum of the complex **7** in DMSO-d_6 .

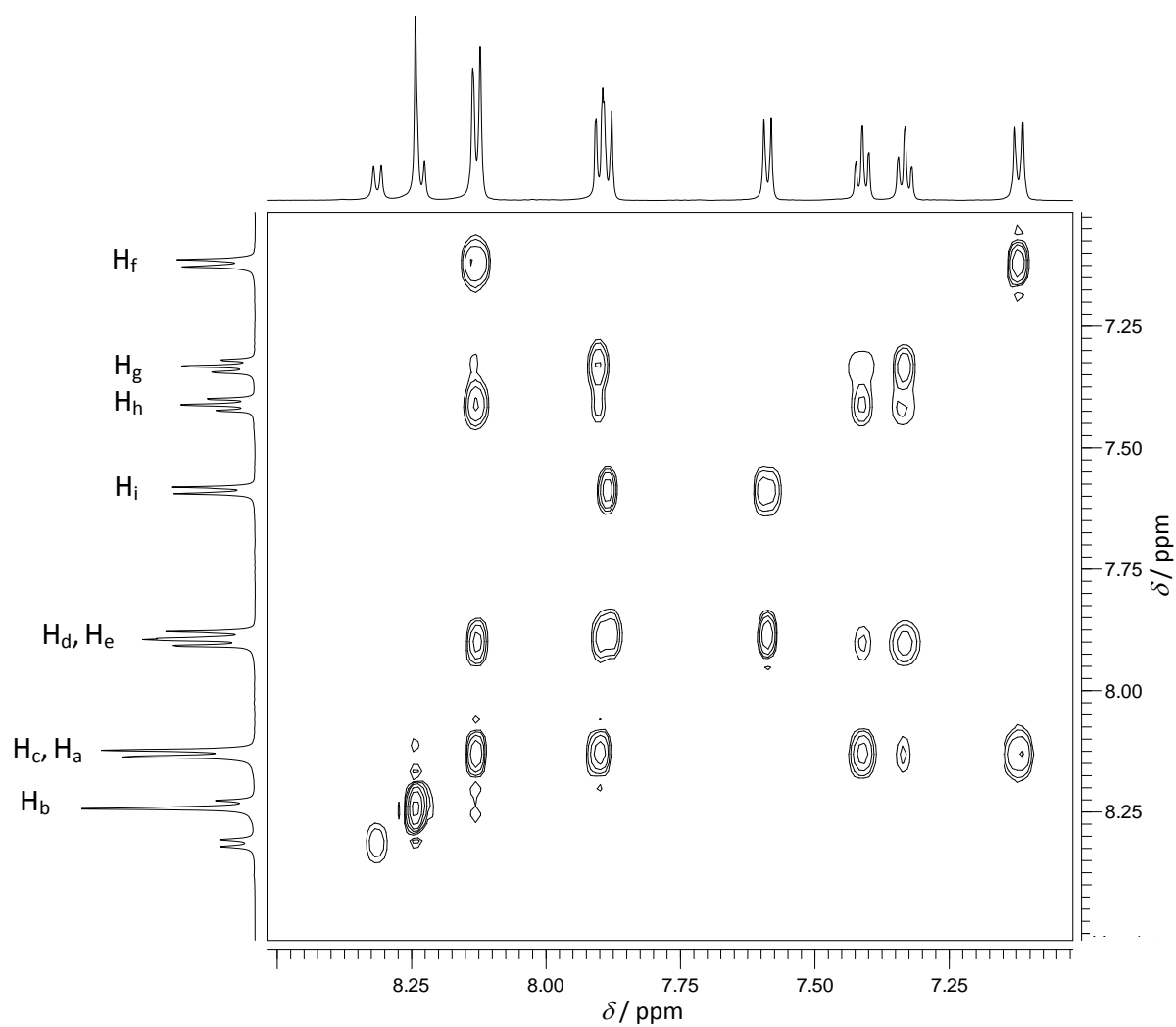


Figure S3 2D ^1H - ^1H TOCSY NMR spectrum of the complex **7** in DMSO-d_6 .

