

師資介紹



楊誌欽 (YANG, CHIH-CHIN)

職稱：教授

最高學歷：國立中山大學電機工程系博士

學術專長：奈米生醫感測元件、呼吸感測元件、半導體元件與量測、共振
穿透元件

分機：23355

參考資料目錄:

- A. Academic International Journal Papers (學術國際期刊論文)
- B. Academic International Conference Papers (學術國際會議論文)
- C. Academic Books (學術書籍)
- D. Patents (專利)

.....

- A. Academic International Journal Papers (學術國際期刊論文)

- A1. Chih Chin Yang* et al., Dielectric Properties of Zinc Oxide Sensing Film with Nitrogen Doped in Capacitance Relative Humidity Sensor, *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 29, No. 2, pp.506-509, April **2022**. (Print ISSN: 1070-9878, Online ISSN: 1558-4135) <https://doi.org/10.1109/TDEI.2022.3163798> (SCI)
- A2. Chih Chin Yang, Influence of Parasitic Effects in Negative Differential Resistance Characteristics of Resonant Tunneling, *Electronics*, Vol. 8(6), pp. 673(13 pages), June 13, **2019**. (eISSN:2079-9292) <https://doi.org/10.3390/electronics8060673> (SCI)
- A3. Chih Chin Yang*, Ting Hao Liu, and Shun Hsyung Chang, The Relative Humidity Sensing Properties of Indium Nitride Compound With Oxygen Doping on Silicon and AAO Substrates, *Modern Physics Letters B*, Vol:33, Nos. 14 & 15 (2019), pp. 1940044 (5 pages), 30 May, **2019**. (ISSN: 0217-9849). <https://doi.org/10.1142/S021798491940044X> (SCI)
- A4. Chih-Chin Yang, Humidity Sensing and Resonant Tunneling Properties of Indium Nitride p-n Device, *Microelectronic Engineering*, Vol.171, No.1, pp. 1-5, March 5, **2017**. (ISSN: 0167-9317, eISSN: 1873-5568) <https://doi.org/10.1016/j.mee.2016.12.025> (SCI)(EI).
- A5. Chih-Chin Yang*, Jenny Chih Yu Lee, Jing Yi Wang, and Mei Zhen Xue, and Chia Yueh Wu, Low Frequency Multiple Divider Using Resonant Model, *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, Vol.10, No.3, pp. 460-463, **2016**. (ISSN: 2070-3724). <https://publications.waset.org/10005346/pdf>
- A6. Chih-Chin Yang, Yan Kuin Su, and Hao Hsiung Lin, Influence of Tunneling Barrier Width on the Forward Current Characteristics of InAs-based Microwave p-n Diode, *Microelectronics Journal*, Vol.46, No.12, pp.1392-1397, December 1, **2015**. (ISSN: 0026-2692) <https://doi.org/10.1016/j.mejo.2015.08.017> (SCI) (EI)

