

Curriculum Vitae

Ming-Jye Wang

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EDUCATION

Ph. D. 1994, Physics Department, National Tsing-Hua University, Hsin-Chu, Taiwan
B. Sc. 1989, Physics Department, National Tsing-Hua University, Hsin-Chu, Taiwan

POSITION AND EXPERIENCE

2009/09 – 2017/06 Deputy director, Institute of Astronomy & Astrophysics, Academia Sinica, Taipei, Taiwan
2009/02 – 2013/09 EACOA Secretary of Institute of Astronomy and & Astrophysics, Academia Sinica, Taipei, Taiwan
2009/02 – now Research Fellow, Institute of Astronomy & Astrophysics, Academia Sinica, Taipei, Taiwan
2004/04 – 2009/01 Associate Research Fellow, Institute of Astronomy & Astrophysics, Academia Sinica, Taipei, Taiwan
1999/08 – 2004/03 Assistant Research Fellow, Institute of Astronomy & Astrophysics, Academia Sinica, Taipei, Taiwan
1994/10 –2009/08 Postdoctoral fellow, Institute of Astronomy & Astrophysics, Academia Sinica, Taipei, Taiwan

CURRENT RESEARCH ACTIVITIES

1. Lead wSMA project in ASIAA – An upgrade project of SMA receiver
2. Develop THz calibration source – For the SAFARI (SPICA) project
3. Develop detector and receiver in THz – A possible instrument of GLT on the high site
4. Study novel superconductors – material synthesis, structure analysis, and physical property study
5. Develop Future receiver technology – Si-based micromachining process, membrane process, and integrated superconducting circuit

SUPERVISION:**Postdocs:**

Hsiao-Wen Chang: 2015/11/10 ~ now

Ting-Hang Pei: 2019/06/10 ~ now

Engineers:

Chuang-Ping Chiu: 2011/06/01 ~ now

Wei-Chun Lu: 2011/06/01 ~ now

Kuan-Yu Liu: 2014/08/01 ~ now

Chun-Lun Wang: 2015/09/01 ~ now

Student:

Yan-Jun Wang (master): 2021/02/01 ~ now

Supervised Postdocs:

Chun-Hsuan Lin: 2019/05/13 ~ 2019/12/31

Yen-Ru Huang: 2015/01/01 ~ 2017/12/31

Shou-Hsien Weng: 2013/09/11 ~ 2016/10/31

Chun-An Tseng: 2013/01/01 ~ 2013/12/31

Hsian-Hong Chang: 2010/09/20 ~ 2014/10/31

Supervised students:

Hsun Hsieh (Master): 2016/08/01 ~ 2018/06/30

“Fabrication and Superconductivity of Epitaxial Ultra-thin δ -NbN Films on 3C-SiC/Si Substrate”

Hsian-Hong Chang (PhD): 2006/08/01 ~ 2010/06/30

“Transport properties of tetragonal $\text{FeSe}_{1-x}\text{Te}_x$ superconducting thin films”

Yen-Pin Chang (Master): 2007/08/09 ~ 2009/07/31

“Fabrication and study of silicon microlens”

Cho-Wei Chen (Master): 2006/08/09 ~ 2008/07/31

“Application of Nano-sphere Lithography on Nb superconducting devices”

TECHNOLOGY DEVELOPMENT**- Clean Room Facility:**

Construct and operate class 100, 1000, and 10K cleanroom and facility for device fabrication, ~ NTD 100,000,000.