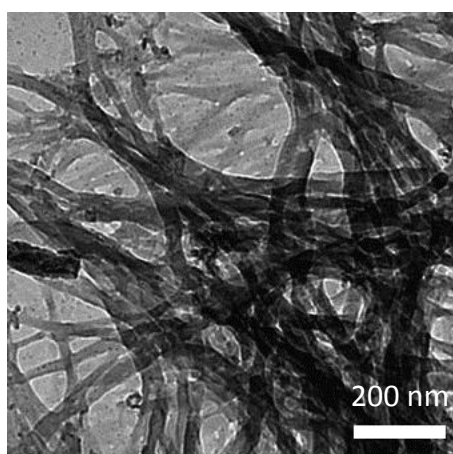


Figure S4 TEM image of metallogel of complex **5** in DMSO .

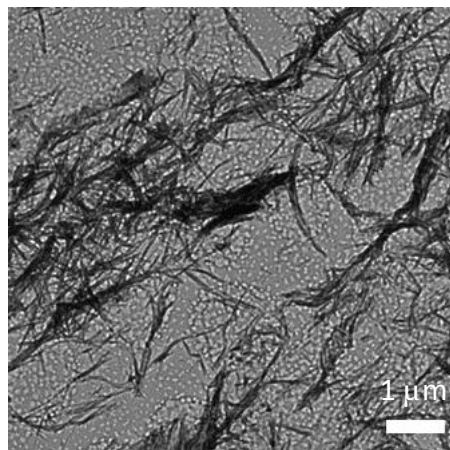


Figure S5 TEM image of metallogel of complex **8** in DMSO.

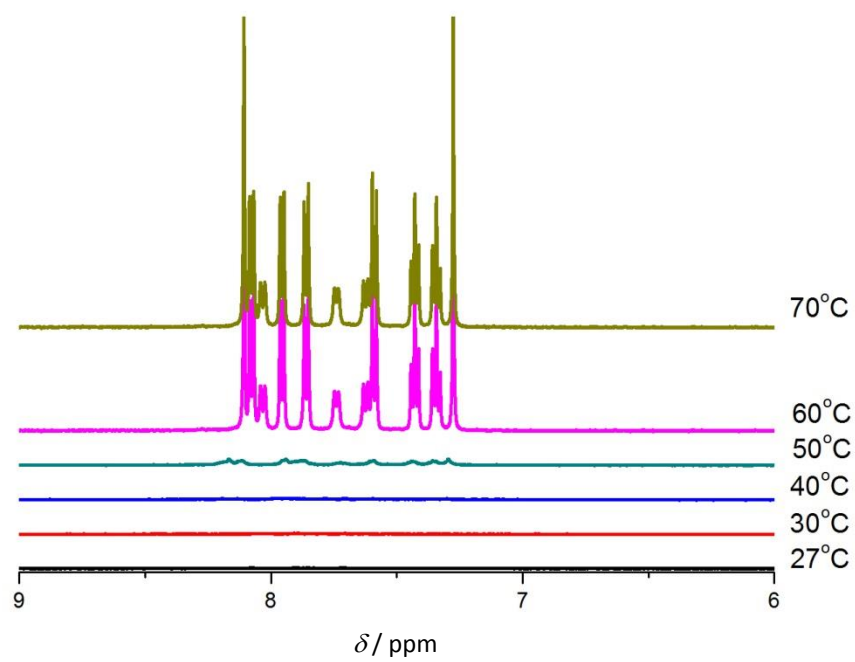


Figure S6 Variable-temperature ¹H NMR spectra of complex **9** in DMSO-d₆.

