1. 國際期刊論文  
   **Referred International Journal Papers: (published or accepted)**

1. **R. B. Chen**, F. L. Shyu, and Yan-Ten Lu\*, “Effects of Valence-Band Mixing on the Franz- Keldysh Spectra in Quantum Well”, **J. Phys. Soc. Jpn. 69**, 948-954 (2000). **(SCI)**

2. **R. B. Chen** and Yen-Ten Lu\*, “Theoretical Study of Modulated Absorption Spectra: From Quantum Wire to Quantum Dot”, **Phys. Letters A 264**, 417-423 (2000). **(SCI)**

3. **R. B. Chen**\* and Yen-Ten Lu, “Critical Thickness of Quantum Well for Observing Franz- Keldysh Oscillation”, **Solid State Commun. 114**, 117-120 (2000). **(SCI)**

4. F. L. Shyu, Ming Fa Lin\*, C. P. Chang, **R. B. Chen**, J. S. Shyu, Y. C. Wang and C. H. Liao, “Tight-Binding Band Structures of Nanographite Multiribbons”, **J. Phys. Soc. Jpn. 70**, 3348-3355 (2001). **(SCI)**

5. C. P. Chang, C. W. Chiu, M. F. Lin\*, F. L. Shyu, **R. B. Chen**, “Magnetoband structures of AB-stacked zigzag nanographite ribbons”, **Phys. Letters A 306**, 137-143 (2002). **(SCI)**

6. **R. B. Chen**, C. P. Chang, F. L. Shyu, M. F. Lin\*, “Optical excitations of boron nitride ribbons and nanotubes”, **Solid State Commun. 123**, 365-369 (2002). **(SCI)**

7. **R. B. Chen**, F. L. Shyu, C. P. Chang, and M. F. Lin\*, “Optical Properties of Boron Nitride Nanotubes”, **J. Phys. Soc. Jpn. 71**, 2286-2289 (2002). **(SCI)**

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11.C. W. Chiu, F. L. Shyu,C. P. Chang, **R. B. Chen**, M. F. Lin\*, “Novel magnetoplasmons in armchair carbon nanotubes”, **Phys. Letters A** **311**, 53-59 (2003). **(SCI)**

12. C. P. Chang, Y. C. Chen, F. L. Shyu, **R. B. Chen,** M. F. Lin\*, “Uniaxial-stress effects on electronic structures of nanographite ribbons”, **Physica E** **18**, 509-522 (2003). **(SCI)**

13. C. W. Chiu, C. P. Chang, F. L. Shyu, **R. B. Chen**, and M. F. Lin\*, “Magneto electronic excitations in single-walled carbon nanotubes”, **Phys. Rev. B** **67**, 165421-165427 (2003). **(SCI)**

14. C. W. Chiu, C. P. Chang, F. L. Shyu, **R. B. Chen**, and M. F. Lin\*, “Magneto collective excitations of armchair carbon nanotubes”, **Physica E** **22**, 700-703 (2004). **(SCI)**

15. **R. B. Chen**, C. P. Chang, F. L. Shyu, J. S. Hwang, and M. F. Lin\*, “Optical excitations of finite carbon nanotubes”, **Carbon 42**, 531-535 (2004). **(SCI)**

16. C. C. Tsai, F. L. Shyu, C. W. Chiu, C. P. Chang, **R. B. Chen,** andM. F. Lin\*, “Magnetization of armchair carbon tori”, **Phys. Rev. B 70**, 75411(1)-75411(6) (2004). **(SCI)**

17. C. P. Chang\*, C. L. Lu, F. L. Shyu, **R. B. Chen,** Y. K. Fang, M. F. Lin,“Magnetoelectronic properties of graphite sheet”, **Carbon 42,** 2975-2980 (2004). **(SCI)**

18. F. L. Shyu, C. C. Tsai, C. P. Chang, **R. B. Chen,** andM. F. Lin\*,“Magnetoelectronic states of carbon toroids”, **Carbon 42,** 2879-2885 (2004). **(SCI)**