- **Nb/AlO_x/Nb SIS junction:** wide J_c range (100~20k A/cm²)
Fabricated devices:
 - SQUID** (Superconducting Quantum Interference Device) (collaboration with Physics, NTHU)
 - Sub-mm mixers** for SMA, KVN, JCMT
 Developing devices:
 - Microwave SIS mixer** for quantum computing application (collaboration with IoP, AS)
 - JTWPA** (Josephson traveling wave parametric amplifier) for quantum computing (collaboration with Physics, NTHU) and astronomical sub-mm receiver
- **NbN superconducting ultrathin film:** few nanometers with T_c higher than 10 K
Fabricated devices:
 - HEB (hot-electron-bolometer) mixer** for 1.4 THz detection
 Developing devices:
 - SSPD** (superconducting single photon detector) for quantum communication (collaboration with Physics, NTHU)
 - TWPA** (traveling wave parametric amplifier) for quantum computing application (collaboration with IoP, AS)
- **SiN_x membrane:**
Fabricated device:
 - Microlamp** for the calibration source of SAFARI/SPICA
 Developing device:
 - Micro-mesh membrane substrate** for X-ray heating experiment
- **Thin Si substrate:** down to 20 um
Fabricated devices:
 - Sub-mm directional couplers** for wSMA receiver (low and high bands)
 - Sub-mm LO attenuators** for wSMA receiver (low and high bands)
 - Sub-mm OMT** (orthomode transducer) for wSMA receiver (high band)

PROFESSIONAL ACTIVITIES

1. Editor of Journal of Chinese Physics: 2019 ~ now
2. Steering Committee Member of East Asia Symposium on Superconductive Electronics (EASSE): 2015 ~ now
3. Member, Consultation Committee, EE Department, NCU: 2015 ~ now
4. Steering Committee Member of the Workshop on Sub-Millimeter Wave Receiver Technologies in East Asia: 2000 ~ 2020

5. Member of organizing committee of the 13th Asia-Pacific Radio Science Conference (APRASC-13), 2013: Chair of Commission J
6. Organizer of The Workshop on Sub-Millimeter Wave Receiver Technologies in East Asia, 2000, 2004, 2008, and 2017.
7. Paper Reviewer of Journals:
 - New Journal of Physics
 - Proceedings of the National Academy of Sciences of the United States of America
 - Physica Status Solidi - Rapid Research Letters
 - 2D Materials
 - Nanoscale Research
 - Journal of Materials Processing Technology
 - Materials Chemistry and Physics
 - ACS applied electronic materials
 - Journal of the Chinese Chemical Society
 - Microelectronic engineering journal
8. Referee for research proposals of Ministry of Science and Technology, Taiwan

LIST OF INTRAMURAL AND EXTRAMURAL FUNDING

1. 20000801~20011031: **PI**, “The Fabrication and Physical Property Study of Ultra-small SIS Junction”, *National Science Council, Taiwan*, **NTD 604,000**.
2. 20010801~20030331: **Co-PI**, “Study of Novel Transition Metal Oxide (1/3), sub-project 1 – The Physical Property and Application of Novel Transition Metal Oxide”, *National Science Council, Taiwan*, **NTD 15,437,500**.
3. 20020101~20030331: **PI**, “The Fabrication and Study of High Tc Superconducting Microwave Mixers”, *National Science Council, Taiwan*, **NTD 570,000**.
4. 20020801~20040531: **Co-PI**, “Study of Novel Transition Metal Oxide (2/3), sub-project 1 – The Physical Property and Application of Novel Transition Metal Oxide”, *National Science Council, Taiwan*, **NTD 14,998,900**.
5. 20090801~20101031: **Co-PI**, “Subsequent Research and Development of Scanning SQUID Tunneling Microscope-Single-atom tips, Superconducting tips, and other novel improvements (2/3)”, *National Science Council, Taiwan*, **NTD 7,000,000**.
6. 20100801~20111031: **Co-PI**, “Subsequent Research and Development of Scanning SQUID Tunneling Microscope-Single-atom tips, Superconducting tips, and other novel improvements (3/3)”, *National Science Council, Taiwan*, **NTD 6,000,000**.
7. 20100801~20151031: **Co-PI**, “ALMA-Taiwan”, *National Science Council, Taiwan*, **NTD 335,050,000**.
8. 20110801~20140731: **PI**, “Physical Properties and Applications of Modified Graphene

