

Oscar Chen (Iu-Fan Chen)

Ph.D in Chemistry
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Education

Sep. 2013 – Jun. 2018	National Taiwan University (NTU) Double Major: B.S. in Chemistry and B.S. of Engineering in Materials Science and Engineering (MSE)	Taipei
Jul. 2019 – Present	University of California, Berkeley (UC Berkeley) Ph.D. in Chemistry	California, U.S.

Research Experience

Mar. 2016 – Present	Frontier Materials Laboratory , Professor Wei Fang Su, NTU 1. Two-dimensional (2D) conductive metal-organic frameworks (MOFs): Synthesized benzenhexathiol (BHT) with high yield by one-pot method Developed the Ag ₃ BHT ₂ MOF thin film with high conductivity Characterized MOF films by FT-IR, XPS, XRD and SEM 2. Polymer volatile organic compounds (VOCs) sensor: Fabricated transistors by fluorinated isoindigo polymers (P2FTI, P4FTI and P6FTI) Employed polymer thin film transistors (TFTs) on testing VOCs	Taipei
Jul. 2015 – Feb. 2016	Optoelectronic Polymer Materials Laboratory , Professor Wei-Fang Su, NTU 3. Synthesized and characterized poly(3-hexylthiophene) (P3HT): Learned polymer synthesis, purification skills, and instruments operation Characterized polymer by ¹ H NMR and GPC	Taipei

Publications

Journals

Dec. 2018	Iu-Fan Chen , Chun-Fu Lu, and Wei-Fang Su. Highly conductive 2D metal-organic framework thin film fabricated by liquid-liquid interfacial reaction using one-pot synthesized benzenhexathiol. <i>Langmuir</i> . 2018 , DOI: 10.1021/acs.langmuir.8b03938
Oct. 2018	Chun-Fu Lu, Song-Fu Liao, Iu-Fan Chen , Chin-Ti Chen, Chi-Yang Chao, and Wei-Fang Su Highly sensitive VOCs sensor based on direct interaction with fluorinated isoindigo conjugated polymers, <i>Adv. Mater.</i> 2018 (Under review)

Conferences

Jun. 2018	Iu-Fan Chen , Chun-Fu Lu, and Wei-Fang Su Highly conductive 2D metal-organic framework thin film fabricated by liquid-liquid interfacial reaction using one-pot synthesized benzenhexathiol Poster presentation, <i>Spring Meeting of Europe Materials Research Society (E-MRS)</i>
Nov. 2018	Chun-Fu Lu, Iu-Fan Chen , and Wei-Fang Su Tuning the Morphology and Functionality of Isoindigo Donor-Acceptor Polymer Film for High Sensitivity Ammonia Sensor Poster presentation, <i>Annual Meeting of Materials Research Society-Taiwan (MRS-T)</i>
Nov. 2017	Iu-Fan Chen , Chun-Fu Lu, and Wei-Fang Su Glucose sensor based on 2D conductive benzenhexathiol metal-organic frameworks Poster presentation, <i>Conference of International Union of Materials Research Societies (IU-MRS)</i>

Mar. 2017 **Iu-Fan Chen**, Chun-Fu Lu, and Wei-Fang Su
Synthesis and applications for 2D thiol-based metal-organic frameworks
Oral presentation, *Undergraduate Research Symposium, NTU*

Honors

Nov. 2017	Excellent Poster Award , Conference of IU-MRS Title: <i>Glucose sensor based on 2D conductive benzenehexathiol metal-organic frameworks</i>	Taipei
Nov. 2017	1st Place Award , Materials Knowledge Contest Hold by Materials Research Society – Taiwan (MRS-T).	Kaohsiung
Jul. 2017	Altruistic Award , College of Engineering, NTU Recommended by Chairman of Dept. MSE for special contribution to school and peers.	Taipei
May 2017	1st Place Poster Award , Undergraduate Research Symposium, NTU Title: <i>Synthesis and applications for 2D thiol-based metal-organic frameworks</i>	Taipei
Aug. 2016 – Jul. 2017	Academicians Research Fellowship , Academia Sinica One-year fellowship from Academia Sinica, Taiwan.	Taipei
2012 and 2013	Presidential Award , NTU Ranked in the top five percent of the class.	Taipei