19. **R. B. Chen**, B. J. Lu, C. C. Tsai, C. P. Chang, F. L. Shyu, and M. F. Lin\*, “Persistent currents in finite zigzag carbon nanotubes”, **Carbon 42**, 2873-2878 (2004). **(SCI)**

20. Y. H. Ho**,** C. P. Chang, F. L. Shyu, **R. B. Chen,** S. C. Chen, M. F. Lin\*, “Electronic and optical properties of double-walled armchair carbon nanotubes”, **Carbon 42**, 3159-3167 (2004). **(SCI)**

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23. J. H. Ho, C. P. Chang, **R. B. Chen**, and M. F. Lin\*, “Electron decay rates in a zero-gap graphite layer”, **Phys. Lett. A** **357**,401-406 (Sep. 2006). **(SCI),** IF 1.632

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25. C. H. Lee, **R. B. Chen**, T. S. Li, C. P. Chang, and M. F. Lin\*, “Electronic structures of finite carbon nanotubes under external fields”, **J. Phys.**: **Condens. Matter 18**, 9427-9434 (Oct. 2006). **(SCI),** IF 2.546

26. **R. B. Chen**\*, C. H. Lee, C. P. Chang, and M.F. Lin, “Electronic and optical properties of finite carbon nanotubes in an electric field”, **Nanotechnology 18**, 75704(7) (Feb. 2007). **(SCI),** IF 3.979

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30. **R. B. Chen**\*, “Excitation loss spectra of finite carbon nanotubes”, **Physica** **E 40,** 1407-1409 ( Mar. 2008). (**SCI**), IF 1.532

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2. C. P. Chang**\***, J. Wang, C. L. Lu, Y. C. Huang, M. F. Lin, and **R. B. Chen**, "Optical properties of simple hexagonal and rhombohedral few-layer graphenes in an electric field", **J. Appl. Phys. 103**, 103109(8) (May 2008). **(SCI),** IF 2.160
3. C. H. Lee, W. S. Su, **R. B. Chen**, and M. F. Lin\*, "Low-energy electronic properties of finite double-walled carbon nanotubes under external fields", **Physica E** **41**, 1226-1231 (Jun. 2009). **(SCI)**, IF 1.532
4. M. F. Chen, Y.C. Huang, **R.B. Chen**, and C.P. Chang\*, “Spatially modulated magnetic fields induced modification of magnetic bands of monolayer zigzag graphene ribbons ”, **Physica E** **42** **,** 707-710 (Feb. 2010). (**SCI**), IF 1.532
5. **R. B. Chen**\*, “Optical excitations of finite double-walled carbon nanotubes under electric field”, **Physica E** **42**, 787-790 (Feb. 2010). (**SCI**), IF 1.532
6. **Rong-Bin Chen**\* and Chi-Hsuan Lee, " Optical absorption spectra in finite double-walled carbon nanotubes ", **J. Nanosci. Nanotechnol.** **10,** 643-649(Jan. 2010). **(SCI),** IF 1.563