- Nano-device in THz regime”, *National Science Council, Taiwan*, **NTD 2,206,000**.
9. 20120821~20130731: **Co-PI**, “Study of the defects and physical properties of CVD grapheme”, *National Science Council, Taiwan*, **NTD 721,000**.
 10. 20130801~20160731: **Co-PI**, “The phase diagram and superconducting mechanism of Fe-based superconductors”, *National Science Council, Taiwan*, **NTD 18,366,000**.
 11. 20160801~20190731: **Co-PI**, “Study of the correlation between ion-vacancy and physical properties in transition-metal chalcogenides”, *National Science Council, Taiwan*, **NTD 8,723,000**.
 12. 20170801~20180731: **PI**, “Calibration source development of phase A study of SPICA (Space Infrared telescope for Cosmology and Astrophysics) project”, *Ministry of Science and Technology, Taiwan*, **NTD 1,817,000**.
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PRESENTATIONS IN INTERNATIONAL CONFERENCE

- 2020 The East-Asia Submillimeter-wave Receiver Technology workshop (virtual), 24-25 Nov. (contributed)
“The Current Status of wSMA Receivers”
- 2019 The East-Asia Submillimeter-wave Receiver Technology workshop, 25-26 Nov., Nanjing, China (**invited**)
“The progress of wSMA Receivers”
- 2019 The 11th International Conference on Magnetic and Superconducting Materials (MSM19), August 17-24, Seoul National University, Seoul, Korea (contributed)
“Superconductivity of Hard Hexagonal ϵ -NbN Epitaxial Films”
- 2019 The SPICA/SAFARI Consortium Meeting, 26/10 ~ 1/11, Paris, France (contributed)
“SAFARI Calibration Source Assembly”
- 2019 The East Asia Symposium on Superconducting Electronics (EASSE), 8-11 Oct., Beijing, China (contributed)
“Towards Full RF-Bandwidth mm-Wavelength Receiver for Astronomical Telescope”
- 2018 East Asian ALMA Development Workshop 2018 and East Asian ALMA Science Workshop 2018, December 14-15, Osaka, Japan (**invited**)
“The Wide IF Bandwidth wSMA Receiver”
- 2018 EA mm&sub-mm Wave Receiver Technology Workshop, Dec 12-13, Hyogo, Japan (contributed)
“The Progress of wSMA project”
- 2018 SPICA/SAFARI consortium meeting, September 24-26, Madrid, Spain (contributed)
“ SAFARI Calibration Source”

- 2018 The 12th International Conference on Ceramic Materials and Components for Energy and Environmental Applications, July 22-27, Singapore **(invited)**
 “Growth and Superconductivity of Few Monolayer NbN Films - Superconducting □-NbN”
- 2018 SPICA/SAFARI consortium meeting, May 30-June 1, Groningen, Netherland
 (contributed)
 “ The Progress of Calibration Source Development for SAFARI”
- 2017 EA mm&sub-mm Wave Receiver Technology Workshop, November 28-30 Nanjing, China (contributed)
 “The New SMA Receiver – wSMA”
- 2017 OCPA9, July 16-20, Beijing, China **(invited)**
 “Fe-Vacancy and Superconductivity in $K_{2-x}Fe_{4+y}Se_5$ system”
- 2016 EMN Meeting on Alloys and Compounds 2016, October 10-14, Melbourne, Australia **(invited)**
 “Fe-Vacancy and Superconductivity in $K_{2-x}Fe_{4+y}Se_5$ system”
- 2016 APRASC2016/EA mm&sub-mm Wave Receiver Technology Workshop, August 21-25, Seoul, Korea (contributed)
 “Effect of the Al Cap Layer on Nb-Al-AlO_x-Al-Nb Josephson Junction with High Critical Current Density”
- 2015 EA mm&sub-mm Wave Receiver Technology Workshop, November 22-25 Nanjing, China (contributed)
 “The Performance of a Compact Receiver with Dual Polarization SIS Mixers at 350 GHz”
- 2015 East Asia Symposium on Superconductor Electronics (EASSE2015), November 4-6, Deajeon, Korea **(invited)**
 “Heating Effect on SIS Junction and Optimization of Fabricating Process”
- 2015 Workshop on Advanced High-frequency Devices, October 7, Taipei, Taiwan **(invited)**
 “Integrated Dual Polarization (IDP) SIS Mixers at 350 GHz”
- 2014 EA mm&sub-mm Wave Receiver Technology Workshop, December 14-18 Iseshima, Japan (contributed)
- 2014 IRMMW-THz-2014 meeting, September 14-21, Tucson, AZ (contributed)
 “Graphene-based THz Photodetector-poster”
- 2013 East Asia Symposium on Superconductor Electronics (EASSE2013), October 23-26, Taipei, Taiwan **(invited)**
 “Hot-Electron-Bolometer (HEB) Mixers based on Superconducting $(Nb_{1-x}Ti_x)N$ Ultrathin Film for THz detection”