- A7. Chih Chin Yang, and Jing Yi Wang, Humidity Sensor of P-N InN/Si Nano-structure with GHz Resonant Microwave Property, *IEEE Sensors Journal*, Vol.15, No.10, pp.5938-5945, October **2015**. (ISSN: 1530-437X) <https://doi.org/10.1109/JSEN.2015.2449873> (SCI)(EI)
- A8. Chih Chin Yang, Yan Kuin Su, and Ting Chang Chang, Optimum Current-Voltage Characteristics of GaAs/AlAs Intraband Microwave Devices, *Micro & Nano Letters IEE*, Vol.10, Issue.9, pp.472 - 475, September **2015**. (ISSN:17500443) <https://doi.org/10.1049/mnl.2015.0002> (SCI)(EI).
- A9. Chih Chin Yang, and Jiun Ying Shen, Well-defined Sensing Property of ZnO:Al Relative Humidity Sensor with Selected Buffer Layer, *Vacuum*, Vol. 118, pp.118-124, August **2015**. (ISSN:0042-207X) <https://doi.org/10.1016/j.vacuum.2015.03.010> (SCI)(EI).
- A10. Chih Chin Yang, Indium Nitride Humidity Sensing Devices with Microwave Resonant Property, *Micro & Nano Letters*, Vol. 9, Issue 6, pp. 367-369, June **2014**. (ISSN:17500443). <https://doi.org/10.1049/mnl.2013.0679> (SCI)(EI)
- A11. Chia-Ching Wu, Chien-Chen Diao, Chih-Chin Yang, Yi-Chieh Chao, Chin-Guo Kuo, Cheng-Fu Yang, Effects of Thickness on the Properties of Indium-doped Zinc Oxide Films, *Lecture Notes in Electrical Engineering*, Vol. 293(1), pp. 187-193, April **2014**. (ISSN:18761100) https://doi.org/10.1007/978-3-319-04573-3_24 (EI).
- A12. Chung-Wei Yeh, Chung-Hsuang Hung, Kee-Rong Wu, Chih-Chin Yang, Vanadium-Doped WO₃/TiO₂ Microporous Film as Visible-Light Photo Catalyst, *Environmental Engineering Science*, Vol. 31, No.1, pp. 42-48, January **2014**. (ISSN: 1092-8758, Online ISSN: 1557-9018) <https://doi.org/10.1089/ees.2013.0212> (SCI)(EI).
- A13. Chih Chin Yang and Chung Shan Sun, An Exploration on Competency-based Curricula in Integrated Circuit Design, *International Journal of Industrial and Manufacturing Engineering*, Vol.7, No.12, pp 3128-3132, December, **2013**. (p-ISSN 2010-376X, e-ISSN 2010-3778) <https://publications.waset.org/9996826/pdf>
- A14. Chih Chin Yang, Enterprise Infrastructure Related to the Product Value Transferred from Intellectual Capital, *International Journal of Industrial and Manufacturing Engineering*, Vol.7, No.12, pp. 3124-3127, December **2013**. (p-ISSN 2010-376X, e-ISSN 2010-3778) <https://publications.waset.org/9996825/pdf>
- A15. Chih Chin Yang*, Yen Chun Lin, and Hsiao Hsuan Cheng, High Performance Resonant Tunneling Electronic Circuit with Suitable Resistance Parameters, *Scientific Journal of TELKOMNIKA: Telecommunication, Computing, Control and Electronics*, Vol.10, No.6, pp.1333-1340, October **2012**. (ISSN: 1693-6930, e-ISSN: 2302-9293) <https://doi.org/10.11591/telkommnika.v10i6.1416> (EI).
- A16. Chih-Chin Yang*, Explanatory of Relationship between Learning Motivation and Learning Performance, *International Journal of Educational and Pedagogical Sciences*, Vol.6, No.9, pp.2374-2377, Sept. **2012**. (p-ISSN 2010-376X, e-ISSN 2010-3778) <https://publications.waset.org/10416/pdf>
- A17. Ian Y.Y. Bu and, Chih-Chin Yang, High-performance ZnO Nanoflake Moisture Sensor, *Superlattices and Microstructures*, Vol.51, pp.745-753, June **2012**. (ISSN: 0749-6036) <https://doi.org/10.1016/j.spmi.2012.03.009> (SCI)(EI).
- A18. Chih Chin Yang, Frequency Computation of Resonant Signal in Resonant Tunneling Circuit for Communication, *Advances in Mathematical and Computational Methods (Adv Math Comput Meth)*, Vol.1, No.2, pp. 8-14, December **2011**. (ISSN:2160-0643) <https://doi.org/10.5729/>
- A19. Chih Chin Yang*, Yen Chun Lin, and Hsiao Hsuan Cheng, Influence of Paralleled Capacitance Effect in Well-defined Multiple Value Logical Level System with Active Load, *International Journal of Electronics and Communication Engineering*, Vol.5, No.9, pp. 1184-1190, September **2011**. (p-ISSN 2010-376X, e-ISSN 2010-3778) <https://publications.waset.org/12082/pdf> (EI).