7. Y. H. Liu, J. Y. Wu, **R. B. Chen**, and M. F. Lin\*, “The modulation effects on Landau levels in graphene nanoribbon”, **Physica E 42,** 2804-2807 (Sep. 2010). (**SCI**), IF 1.532
8. Y. H. Ho, J. Y. Wu**, R. B. Chen,** Y, H. Chiu\***,** andM. F. Lin\***, “**Optical transitions between Landau levels: AA-stacked bilayer grapheme**”, Appl. Phys. Lett. 97,** 101905(3) (Sep. 2010). **(SCI),** IF 3.844
9. **R. B. Chen**, C. P. Chang\*, M. F. Lin, “Electric-field-tunable electronic properties of graphene quantum dots”, **Physica E** **42**, 2812-2815 (Sep. 2010). (**SCI**), IF 1.532
10. Ching-Hong Ho, Sing-Jyun Tsai, **Rong-Bin Chen**, Yu-Huang Chiu\*, and Ming-Fa Lin\*, " Low-energy Landau level spectrum in ABC-stacked trilayer graphene ", **J. Nanosci. Nanotechnol.** , **J. Nanosci. Nanotechnol. 11**, 4938-4947 (Jun. 2011). **(SCI),** IF 1.563
11. C. H. Lee, S. C. Chen, W. S. Su, **R. B. Chen**\*, and ,M. F. Lin\*, “ Tuning the electronic properties of monolayer graphene by the periodic aligned graphene nanoribbons”, **Synth. Met. 161,** 489-495(Mar. 2011). **(SCI),** IF 1.829
12. Y. C. Ou, J. K. Sheu, Y. H. Chiu**\***, **R. B. Chen**\*, and M. F. Lin**\***, “Influence of modulated fields on the Landau level properties of graphene”, **Phys. Rev. B 83,** 195405(9) (May 2011). **(SCI),** IF 3.691
13. C. H. Lee, S. C. Chen, **R. B. Chen**, M. F. Lin**\***, “Low-energy band structures of armchair ribbon-graphene hybrid systems”, **Diam. Relat. Mat.** **20,** 1026-1029 (Jul. 2011). **(SCI),** IF 1.913
14. **Rong-Bin Chen**\* and Yu-Huang Chiu**\***, “Landau subband and Landau level properties of AA-stacked graphene superlattice”, **J. Nanosci. Nanotechnol.** **12,** 2557-2566 **(**Mar. 2012). (**SCI),** IF 1.563
15. **Rong-Bin Chen**\*, Yu-Huang Chiu, Ming-Fa Lin, “A theoretical evaluation of the magneto-optical properties of AA-stacked graphite ”, **Carbon** **54**, 268-276 (Apr. 2013). (**SCI),** IF 5.370
16. **Rong-Bin Chen**, Yu-Huang Chiu\*, Ming-Fa Lin\*, “Beating oscillations of magneto-optical spectra in simple hexagonal graphite ”, **Comput. Phys. Commun.** **189**, 60-65 (Apr. 2015). (**SCI),** IF 3.112
17. **Rong-Bin Chen**\*, Chih-Wei Chiu\*, Ming-Fa Lin, “Magnetoplasmons in simple hexagonal graphite”, **RSC Adv. 5**, 53736-53740 (Jul. 2015). (**SCI),** IF 3.840
18. Chih-Wei Chiu\* and **Rong-Bin Chen\***, “Influence of electric fields on absorption spectra of AAB-stacked trilayer graphene”, App. Phys. Express 9, 065103 (May 2016). **(SCI),** IF 2.265