- 2013 APRASC2013/EA mm&sub-mm Wave Receiver Technology Workshop, September 3-7, Taipei (contributed)
 “Property of Graphene Under THz Illustration – A Candidate of THz Detector”
- 2013 Workshop on Advanced High-frequency Devices, August 8, Yili, China (**invited**)
 “Terahertz Detector based on Hot Electron Effect in Graphene”
 “The development of multi-pixel receiver cartridge with 1.5 THz HEB mixers”
- 2012 Cross-strait High Frequency Superconducting Device Workshop, August 6, Taipei, Taiwan (**invited**)
 “SIS Mixers and Its Astronomical Applications”
- 2012 SMA Users Meeting, January 12, Taipei, Taiwan (**invited**)
 “Mixer Development for SMA”
- 2011 ASIAA-SHAO workshop, December 8-10, Taipei, Taiwan (**invited**)
 “Introduction of Superconducting Laboratory”
- 2011 EA mm&sub-mm Wave Receiver Technology Workshop, December 4-7 Seoul, Korea (contributed)
- 2011 OCPA7, August 1-5, Kaohsiung, Taiwan (**invited**)
 “Fe(Se_{1-x}Te_x) Superconductors – Properties and Issues”
- 2010 EA mm&sub-mm Wave Receiver Technology Workshop, November 14-16 Nagoya, Japan (contributed)
 “Development of Superconducting Devices in ASIAA: Current status and Future Plans”
- 2009 EA mm&sub-mm Wave Receiver Technology Workshop, November 15-21, Wuxi, China (contributed)
 “ALMA band-10 mixer development in ASIAA”
- 2008 EA mm&sub-mm Wave Receiver Technology Workshop, January 17-18, Seoul, Korea (contributed)
 - Present the current status of the development of SIS mixer in ASIAA
- 2008 The PDR meeting of ALMA Band-10 receiver, Mitaka, Japan (invited)
 - Present the progress of SIS mixer development for ALMA Band-10
- 2007 EA mm&sub-mm Wave Receiver Technology Workshop, January 17-19, Osaka, Japan (contributed)
 - Present the progress of ALMA Bnad-10 mixer development
- 2007 Cross-the-Strait Telescope and Astronomical Instrument Conference, NCU, Taiwan (contributed)
 - Present the SIS mixer and sub-mm wave detection
- 2007 ALMA Band-10 Mixer Development Workshop, December 3-4, Mitaka, Japan (invited)
 - Present the progress of ALMA Bnad-10 mixer development

- 2006 Taiwan International Conference on Superconductivity and Low temperature Physics Conference, August 1-3, I-Lan, Taiwan (contributed)
- 2006 Applied Superconductivity Conference, August 27-September 1, Seattle, US (contributed)
- 2005 EA mm&sub-mm Wave Receiver Technology Workshop, December 8-9, Nanjing, China (contributed)
- Present the progress of SIS mixer development in ASIAA
- 2004 EA mm&sub-mm Wave Receiver Technology Workshop, December 6-7, Taipei, Taiwan (contributed)
- Present the SIS mixer work in ASIAA
- 2003 IRMMW2003, September 28- Oct 2, Otsu, Japan (contributed)
- Present the results on 600 GHz mixer
- 2003 EA mm&sub-mm Wave Receiver Technology Workshop, November 27-28, Daejeon, Korea (contributed)
- Present the status of SIS mixer development in ASIAA
- 2002 SPIE conference: Astronomical Telescopes + Instrumentation, August 22-26, Hawaii, US (contributed)
- Present the results on 600 GHz mixer
- 2001 Workshop on sub-mm wave receiver, March 12-13, Nanjing, China (invited)