- A20. Chia Lin Chan*, Yi Ju Yang, and Chih Chin Yang, Influence of Flood Detention Capability in Flood Prevention for Flood Disaster of Depression Area, *International Journal of Geological and Environmental Engineering*, Vol.5, No.9, pp.509–516, **2011**. (p-ISSN 2010-376X, e-ISSN 2010-3778) <https://publications.waset.org/8877/pdf> (EI).
- A21. Chih Chin Yang*, and Ping Chen Wu, New Structure of Zinc Oxide Biosensor in Relativity Humidity, *International Journal of Next Generation Information Technology*, Vol.2, No.2, pp. 31-37, May **2011**. (SSN:2233-9388(Online), ISSN:2092-8637) (Print) <https://doi.org/10.1109/iccit.2010.5711188> (EI).
- A22. Chih-Chin Yang, Well Transmission Coefficient in Indium Arsenic Resonant Tunneling Microwave Structures, *Materials Science: An Indian Journal*, Vol. 7, Issue.2, January **2011**. (ISSN:0974-7486) <https://www.tsjournals.com/journals/archive/tsms-volume-7-issue-2-year-2011.html>
- A23. Chih Chin Yang, Lan Hui Huang, Bo Shum Chen, Jia Liang Ke, and Chung Lun Tsai, Inductance Characteristic of Annealed Titanium Dioxide on Silicon Substrate, *International Journal of Chemical and Molecular Engineering*, Vol.3, No.8, pp. 380-382, August **2009**. (ISSN: 2070-3724) <https://publications.waset.org/11241/pdf> (EI).
- A24. Chih-Chin Yang and Yan Kuin Su, Well-defined Electrical Properties High-strain Resonant Interband Tunneling Structure, *Microelectronics Journal*, Vol.39, No.1, pp.67-69, January, **2008**. (ISSN: 0026-2692) <https://doi.org/10.1016/j.mejo.2007.10.027> (SCI)(EI).
- A25. Chih-Chin Yang and Yan Kuin Su, "High Performance Aluminum Arsenic Intraband Resonant Microwave Devices", *Microelectronics Journal*, Vol.39, No.1, pp. 90-93, January **2008**. (ISSN: 0026-2692) <https://doi.org/10.1016/j.mejo.2007.09.023> (SCI)(EI).
- A26. Chih-Chin Yang, High Performance Multiple Stepped Quantum Well Resonant Microwave Devices, *Electronics Letters*, Vol.42, No.25, pp. 1485-1487, December **2006**. (ISSN: 0013-5194) <https://doi.org/10.1049/el:20063300> (SCI)(EI).

B. Academic International Conference Papers (學術國際會議論文)

- B1. Chih Chin Yang, Jia En Liou*, Ting Ruei Hsu* , Application of Indium Oxide Flexible Humidity Sensor in Skin Breath Detection, *IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2022* (IEEE ECBIOS), Taiwan, May 27-29, **2022**, URL: <https://www.ecbios.asia>
- B2. Chih Chin Yang, Yu Liang Hsiao*, Zong Hsien Wu, Yu-Hsuan Hsu, Ivan A. Parinov , Shun Hsyung Chang, Respiration Sensing Devices Based on Indium Nitride p-n Heterostructure on Silicon Porous Substrate, *2021 International Conference on "Physics and Mechanics of New Materials and their Applications"(PHENMA 2021)*, Kitakyushu, Japan, Japan, , pp.81-83, March 26-29, **2021**.
- B3. Chih Chin Yang, Zong Hsien Wu*, Yu Liang Hsiao, Yi Tseng Li, Shun Hsyung Chang, Ivan A. Parinov, Capacitance Type p-InN/n-Si Heterostructure Sensing Devices on Silicon Unpolished Substrate, *2021 International Conference on "Physics and Mechanics of New Materials and their Applications"(PHENMA 2021)*, Kitakyushu, Japan, Japan, pp.83-85, March 26-29, **2021**. (<http://phenma2021.math.sfedu.ru/>)(Oral presentation)
- B4. Chih Chin Yang* and Hung Yeh Lin, Volt-ampere Type Relative Humidity Sensing Devices using Indium-Based Sensing Film on a Porous Silicon Substrate, *2021 International Conference on "Physics and Mechanics of New Materials and their Applications"(PHENMA 2021)*, Kitakyushu, Japan, Japan, pp.80-81, March 26-29, **2021**. (<http://phenma2021.math.sfedu.ru/>)