二、國內期刊論文   
**Referred National Journal Papers**

三、研討會論文  
 **Conference Papers**

1. **R. B. Chen** and Yen-Ten Lu, “The Effects of Valence-Band Mixing on the FKO Spectra”, **Annual Meeting of the Physical Society of the ROC** (1999)**.**

1. **R. B. Chen** and Yen-Ten Lu, “Effects of Valence-Band Mixing on the Franz-Keldysh Spectra in Quantum Well”, **Annual Meeting of the Physical Society of the ROC** (2000)**.**
2. F. L. Shyu, M. F. Lin, **R. B. Chen,** and H. L. Chiueh, “π-electronic excitations in multiwalled carbon nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2001)**.**
3. J. S. Hwang, C. C. Chang, W. C. Hwang, G. S. Chang, **R. B. Chen** and Y. T. Lu, H. H. Lin, M. C. Chen, “Study of Self-organized InAs/GaAs quantum dots by photoluminescence and photoreflectance”, **Mat. Res. Symp. Proc. 642, J3.5.1** (2001).

4. B. C. Lu, M. F. Lin, C. W. Chiu, F. L. Shyu, and, **R. B. Chen**, “Persistent Currents in Finite-Length Carbon Nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2001)**.**

5. F. L. Shyu, M. F. Lin, and, **R. B. Chen,** “Electronic Properties of AA-Stacked Nanographite Ribbons”, **Annual Meeting of the Physical Society of the ROC** (2001)**.**

1. **R. B. Chen,** M. F. Lin, and, F. L. Shyu, “Optical Excitations of Finite-Length Carbon Nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2001)**.**
2. C. P. Chang, Y. H. Chen, F. L. Shyu, **R. B. Chen** and M. F. Lin, “Electronic Structures of Nanographite Ribbons in the Magnetic Field”, **Annual Meeting of the Physical Society of the ROC** (2002).
3. M. F. Lin, M. Y. Chen, F. L. Shyu, **R. B. Chen**, and C. P. Chang, “Electronic colletive excitations in AB-stacked nanographite ribbons”, **Annual Meeting of the Physical Society of the ROC** (2002)**.**
4. C. W. Chiu, M. F. Lin, F. L. Shyu, **R. B. Chen**, and C. P. Chang, “Optical spectra of AB- and AA- stacked nanographite ribbons”, **Annual Meeting of the Physical Society of the ROC** (2002)**.**
5. **R. B. Chen,** F. L. Shyu , M. F. Lin, and, and C. P. Chang, “Optical Properties of Boron Nitride Nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2002)**.**
6. F. L. Shyu, M. F. Lin, C. W. Chiu, C. P. Chang, **R. B. Chen,** and Y. C. Wang, “Magneto energy gap of a single-walled carbon nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2003)**.**

12. C. W. Chiu, F. L. Shyu, C. P. Chang, **R. B. Chen,** and M. F. Lin, “Magnetoplasmons of carbon nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2003).

13. F. L. Shyu, C. P. Chang, **R. B. Chen,** C. W. Chiu, and M. F. Lin, “Magnetoelectronic and optical properties of carbon nanotubes”, **March Meeting of America Physical Society of the ROC** (2003).

14. C. P. Chang, C. W. Chiu, **R. B. Chen,** F. L. Shyu, and M. F. Lin, “Magneto-band of the stacked nanographite ribbons”, **March Meeting of America Physical Society** (2003)**.**

15. C. W. Chiu, F. L. Shyu, C. P. Chang, **R. B. Chen,** and M. F. Lin, “Magneto electronic excitations in single-walled carbon nanotubes”, **Bulletin of American Physical Society , vol. 48, 217** (2003).

16. Y. H. Ho**,** C. P. Chang, F. L. Shyu, **R. B. Chen,** S. C. Chen, M. F. Lin, “Magnetoelectronic structures of double-walled armchair carbon nanotubes”, **Annual Meeting of the Physical Society of the ROC (**2004)

17. C. W. Chiu, F. L. Shyu, C. P. Chang, **R. B. Chen,** and M. F. Lin, “Electron lifetime in armchair carbon nanotube”, **Bulletin of American Physical Society, Vol. 49, 246 (**2004)**.**

18. C. C. Tsai, F. L. Shyu, M. F. Lin, C. P. Chang, **R. B. Chen** and C. W. Chiu (APS March94 Meeting) “Magnetic moment of armchair carbon tori”, **Bulletin of American Physical Society**, Vol. **49**, 246(2004).

19. C. W. Chiu, F. L. Shyu, C. P. Chang, **R. B. Chen**, D. S. Chuu and M. F. Lin, “Electron lifetime in armchair carbon nanotubes”, **Annual Meeting of the Physical Society of the ROC** (2004).

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21. C. W. Chiu, F. L. Shyu, C. P. Chang, **R. B. Chen**, and M. F. Lin, “Electron-electron inelastic scatterings in carbon nanotubes”, **The 1st International Conference on One-Dimensional Nanomaterials** (2005).

22. C. W. Chiu, J. H. Ho, C. P. Chang, **R. B. Chen**, F. L. Shyu, and M. F. Lin (APS March05 Meeting) “Electronic Deexcitations in Semiconducting Carbon Nanotubes”, **Bulletin of American Physical Society**, Vol. **50**, 1011 (2005).

23. **R. B. Chen**, C. P. Chang, J. S. Hwang, F. L. Shyu, and M. F. Lin (APS March05 Meeting) “Magnetization of Finite Carbon Nanotubes”, **Bulletin of American Physical Society**, Vol. **50**, 1011 (2005).