COMPLETE LIST OF PUBLICATIONS (2021.06)

(Citation source: Google Scholar)

2021

1. Chandra Shekar Gantepogu, Chia-Ming Yang, Peramaiyan Ganesan, In-Gann Chen, **Ming-Jye Wang***, Judith MacManus-Driscoll, Seung-Hyun Moon, Connie Wang, and Maw-Kuen Wu, "Improvement of the value and anisotropy of critical current density in $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ coated conductors with self-assembled 3-dimensional BaZrO_3 nanostructure", Materials Today Physics, June 2021 accepted (**corresponding author**)
2. Chun-Lun Wang, Chuang-Pin Chiu, Pin-Jie Huang, Shiang-Yu Wang, **Ming-Jye Wang***, "High Performance 1-10 THz Integrating Sphere", Applied Optics, 60(13) May 1, 2021 (Citation: 0) (**corresponding author**)
3. Hsiao-Wen Chang, Vankayala Krishna Ranganayakulu, Syu-You Guan, Peng-Jen Chen, Min-Nan Ou, Yang-Yuan Chen, Tien-Ming Chuang, Chia-Seng Chang, Maw-Kuen Wu, **Ming-Jye Wang***, "Dense rotational twins in superconducting (111)-orientated $\delta\text{-NbN}$ epitaxial films on 4H-SiC substrates", Superconductor Science and Technology, 34(4), 045019, Mar.12, 2021 (Citation: 0) (**corresponding author**)

2020

4. Shiang-Yu Wang, **Ming-Jye Wang**, Tse-Jun Chen, Yen-Pin Chang, Yen-Ru Huang, Chun-Lun Wang, Chuang-Ping Chiu, Ting-Hang Pei, Jaap Evers, David Arrazola, Martin Eggens, Sylvain Martin, Willem Jellema, "The calibration source assembly for SPICA/SAFARI instrument", International Society for Optics and Photonics, 11443, 114436H, 13 Dec. 2020 (Citation: 0)
5. Kuan-Yu Liu, **Ming-Jye Wang**, CY Edward Tong, Per Friberg, Gary A Fuller, Tse-Jun Chen, Yen-Pin Chang, Wei-Chun Lu, Dan Bintley, Ming-Tang Chen, Chih-Chiang Han, Sheng-Feng Yen, Jessica Dempsey, Shaoliang Li, Craig Walther, Vernon DeMattos, Jamie Cookson, Graham Bell, Xue-Jian Jiang, Harriet Parson, Izumi Mizuno, Taishi Nammoto, Weiye Zhong, "SIS mixers study on Heterodyne Array Receiver Program (HARP) at JCMT", Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy X, **11453**, 114533R, 13 Dec. 2020 (Citation: 0)
6. Chao-Te Li, C-YE Tong, **Ming-Jye Wang**, Tse-Jun Chen, Yen-Pin Chang, Sheng-Feng Yen, Jen-Chieh Cheng, Wei-Chun Lu, Yen-Ru Huang, "Metal mesh IR filter for wSMA", Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy X, **11453**, 114534J, 13 Dec. 2020 (Citation: 0)
7. Lingzhen Zeng, Wei-Chun Lu, Paul K Grimes, Tse-Jun Chen, Yen-Pin Chang, Cheuk-

yu Tong, **Ming-Jye Wang**, “A Silicon Chip-Based Waveguide Directional Coupler for Terahertz Applications”, IEEE Transactions on Terahertz Science and Technology, **10**(6) 698-703, 2020 (Citation: 0)