- B5. Chih Chin Yang, Relative Humidity Sensing Properties of AZO Sensing Film with Nitrogen Doping Fabricated on the p-n Heterojunction Device, *International Conference on Physics*, pp.38, slated on 7th -8th June 2019 at Sha Tin, Sha Tin Hong Kong, **2019**. ISBN: 9788-1929-58040.
- B6. Chih-ChinYang* , Chih Cheng Wu, Shun-Hsyung Chang, P-Type Nitrogen Doped Zinc Oxide Sensor with Polymer Buffer Layer for Enhancement of RH Sensing Performance, *2019 International Conference on "Physics and Mechanics of New Materials and their Applications"*(PHENMA 2019), Hanoi, Vietnam, pp.86-87, November 7-10, **2019**. (<http://phenma2019.math.sfedu.ru/>) ISBN: 978-604-913-906-2
- B7. Chih Chin Yang, Influence of Parasitic Effects in Negative Differential Resistance Characteristics of Resonant, *IEEE International Symposium on Computer, Consumer and Control*, 2018, IS3C2018, Taichung, Taiwan, pp.88-91, December 6-8, **2018**. (oral presentation)
- B8. Chia Ching Wu*, Chih Chin Yang, Jun Zhi Wang, Chia Hon Chen, The Characteristics of the Gallium-doped Zinc Oxide Films Using Radio Frequency Magnetron Sputtering, *The 7th IEEE International Symposium on Next-Generation Electronics* (ISNE 2018) will be held at National Taipei University of Technology, Taiwan on May 7th to 9th, **2018**. <http://isne2018.ntut.edu.tw/index.php>, ISBN: 978-1-5386-1445-7
- B9. Ting-Hao Liu, Chih-ChinYang*, Shun-Hsyung Chang, and Yan-Ren Li Jhang, Impedance Properties of Nitrogen Oxide Compound in Detection of Relative Humidity, *2018 International Conference on Physics and Mechanics of New Materials and their Applications*(PHENMA 2018) Busan, Republic of Korea, August 9-11, **2018**, pp.357-358. (<https://phenma2018.wordpress.com/>) ISBN-978-89-5562-598-1
- B10. Cheng Ting Chou, Chih Chin Yang*, Shun Hsyung Chang, Jia Wei Zhang and, Cheng Yun Tu, An Impedance Type Relative Humidity Sensing Device with Two-terminal Schottky Characteristic, *2017 International Conference on Physics and Mechanics of New Materials and Their Applications* (PHENMA 2017), Jabalpur, India, October 14-16, **2017**, pp.40-41. (<http://phenma2017.iiitdmj.ac.in/index.html>) ISBN 978-93-5281-337-7.
- B11. Chih-Chin Yang, Cheng-Ting Chou, Jenny Chih-Yu Lee, Tzung-Ta Kao, Shun-Hsyung Chang, Fabrication of Indium Nitride Relative Humidity Sensors Using Porous Aluminum Substrate, *2016 International Conference on Physics and Mechanics of New Materials and their Applications*(PHENMA 2016) Surabaya, Indonesia, July 19-22, **2016**, pp.207.(<http://phenma2016.math.sfedu.ru>) ISBN-9-786029-077407
- B12. Chih Chin Yang, Sensing Properties of p-n InN/InNO/In/SiO₂/Si Humidity Sensing Device in Microwave Frequency of GHz, *International Multi-Conference on Engineering and Technology Innovation* (IMETI), , pp. 203, Oct. 30 - Nov. 03, **2015** in Kaohsiung. (<http://imeti.org/>)
- B13. Chih Chin Yang*, The Study of Relationship between Content of Intellectual Capital and Product Value of Enterprise, *2014 International Symposium on Business and Management* (ISBM 2014), pp. 694-701, ISBN:2226-6577, Nagoya University, Nagoya, Japan, April. 2-4, **2014**.
- B14. Chih Chin Yang, An InAs-Based p-n Microwave Device with High Current Density and Output Power, *The 3rd International Symposium on Next-Generation Electronics* (IEEE ISNE 2014), pp.104, Chang Gung University in Taoyuan, Taiwan, May 7th to 10th, **2014**.
- B15. Chih Chin Yang and Jiun Ying Shen, Well-defined Sensing Properties of ZnO:Al Relative Humidity Sensor with Selected Buffer Layer, *The 3rd International Symposium on Next-Generation Electronics* (IEEE ISNE 2014), pp. 77, Chang Gung University in Taoyuan, Taiwan, May 7th to 10th, **2014**.