24. **R. B. Chen**, C. H. Lee, C. P. Chang, C. S. Lue, and M. F. Lin, “Electronic and optical properties of finite carbon nanotubes in a static electric field”, **The 16th International Conference on the Electronic Properties of Two-Dimensional Systems** **,** P-C-57 (2005).

25. C. H. Lee, **R. B. Chen**, and M. F. Lin, “Electronic structures of finite-length carbon nanotube under external fields”, **Annual Meeting of the Physical Society of the ROC** (January, 2006).

26. **R. B. Chen**, C. H. Lee, C. P. Chang, and M. F. Lin (APS March06 Meeting) “Electronic and optical properties of finite carbon nanotubes in an electric field", **Bulletin of American Physical Society**, Vol. **51**, 584 (March, 2006).

27. C. L. Lu, Y. C. Huang, **R. B. Chen**, C. P. Chang, and M. F. Lin (APS March06 Meeting) “The influence of electric field on optical properties of the few-layer grapheme with AB-stacking”, **Bulletin of American Physical Society**, Vol. **51**, 586 (March, 2006).

28. C. H. Lee, **R. B. Chen**, T. S. Li, and M. F. Lin**,** “Effect of external fields on electronic structures of finite armchair carbon nanotubes”, **Proceeding of the 4th International Conference on Quantum Engineering Science**, P.5-P.9 (2006).

29. C. H. Lee, Y. H. Ho, **R. B. Chen**, andM. F. Lin**,** “Electronic structures of finite double-walled carbon nanotubes”, **International Conference on Superlattices, Nano-structures, and Nano-devices** (July, 2006).

30. **R. B. Chen**, "Excitation loss spectra of finite carbon nanotubes", **The 17th International Conference on the Electronic Properties of Two-Dimensional Systems,** PE111 (July, 2007).

31. C. H. Lee, **R. B. Chen**, and M. F. Lin, "Magnetoelectronic properties of finite double-walled carbon nanotubes", **The 13th International Conference on the Modulated Semiconductor Structures** (July, 2007).

32. C. H. Lee, **R. B. Chen**, and M. F. Lin, "Electronic structures of finite double-walled carbon nanotube under the external fields", **The 18th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotube, and Nitrides** (September, 2007).

33. C. H. Lee, Y. H. Ho, **R. B. Chen**, Y. C. Hsue, and **M. F. Lin**, "Electronic properties of finite double-walled carbon nanotubes under external fields", **Annual Meeting of the Physical Society of the ROC** (January, 2007).

1. **R. B. Che**n and M. F. Lin**,** "Electronic and optical properties of finite carbon nanotubes in an electric field", **Miniworkshop on Low-Dimensional Systems and Nanomaterials** (August, 2007).

35. C. H. Lee, **R. B. Chen**, Y. C. Hsue, T. S. Li, and M. F. Lin**\***, "Electronic structure of ribbon-graphene hybrid system", **The 2nd Conference on New Diamond and Nano Carbons** (May, 2008).

36. **R. B. Chen**, C. P. Chang\* and M. F. Lin, “Electric-field-tunable electronic properties of graphene quantum dots”, **The 18th International Conference on the Electronic Properties of Two-Dimensional Systems** (July, 2009).

37.C. H. Lee, W. S. Su, **R. B. Chen**, and M. F. Lin, "Low-energy electronic properties of ribbon-graphene hybrid systems", **The 18th International Conference on the Electronic Properties of Two-Dimensional Systems** (July, 2009).

38. **R. B. Chen\***, “Optical spectra of finite double-walled carbon nanotubes under electric fields, **The 18th International Conference on the Electronic Properties of Two-Dimensional Systems** (July, 2009).

39. **R. B. Chen**, C. P. Chang, and M. F. Lin, "Electric-field-tunable electronic properties of graphene quantum dots", **The 14th International Conference on the Modulated Semiconductor Structures** (July, 2009).