8. Keng-Yu Yeh, Tung-Sheng Lo, Phillip M Wu, Kuei-Shu Chang-Liao, **Ming-Jye Wang**, Maw-Kuen Wu, “Magnetotransport studies of Fe vacancy-ordered $\text{Fe}_{4+\delta}\text{Se}_5$ nanowires”, Proceedings of the National Academy of Sciences, 117(23) 12606-12610, Jun 9, 2020 (Citation: 2)

2019

9. Prem Chandan, Chung-Chieh Chang, Kuo-Wei Yeh, Chui-Chang Chiu, Dong-Ze Wu, Tzu-Wen Huang, Phillip M Wu, Po-Wei Chi, Wei-Fan Hsu, Kai-Han Su, Yu-Wen Lee, Hua-Shu Chang, **Ming-Jye Wang**, Heng-Liang Wu, Horng-Yi Tang, Maw-Kuen Wu, “Voltage fade mitigation in the cationic dominant lithium-rich NCM cathode”, Communications Chemistry, **2**(1), 1-7. (Citation: 2)
10. Chun-Hao Huang, Chin-Wei Wang, Chung-Chieh Chang, Yung-Chi Lee, Gwo-Tzong Huang, **Ming-Jye Wang***, and Maw-Kuen Wu, “Anomalous Magnetic Properties in Mn(Se, S) System”, Journal of Magnetism and Magnetic Materials, 483, 205-211 (Citation: 1) (**corresponding author**)
11. Zhong JiaQiang, Zhang Wen, Miao Wei, Liu Dong, Wang Zheng, Duan WenYing, Wu Feng, Zhang Kun, Yao QiJun, Shi Shengcai, **Wang Ming-Jye**, Pajot Francois, “Fast-response superconducting titanium bolometric detectors”, IEEE Transactions on Applied Superconductivity, 29(5), 2100205, Aug. 2019 (Citation: 1)
12. Chih-Han Wang, Chih-Chien Lee, Gwo-Tzong Huang, Jie-Yu Yang, **Ming-Jye Wang**, Hwo-Shuenn Sheu, Jey-Jau Lee, Maw-Kuen Wu, “Role of the Extra-Fe in $\text{K}_{2-x}\text{Fe}_{4+y}\text{Se}_5$ superconductor”, Proceedings of National Academy of Sciences of the United States, 1815237116, 2019 Jan (DOI:10.1073/pnas.1815237116) (Citation: 7)

2018

13. Hsiung H.-I., Chao W.H, Hsu H.Y., **Wang M.-J.**, Liu H.-L., Wu M.-K*,” Observation of Iron d-orbitals Modifications in Superconducting FeSe by Raman Spectra Study”, Physica C: Superconductivity and its applications, **552**, 61-63, Sep. 15, 2018 (Citation: 2)
14. C. H. Wang, T. K. Chen, C. C. Chang, Y.C. Lee, **M. J. Wang**, K. C. Huang, P. M. Wu, M. K. Wu, “Fe-vacancy and superconductivity in FeSe-based superconductors”, Physica C: Superconductivity and its applications, **549**, 61-65, Jun. 15, 2018 (Citation: 4)

2017

15. H. W. Chang, C. L. Wang, Y. R. Huang, T. J. Chen, and **M. J. Wang***, “Growth and characterization of few unit-cell NbN superconducting films on 3C-SiC/Si substrate”, *Superconductor Science and Technology*, **30**, 115010, Oct. 4, 2017 (Citation: 4) (**corresponding author**)
16. W. H. Chao, C Ying, H. Y Chen, J Li, C. F. Wang, J. J. Lin, C. M. Tseng, **M. J. Wang**, K. K. Wu, “Growth and Superconducting Characteristics of Novel Bi_2Te_3 -based Layered Superconductor Bi_2Te_3 ”, *Science of Advanced Materials*, **9**(10), 1780-1784, 2017-10.

