

# CERTIFICATE

#### **OF PARTICIPATION**

this is to certify that

Hendrik Oktendy Lintang

participated as a

## PRESENTER

#### In Inffernational Conference on Chemistry And Material Science (IC2MS)

held on 4-5 November 2017 in Malang, Indonesia, organized by Brawijaya University



Dean of Faculty of Science



Anna Safitri, Ph.D. The IC2MS Chair



## LETTER OF ASSIGNMENT

No: 346/MACHUNG/ST/X/2017

The Rector of Universitas Ma Chung hereby assigns:

Name	:	Dr. Eng. Hendrik Oktendy Lintang, S.Si., M.Eng.
Employee's Number		20160017
Position		Principal Investigator PUI MRCPP

to participate in the **International Conference on Chemistry and Material Science (IC2MS) 2017 as Oral Presenter** with abstract entitled "**Trinuclear Group 11 Pyrazolate Complexes with Supramolecular Assembly for Phosphorescent Chemosensors of Benzene Vapors**" organized by Department of Chemistry, Faculty of Mathematics and Natural Sciences (FMIPA), Brawijaya University which is held on 4-5 November 2017 in Ijen Suites Resort & Convention Hotel, Malang.

He has to submit an official report when returns to work.

Please be informed.

Malang, 31 October 2017 Rector,



Dr. Chatief Kunjaya

Acknowledged by, AKULTAS MIP URUSAN KIMIP (Name)

CC:

- 1. Vice Rectors
- 2. Ma Chung Research Center for Photosynthetic Pigments (MRCPP)
- 3. Human Resource Management

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#### **Volatile Organic Compounds (VOCs)**

VOCs are commonly used as ingredients in household products or in industrial processes where they normally get vaporize at room temperature as toxic and organic vapors as well as non-organic vapor

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# Conclusions Successful synthesis of trinuclear pyrazolate complexes with different Group 11 metal ions at the pyrazole rings as a powder with different color appearances under daylight in high yield. Successful characterization of phosphorescent properties of trinuclear group 11 pyrazolate complexes as orange, dark

- trinuclear group 11 pyrazolate complexes as orange, dark green and reddish emission with lifetime at microsecond and large Stokes shifts.
- 3. Successful investigation of sensing capability of trinuclear group 11 pyrazolate complexes with chemosensors 2(Au) as the best chemosensor for detection of benzene with quenching of emission intensity in 81%.

Ma Chung Research Center



#### MOLECULAR PHOTOCHEMOSTRY RESEARCH GROUP

# THANK YOU.....

#### **O** Doctoral Students (7):

- Juan Matmin (Completed PhD)
- Norsahika Mohd Basir (Completed PhD)
- O Nur Fatiha Ghazalli (D3)
- Mohamad Azani (D3)
- Nurliana Roslan (D3)
- Abdul Hamid Umar (D3)
- Nurul Husna Sabran (D2)
- Master Students (1):
  - Goh Cheow Kit (M2)