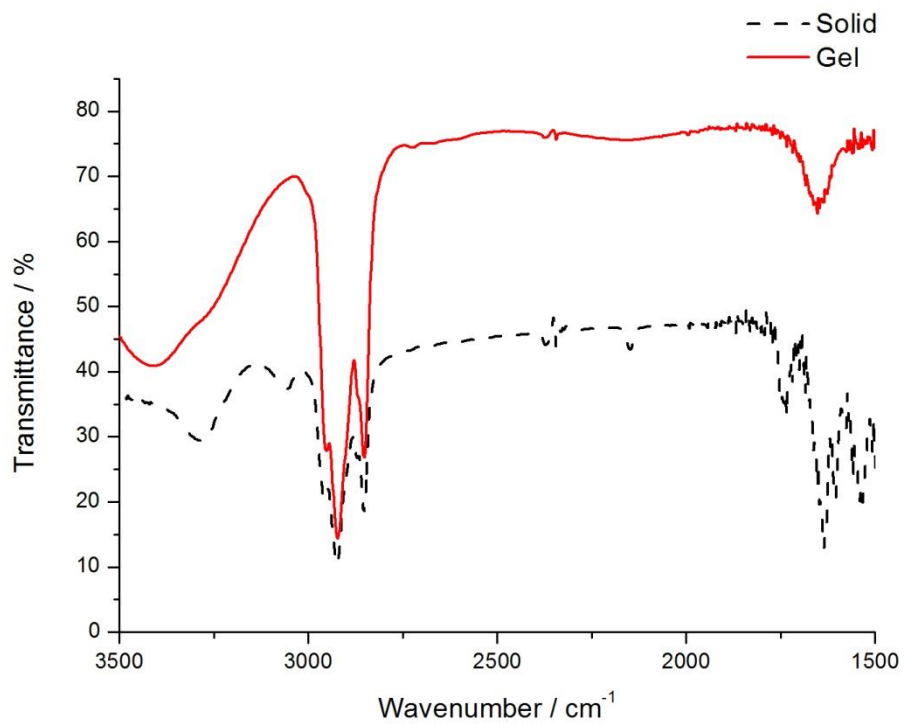


Figure S7 IR spectra of complex 9 in solid (dotted line) and gel state (solid line).

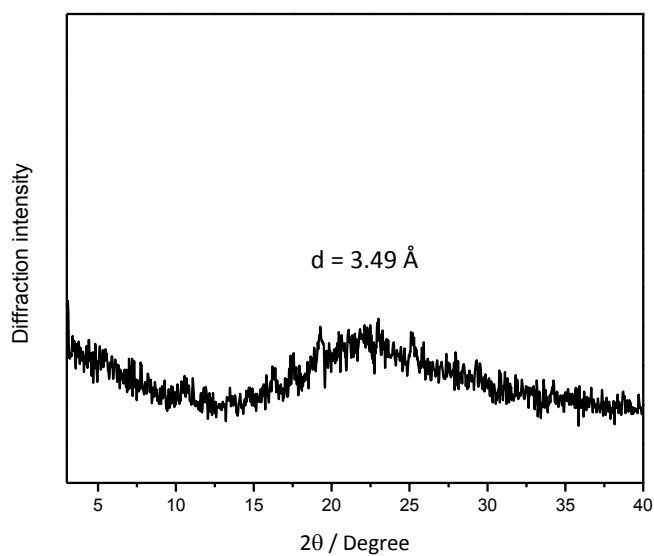


Figure S8 XRD pattern of complex 7.

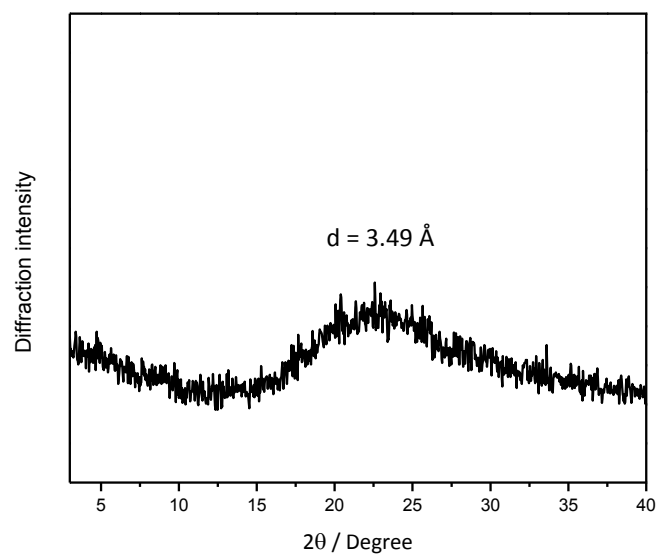


Figure S9 XRD pattern of complex **9**.