2016

17. S. H. Lee, T. W. Frawley, C. H. Yao, Y. C. Lai, Chao-Hung Du, P. D. Hatton, **M. J. Wang**, F. C. Chou, and D. J. Huang, “Charge and spin coupling in magnetoresistive oxygen-vacancy strontium ferrate $\text{SrFeO}_{3-\delta}$ ”, *NEW JOURNAL OF PHYSICS*, **18**, 093033, Sep. 20, 2016 (Citations: 11)
18. W. Zhang, J. Q. Zhong, W. Miao, Z. Wang, D. Liu, Q. J. Yao, S. C. Shi, T. J. Chen, **M. J. Wang**, “*Electrical Characteristics of Superconducting Ti Transition Edge Sensors*”, *JOURNAL OF LOW TEMPERATURE PHYSICS*, **184**(1), 11-16, Jul. 19, 2016 (Citation: 3)
19. Hiroyuki HIRASHITA*, Patrick M. KOCH, Satoki MATSUSHITA, Shigehisa TAKAKUWA, Masanori NAKAMURA, Keiichi ASADA, Hanyu Baobab LIU, Yuji URATA, **Ming-Jye WANG**, Wei-Hao WANG, Satoko TAKAHASHI, Ya-Wen TANG, Hsian-Hong CHANG, Kuiyun HUANG, Oscar MORATA, Masaaki OTSUKA, Kai-Yang LIN, An-Li TSAI, Yen-Ting LIN, Sundar SRINIVASAN, Pierre MARTIN-COCHER, Hung-Yi PU, Francisca KEMPER, Nimesh PATEL, Paul GRIMES, Yau-De HUANG, Chih-Chiang HAN, Yen-Ru HUANG, Hiroaki NISHIOKA, Lupin Chun-Che LIN, Qizhou ZHANG, Eric KETO, Roberto BURGOS, Ming-Tang CHEN, Makoto INOUE, and Paul T. P. HO, “First-generation science cases for ground-based terahertz telescopes”, *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*, **68**, 1, Feb. 1, 2016 (Citation: 15)

2015

20. M. K. Wu*, P. M. Wu, Y. C. Wen, **M. J. Wang**, P. H. Lin, W. C. Lee, T. K. Chen, C. C. Chang, “An Overview of the Fe-Chalcogenide Superconductors” *Journal of Physics D: Applied Physics*, **48** (2015) 323001 (14pp) (Citation: 17)
21. Huiting Lin*; Sing-Lin Wu, Ji-Wun Wang, Tse-Jun Chen, **Ming-Jye Wang**, Jeng-

- Chung Chen, Maw-Kuen Wu, Cheng-Chung Chi, "Determination of the Penetration Depth of FeSe_{0.3}Te_{0.7} Thin Films by Scanning SQUID Microscope", *Superconductor Science and Technology*, 28 (2015) 085006 (7pp). July 1, 2015, [Fulltext](#) (Citation: 2)
22. C.C. Chang, T.K. Chen, W.C. Lee, P.H. Lin, **M.J. Wang**, Y.C. Wen, P.M. Wu and M.K. Wu*, "Superconductivity in Fe-chalcogenides", *PHYSICA C*, 514 (2015) 423–434, [Fulltext](#) (Citation: 24)
23. Chih-Han Wang, Ta-Kun Chen, Chung-Chieh Chang, Chia-Hao Hsu, Yung-Chi Lee, **Ming-Jye Wang**, Phillip M. Wu and Maw-Kuen Wu*, "Disordered Fe vacancies and superconductivity in potassium-intercalated iron selenide (K_{2-x}Fe_{4+y}Se₅)", *Europhysics Letter*, 111 (2015) 27004 (Citation: 20)