- B16. Po Hao Huang¹, Chih Chin Yang*¹, Fu Min Wang¹, Cong Min Hu¹, and Chia Ching Wu², New Type Moisture Sensing Device in Titanium Dioxide Doped Nitrogen with Buffer Layer, *The Proceeding of 2013 International Conference on Advanced Materials, Energy and Environments(ICMEE'13)*, pp.95-99, KGU Kannai Media Center, Kanto Gakuin University, Yokohama, Japan, Aug. 8-9, **2013**. ISSN: 1939-7348 Online.
- B17. Kai Yang Huang, Jiun Ying Shen, Chih Chin Yang*, Yi Lung Lin, and Ian Y.Y. Bu, Moisture Sensor of ZnO Doped Aluminum with Multiple Function Measurements in Impedance, *The Proceeding of 2013 International Conference on Advanced Materials, Energy and Environments(ICMEE'13)*, pp.91-94, KGU Kannai Media Center, Kanto Gakuin University, Yokohama, Japan, Aug. 8-9, **2013**. ISSN: 1939-7348 Online (Colored).
- B18. Guan Hua Lu, Chih Chin Yang*, Wei Jun Jiang, Chih Cheng Wu, and Shung Hyung Chang, Application of Titanium Dioxide Doped Nitrogen in Moisture Sensing Device with High Sensitivity, *The Proceeding of 2013 International Conference on Advanced Materials, Energy and Environments(ICMEE'13)*, (ICMEE'13), pp.100-103, KGU Kannai Media Center, Kanto Gakuin University, Yokohama, Japan, Aug. 8-9, **2013**. ISSN: 1939-7348 Online (Colored).
- B19. Chih Chin Yang, Relational Analysis between Production Value and Contents in Enterprise, *2013 International Conference of Digital Content (ICDC 2014)*, National Central University, pp. 430-432, Yilan, Taiwan, December 19-20, **2013**. ISBN:9789869041300
- B20. Chih Chin Yang and Chung Shan Sun, An Exploration on Competency-based Curricula in Integrated Circuit Design, *ICIMT 2013: International Conference on Innovation, Management and Technology*, pp. 1795-1799, December 26 - 27, **2013** Phuket, 83150 Thailand. (p-ISSN 2010-376X, e-ISSN 2010-3778)
- B21. Chih Chin Yang, Enterprise Infrastructure Related to the Product Value Transferred from Intellectual Capital, *ICIMT 2013: International Conference on Innovation, Management and Technology*, pp. 1791-1794, December 26 - 27, **2013** Phuket, 83150 Thailand. (p-ISSN 2010-376X, e-ISSN 2010-3778)
- B22. Chia-Ching Wu, Chien-Chen Diao, Chih-Chin Yang, Yi-Chieh Chao, Chin-Guo Kuo, Cheng-Fu Yang, Effects of thickness on the properties of indium-doped zinc oxide films, *2nd International Conference on intelligent Technologies and Engineering Systems*, 12-14 December **2013**, Kaohsiung, Taiwan E-ISSN:9783319045733, ISSN:9783319045726, Springer Verlag, Doi.10.1007/978-3-319-04573-3
- B23. Chih Chin Yang, Chong Yan Chen, Chih Yu Lee, Ming Lung Hsieh, Shau Jie Shia, and Shun Hsyung Chang, Influence of Parasitic Effect between Frequency and Quantum Impedance for Quantum Resonant Devices, *2012 International conference Russian-Taiwanese Symposium, Physics and Mechanics of New Materials and Their Applications*, Rostov-on-Don, Russia, p.20, June 4 – 6, **2012**.
- B24. Shun-Hsyung Chang, Chih-Chin Yang* Ian Y. Y. Bu, Fabrication of Highly Sensitive ZnO Based Humidity Sensor Through Low Cost Method,” *2012 International conference Russian-Taiwanese Symposium on Physics and Mechanics of New Materials and Their Applications*, Rostov-on-Don, Russia, pp.55-56, June 4 – 6, **2012**.
- B25. Chih Chin Yang*, Chih Yu Lee, Jing Yi Wang, Mei Zhen Xue, and Chia Yueh Wu, Well Defined Frequency Multiple Divider Using Resonant Model, *The Proceeding of International Conference on Electrical, Computer, Electronics and Communication Engineering (ICECECE 2012)*, pp. 483–441, Issue 69, September 12-14, 2012, Singapore, **2012**(EI). (Oral Presentation) (p-ISSN 2010-376X, e-ISSN 2010-3778)