1. Y. H. Liu, J. Y. Wu, **R. B. Chen**, and M. F. Lin, "The effects of the modulated magnetic field on the Landau levels of monolayer graphene ribbon", **The 14th International Conference on the Modulated Semiconductor Structures** (July, 2009)**.**

41. C. H. Lee, S. C. Chen, **R. B. Chen**, and M. F. Lin, "Low-energy band structures of armchair ribbon-graphene hybrid systems", **The 21st European Conference on Diamond, Diamond-Like Materials, Carbon Nanotube, and Nitrides** (September, 2010)

42. Y. C. Ou**\***, **R. B. Chen,** C.H. Ho, Y. H. Chiu, and M. F. Lin, “Optical excitations of monolayer grapheme in the composite magnetic fields”**, The 21th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotube, and Nitrides** (September, 2010).

43. **R. B. Chen\***, Y. H. Chiu, “Magnetoelectronic properties of simple hexagonal graphite”, **The 21th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotube, and Nitrides** (September, 2010)

44. Y. C. Ou, Y. H. Chiu, **R. B. Chen**, M. F. Lin, “Optical absorption spectrum of monolayer graphene in an external composite field”, **The 19th international conference on Electronic Properties of Two-Dimensional Systems** (July, 2011).

45. Y. C. Ou, **R. B. Chen**, Y. H. Chiu, M. F. Lin, “Magnetoelectronic structure of monolayer graphene under composite magnetic fields”, **15th conference on Modulated Semiconductor Structures** (July, 2011).

46.Y. C. Ou, Y. H. Chiu, **R. B. Chen**, M. F. Lin**, “**Influence of modulated electric fields on the magneto-optical absorption spectra of graphene”, **Saratov Fall Meeting** (September, 2011).

47. Min Yen Yeh, Shu Shan Shie, **R. B. Chen**, “Preparation of Zn3N2 transparent transistor thin films by reactive DC sputtering” **IUMRS-ICA 2011 12th International Conference in Asia** (September, 2011).

48. Min Yen Yeh, Jing Yi Wang, Dong Sing Wuu, **R. B. Chen**, “Preparation of Cu2ZnS4 solar cell materials by electrodeposition” **IUMRS-ICA 2011 12th International Conference in Asia** (September, 2011).

49. **Rong-Bin Chen**, Chih-Wei Chiu, Ming-Fa Lin**,** “Magneto-electronic Coulomb excitations in AA-stacked graphite”**, Annual Meeting of the Physical Society of the ROC** (January, 2015)

50. Chih-Wei Chiu, **Rong-Bin Chen**, Feng-Lin Shyu, “Influence Of Electric Fields On Absorption Spectra Of AAB-Stacked Trilayer Graphene”, **Annual Meeting of the Physical Society of the ROC** (January, 2016)

四、專題研究計畫

1. 本校與國立中山大學105年度合作研究計畫**，「**研究新穎二維拓撲材料的電性、光性及磁性 (p003)」**，共同主持人**，執行期間：**2016/03/15~2016/12/31**
2. 科技部專題研究計畫**，「**維度相關石墨烯系統的物理性質(MST104-2112-M-017-001-)」**，共同主持人**，執行期間：**2015/09/01~2016/10/31**
3. 國科會專題研究計畫**，「**混合奈米碳系統的物理性質(NSC 92-2112-M-022 -001 -MY3)」**，主持人**，執行期間：**2008/08/01~2011/07/31**
4. 國科會專題研究計畫**，「**多樣有限長微管系統物理性質的研究(NSC 95-2112-M-022 -001 -MY2)」**，主持人**，執行期間：**2006/08/01~2008/07/31**
5. 國科會專題研究計畫**，「**有限長碳微管電子與光學性質的研究(NSC 94-2112-M-022 -001 -)」**，主持人**，執行期間：**2005/08/01~2006/07/31**
6. 國科會專題研究計畫**，「**碳微管的多體物理性質性質**(NSC94-2112-M-006-002-)**」**，共同主持人**，執行期間：**2003/08/01~2006/07/31**
7. 國科會專題研究計畫**，「**碳微管在磁場中的電子性質和磁光性質研究 **(NSC94-2112-M-006-002-)**」**，共同主持人**，執行期間：**2002/08/01~2003/07/31**

五、著作  
**Books**

六、技術報告  
**Technical Reports**

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七、專利  
**Patents**