2014

24. Kung-Hsuan Lin*, Kuan-Jen Wang, Chung-Chieh Chang, Yu-Chieh Wen, Dzung-Han Tsai, Yu-Ruei Wu, Yao-Tsung Hsieh, **Ming-Jye Wang**, Bing Lv, Paul Ching-Wu Chu, and Maw-Kuen Wu, "*Observation of pseudogaplike feature above T_c in LiFeAs by ultrafast optical spectroscopy*", *PHYSICAL REVIEW B*: 90, 174502, 2014-11 [Fulltext](#), (Citation: 7)
25. Chiu-Chun Tang, Hui-Ting Lin, Sing-Lin Wu, Tse-Jun Chen, **M. J. Wang**, D. C. Ling, C. C. Chi, and Jeng-Chung Chen*, "*An interchangeable scanning Hall probe/scanning SQUID microscope*", *Review of Scientific Instruments* 85, 083707, 2014-08, [Fulltext](#), (Citation: 7)
26. Ta-Kun Chen*, Chung-Chieh Chang, Hsin-Yu Tang, Hsian-Hong Chang, Yu-Ruei Wu, Min-Hsueh Wen, Y Lee, **Ming-Jye Wang**, Maw-Kuen Wu, Fu-Rong Chen, Dirk van Dyck, "*Structural characteristics and phase separation of superconducting Fe_{1+y}Se_{1-x}Te_x nanowires*", *Materials Research Express*: 1, 015026, 2014-02, [Fulltext](#), (Citation: 0)
27. H. H. Chang, C. C. Chang, Y. Y. Chiang, J. Y. Luo, P. M. Wu, C. M. Tseng, Y. C. Lee, Y. R. Wu, Y. T. Hsieh, M. H. Wen, **M. J. Wang***, M. K. Wu, "*Growth and Characterization of Superconducting β -FeSe type Iron Chalcogenide Nanowires*", *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*: 27,025015, 2014-01 [Fulltext](#), (Citation: 11)
28. **Ming-Jye Wang***, Ji-Wun Wang, Chun-Lun Wang, Yen-Yu Chiang, Hsian-Hong Chang, "*Graphene-based Terahertz Photodetector by Noise Thermometry Technique*", *APPLIED PHYSICS LETTERS*: 104, 033502, 2014-0 (Citation: 6)

29. Ta-Kun Chen, Chung-Chieh Chang, Hsian-Hong Chang, Ai-Hua Fang, Chih-Han Wang, Wei-Hsiang Chao, Chuan-Ming Tseng, Yung-Chi Leea, Yu-Ruei Wu, Min-Hsueh Wen, Hsin-Yu Tangd, Fu-Rong Chena, **Ming-Jye Wang**, Maw-Kuen Wu*, and Dirk Van Dycke, "*Fe-vacancy order and superconductivity in tetragonal β -Fe $_{1-x}$ Se*", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA: 111(1), 63-68, 2014-01 (Citation: 68)

2013

30. Chia-Hao Hsu, Chung-Chieh Chang*, Chuan-Ming Tseng, Chih-Chieh Chan, Wei-Hsiang Chao, Yu-Ruei Wu, Min-Hsueh Wen, Yao-Tsung Hsieh, Yi-Chih Wang, Chi-Liang Chen, **Ming-Jye Wang**, Maw-Kuen Wu, "*An ultra-fast response gasochromic device for hydrogen gas detection*", SENSORS AND ACTUATORS B-CHEMICAL: 186, 193–198, 2013-06 (Citation: 28)
31. Edward Tong, Paul Grimes, Raymond Blundell, **Ming-Jye Wang**, and T. Noguchi, "*Wideband SIS Receivers Using Series Distributed SIS Junction Array*", IEEE Transactions on Terahertz Science and Technology: 3(4), 428-432, 2013-07 (Citation: 9)
32. Chun-Feng Lai*, Chung-Chieh Chang, **Ming-Jye Wang**, and Mau-Kuen Wu, "*CCT- and CRI-tuning of white light-emitting diodes using three-dimensional non-close-packed colloidal photonic crystals with photonic stopbands*", OPTICS EXPRESS: 21(S4), A687-A694, 2013-07, [Fulltext](#), (Citation: 17)
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