- B26. Chih-Chin Yang*, Explanatory of Relationship between Learning Motivation and Learning Performance, The Proceeding of *International Conference on Performance Improvement (ICPI 2012)* vol.69, pp.484-487, Sept. **2012**,(EI)(p-ISSN 2010-376X, e-ISSN 2010-3778)
- B27. Chih Chin Yang*, Yen Chun Lin, and Hsiao Hsuan Cheng, High Performance Resonant Tunneling Electronic Circuit (RTEC) with Suitable Resistance Parameters, *The International Conference on Electronic Information and Mechanical Engineering (ICEIME2012)*, Dec.21-23, **2012**. Zhangjiajie, China.
- B28. Chih Chin Yang*, Configuration of School Social Structure in Education and School Management,” Proceeding of *The 2011 International Conference on Innovation and Management (IAM2011)*, p.194, *Kuala Lumpur, Malaysia*, July 12-15, **2011**. (ISSN:2218-6387 ISBN:978-986-84899-2-9)
- B29. Chih Chin Yang*, Yen Chun Lin, and Hsiao Hsuan Cheng,” Influence of Paralleled Capacitance Effect in Well-defined Multiple Value Logical Level System with Active Load,” The Proceeding of *International Conference on Electrical, Computer, Electronics and Communication Engineering (ICECECE 2011)*, pp.115–121, Issue 81, September 28-30, 2011, Singapore, **2011**(EI). (Oral Presentation) (p-ISSN 2010-376X, e-ISSN 2010-3778)
- B30. Chih Chin Yang*, Application of Oxidation Semiconductor Devices in Biological and Medical Sensor, *International 2011 Regional Cooperation and Development in East Asia*, pp.74-77(Full paper), November 4, 2011, Kaohsiung, Taiwan, **2011**. (Oral Presentation)
- B31. Chih Chin Yang*, Yi Ju Yang, Chia Lin Chan, Dynamic Analysis of Internet Mobile Phone in Ubiquitous Wireless Environment, *The 6th Edition of the International Conference on Ubiquitous Information Technologies & Applications (CUTE 2011)*, pp. 115-119, Coex in Seoul, Korea, December 15-17, **2011**. (Oral Presentation), ISBN: ISSN:1976-0035 .
- B32. Chih Chin Yang*, The Construction of Enterprise Content in Intellectual Capital, Proceeding of *The 2010 International Conference on Innovation and Management (IAM2010)*, *Penang, Malaysia*, July 7- 10, **2010**. (ISSN 2218-6387)(ISBN 978-986-84899-2-9)
- B33. Yuang Tung Cheng, Jyh Jier Ho, Chih Chin Yang*, Tang Yu Wei, Duo Shang Chen, and Shun Hsyung Chang, The Study of Resonant Tunneling Effect on Si-based RTD with Double Barrier Structure, *Proceeding of 2010 International Conference on Optics and Photonics (OPT'10)*, Tainan, Taiwan, December 3-4, **2010**.
- B34. Chih Chin Yang*, and Ping Chen Wu, New Measurement Information System of Biosensor in Relativity Humidity, *Proceeding of 5th ICCIT: 2010 International Conference on Computer Sciences and Convergence Information Technology*, Seoul, Korea, November 29-December 2, Seoul, Republic of Korea, **2010**. (IEEE)(EI). (ISBN: 978-89-88678-30-5) (ISBN: 978-89-88678-29-9)
- B35. Chih Chin Yang, Frequency Computation of Resonant Signal in Resonant Tunneling Circuit for Communication, *2010 Second International Joint Journal Conference on Computer and Communication Technology (IJJCCT 2010)*, Jeju Island, Korea 27-28 December **2010**, (EI) (ISSN:2160-0643) (Oral Presentation)
- B36. Tsung Wei Chen, Ji Xiang Yeh, Chih Chin Yang*, Shiau Wei Chen, Pao Hua Chu, Ya Chi Wen, and Shun Hsyung Chang, The Study of Phase Shift Key Modulation in Radio Frequency Identification System, The Proceeding of *the International Conference of the RFID Technology for Application and Industry*, p.46, January, 8-9, Taipei, **2009**.
- B37. Chih Chin Yang, Shu Wei Chang, Xiang Chen You, Shang Ting Lee, and Ping Chen Wu, The Physical Property of Zinc Oxide Nanometer Humidity Sensing Thin Film, The Proceeding of *the Second International Conference and Workshops on Basic and*

- Applied Sciences (ICOWOBAS2009) and Regional Annual Fundamental Science Seminar 2009(ICORAFSS2009)*, p.30, 2-4 June, 2009, Johor Bahru, Malaysia, **2009**. (ISBN: 978-983-9805-74-1) (Oral Presentation)
- B38. Chih Chin Yang, Lan Hui Huang, Bo Shum Chen, Jia Liang Ke, and Chung Lun Tsai, Inductance Characteristic of Annealed Titanium Dioxide on Silicon Substrate, *The Proceeding of International Conference on Biotechnology and Nanotechnology* (ICBN 2009), pp.93-95, Issue 56, August 26-28, 2009, Singapore, **2009**,(EI) (Oral Presentation) (ISSN: 2070-3724)
- B39. Chih Chin Yang*, Jhen Wei Deng, Jhen Yu Wang, and Hsin Hsun Hsu, Influence of Nitrogen Compensation in Annealing Characteristics of Indium Nitride Compound, *TACT 2009 International Thin Films Conference*, December 14-16, 2009, Taipei, Taiwan, **2009**. (EI)
- B40. Chih Chin Yang, and Chun Yu Chen, The study of m-learning environment in clean Room by combining RFID and PDA systems, *2008 International Conference on Technology, Education, and Management in e-Society*, January 19-20, Kaohsiung, p.124-130, **2008**. (Oral Presentation)
- B41. Chih Chin Yang, The Establish of Framework of Technology Education in Taiwan by Using Literature Research Method, *19th Forum on Curriculum and Instruction— The Proceeding of International Conference of e-Generation on Instruction specialized field and Research*, p.191, November 14–15, 2008, Taichung, **2008**.
- B42. Tang-Yu Wei, Chih-Chin Yang, Jyh-Jier Ho, Shun-Hsyung Chang, The Study of Negative Differential Resistance Effect on Si-based RTID with Double Wells, *The Proceeding of 2008 International Conference on Optics and Photonics in Taiwan*, p.48, December, 5-6, Taipei, **2008**. (Oral Presentation)
- B43. Chih Chin Yang, Hung Yu Yang, Je Wei Lee, and Shu Wei Chang, The Properties of Hexagonal ZnO Sensing Thin Film Grown by DC Sputtering on (100) Silicon Substrate, *The Proceeding of 13th International Conference on BioMedical Engineering 2008*(IFMBE conference 2008), p.117, December 3–6, 2008, Singapore, **2008**. (ISSN 1680-0737)(ISBN 978-3-540-92840-9) (Oral Presentation)(IEEE)(EI index)

C. Book papers(專書論文)

- C1. Chih Chin Yang, *Semiconductor Measurement Theory and Practices*, Ting Lung Book Co., March 22, Ting Lung Book Co., ISBN: 978-986-8937-55-3, June 22, **2013**.
- C2. Chih Chin Yang, Chong Yan Chen, Jenny Chih Yu Lee, Ming Lung Hsieh, Shau Jie Shia, Shun Hsyung Chang, Ian Yi-Yu Bu and Ivan A. Parinov, *Physics and Mechanics of New Materials and their Applications*, Chapter 11. Influence of Parasitic Effect between Frequency and Quantum Impedance for Quantum Resonant Materials and Structures, Department of Microelectronics Engineering, National Kaohsiung Marine University, Kaohsiung City, Taiwan, Republic of China. \$175.00, Series:Physics Research and Technology Materials Science and Technologies, Binding: Hardcover, Pub. Date: 2013 - 3rd Quarter, Pages: 7x10 - (NBC-C), ISBN: 978-1-62618-535-7) **2013**.
- C3. Chih Chin Yang, Shun Hsyung Chang, Yi Yu Bu, Ivan A. Parinov, Ch6:“Pseudomorphic Compound Material in Microwave Devices and Development of MEMS Applications Based on Piezoelectric Technologies”, In: *Piezoelectric Materials and Devices*, ISBN: 978-1-61728-307-9, Editor: Ivan A. Parinov (Southern Federal University, Russia), pp., © 2011 Nova Science Publishers, Inc, **2011**.

- C4. Chih Chin Yang, Hung Yu Yang, Je Wei Lee, and Shu Wei Chang, "The Properties of Hexagonal ZnO Sensing Thin Film Grown by DC Sputtering on (100) Silicon Substrate", *IFMBE Proceedings volume 23* (13th International Conference on Biomedical Engineering: ICBME 2008, 3-6 December 2008, Singapore), Editor: Chwee Teck Lim and James Goh Cho Hong Paperback: 2303pages, Publisher: Springer;edition, Language: English, ISBN-10: 3540928405, ISBN-13: 978-3540928409. February 11, **2009**.

D. Patents (專利)

- D1. Chih Chin Yang, Yu Liang Hsiao, Zong Hsien Wu, Respiration sensor, respirometer, and respiratory care system, Invention Patent I716272, 2021.01.11-2040.02.02, Jan. 11, **2021**.
- D2. Chih Chin Yang, Nano photocatalyst screen, R.O.C., Utility Model Patent M574076, 2019.02.11-2028.10.30, August 1, **2019**.
- D3. Chih Chin Yang, Humidity Sensing Structure with Indium Nitride Sensing Layer, R.O.C., Invention Patent I615609 (2018.02.21-2036.07.11) Jan. 21, **2018**
- D4. Chih Chin Yang, Humidity Sensing Structure with Indium Nitride Sensing Layer, 105210443, No.:104NP001642, R.O.C., Utility Model Patent M533211, 2016.12.1-2026.7.11. (105) 10572778500, December 01, **2016**.
- D5. Chih Chin Yang and Guan Hua Lu (TW), Multifunctional Metal Oxide Semiconductor Field Effect Capacitance Type Humidity Sensor, 1042010742-0 (104203058), No.:104NP001641, R.O.C., Utility Model Patent M506287, 2015.08.01-2025.03.01, August 1, **2015**.
- D6. Chih Chin Yang; Kai Yang Huang(TW); Po Hao Huang (TW), Hydroxide Ion Sensor of Multigates Metal Oxide Semiconductor Field Effect Structure, 1042010752-0 (104203061), No.:104NP001642, R.O.C., Utility Model Patent M502843, 2015.06.11-2025.03.01, June 01, **2015**.
- D7. Chih Chin Yang, and Sheng Ping Hsu, Depletion MOS Field Effect Channel Humidity Sensor, R.O.C., New Type Patten, M416082, 100.11.11. (100)No. 10071971460, November 11, **2011**.
- D8. Chih Chin Yang, and Chia Lung Liu, Enhancement MOS Field Effect Channel Humidity Sensor, R.O.C., New Type Patten, M417544, 100.12.01. (100)No. 10072089740, December 01, **2011**.
- D9. Chih Chin Yang, and Jian Yi Gu, Ionic Sense Field Effect Transistor Humidity Sensor, R.O.C., New Type Patten, No.099208664, 990901. (99) No. 09971512410, September 01, **2010**.
- D10. Chih Chin Yang, and Ping Chen Wu, Impedance Type Humidity Sensor, New Type Patten, 98224740, R.O.C., 981230, (99)04237, No.09940521530, March 25, **2010**.
- D11. Chih Chin Yang, Chung Lun Tsai, Jenny Chih Yu Lee, Impedance Type Humidity Sensor (1), New Type Patten, 98224739, R.O.C., 981230, (99)04237, No.09940503240, March 23, **2010**.