# 師資介紹

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## 論文著述

一、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)**
8. F. L. Shyu, C. P. Chang,**R. B. Chen**, and M. F. Lin*, “Magneto Energy Gap of a Single-Walled Carbon Nanotube”,**J. Phys. Soc. Jpn. 72**, 454-455 (2003). **(SCI)**
9. F. L. Shyu, C. P. Chang,**R. B. Chen**, C.W. Chiu, and M. F. Lin*, “Magneto Electronic and Optical Properties of Carbon Nanotubes”,**Phys. Rev. B. 67**, 045405-045413 (2003). **(SCI)**
10. C. W. Chiu, F. L. Shyu, C. P. Chang,**R. B. Chen**,and M. F. Lin*, “Optical Spectra of AB- and AA-Stocked Nanographite Ribbons”, **J. Phys. Soc. Jpn**. **72**, 170-177 (2003). **(SCI)**
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,**and M. 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)**
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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)**
21. C. P. Chang*, C. L. Lu, F. L. Shyu,**R. B. Chen,**M. F. Lin, “Magnetoelectronic properties of AB-stacked graphite”, **Carbon 43**, 1424-1431 (2005). **(SCI)**
22. 22**. B. Chen**, C. P. Chang, J. S. Hwang, D. S. Chuu, M. F. Lin*, “Magnetization of finite carbon nanotubes”,**J. Phys. Soc. Jpn**. **74,** 1404-1407 (**Letter**, 2005). **(SCI)**
23. **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”,**Physica E 34**, 670-673 (2006). **(SCI)**
24. 24. J. H. Ho, C. P. Chang, **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
25. 25. C. L. Lu, C. P. Chang, Y. C. Huang, **B. Chen**, and M. F. Lin*,“Influence of an electric field on the optical properties of few-layer graphene with AB stacking”, **Phys. Rev. B 73**, 144427(7) (Apr. 2006). **(SCI),** IF 3.691
26. 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
27. **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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29. **R. B. Chen***, C. P. Chang, C. H. Lee, and M. F.Lin,. “Electron energy loss spectra of finite carbon nanotubes”, **J. Appl. Phys. 101**, 114305(5) (Jun. 2007). **(SCI),** IF 2.160
30. C. H. Lee,**R. B. Chen**, and M. F. Lin*, “Magnetoelectronic properties of finite double-walled carbon nanotubes”, **Physica E 40,** 2053-2055 (Apr. 2008). (**SCI**), IF 1.532
31. **R. B. Chen***, “Excitation loss spectra of finite carbon nanotubes”,**Physica E 40,** 1407-1409 ( Mar. 2008). (**SCI**), IF 1.532
32. C. H. Lee, Y. H. Ho,**R. B. Chen**, T. S. Li, and M. F. Lin*, “Electronic structures of finite double-walled carbon nanotubes”, **Phys. Stat. Sol. (C) 4**, 509-511 (Feb. 2007).
33. C. H. Lee, Y. C. Hsue,**R. B. Chen**, T. S. Li, and M. F. Lin*, "Electronic structures of finite double-walled carbon nanotubes in a magnetic field", **J. Phys.: Condens. Matter 20**, 075213(8) (Feb. 2008). **(SCI),** IF 2.546
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35. 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
36. 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
37. 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
38. **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
39. **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
40. 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
41. Y. H. Ho, J. Y. Wu**, R. B. Chen,** Y, H. Chiu***,** and M. F. Lin***, “**Optical transitions between Landau levels: AA-stacked bilayer grapheme**”, Appl. Phys. Lett. 97,** 101905(3) (Sep. 2010). **(SCI),** IF 3.844
42. **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
43. 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. 11**, 4938-4947 (Jun. 2011). **(SCI),** IF 1.563
44. 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
45. 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
46. 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
47. **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
48. **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
49. **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
50. **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
51. 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
52. **Rong-Bin Chen***, Szu-Chao Chen, Chih-Wei Chiu & Ming-Fa Lin*, “Optical properties of monolayer tinene in electric fields”, **Sci. Rep.7**, 1849 (May 2017). (SCI), IF 4.847
53. Z. Q. Huang,, W. C.hen,, G. M. Macam, C. P. Crisostomo, S. M. Huang, **R. B. Chen** , ... & F. C. Chuang*, ” Prediction of Quantum Anomalous Hall Effect in MBi and MSb (M: Ti, Zr, and Hf) Honeycombs”. **Nanoscale Research Letters 13(1)** , 43 (Feb. 2018). (SCI), IF 3.125.
54. Antaryami Mohanta, Der-Jun Jang*, Shu-Kai Lu, Dah-Chin Ling, J.S. Wang, **R.-B. Chen**, F.-C. Chuang, “Carrier recombination dynamics in electronically coupled multi-layer InAs/GaAs quantum dots”, **J. Lumin.195**, 109 (March 2018) (**SCI**), IF 2.558

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)**.**
2. **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)**.**
3. 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)**.**
4. 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).
5. 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)**.**
6. 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)**.**
7. **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)**.**

8. 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).
9. 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)**.**
10. 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)**.**
11. **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)**.**
12. 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)**.**
13. 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).
14. 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).
15. 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)**.**
16. 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).
17. 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)
18. 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)**.**
19. 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).
20. 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).
21. F. L. Shyu, C. C. Tsai, C. P. Chang,**R. B. Chen,**M. F. Lin, “Magnetic moment of armchair tori”, **Bulletin of American Physical Society**, **Vol. 49,** 246 (2004)**.**
22. 21. 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).
23. 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).
24. **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).
25. **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).
26. 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).
27. **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).
28. 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).
29. 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).
30. 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).
31. **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).
32. C. H. Lee,**R. B. Chen**, andM. F. Lin, "Magnetoelectronic properties of finite double-walled carbon nanotubes", **The 13th International Conference on the Modulated Semiconductor Structures** (July, 2007).
33. 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).
34. 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).
35. **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).
36. 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).
37. **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).
38. 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).
39. **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).
40. **R. B. Chen**, C. P. Chang, andM. F. Lin, "Electric-field-tunable electronic properties of graphene quantum dots", **The 14th International Conference on the Modulated Semiconductor Structures** (July, 2009).
41. 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)**.**
42. 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)

43. 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).
44. **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)
45. 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).
46. 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).
47. 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).
48. 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).
49. 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).
50. **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)
51. 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. 科技部專題研究計畫，「鉍相關層狀系統的光學性質(MST 107-2112-M-992 -002 -」，**主持人**，執行期間：2018/08/01~2019/07/31
2. 本校與國立中山大學106年度合作研究計畫，「研究二維過渡金屬的硫屬化合物之電性、拓撲材料，光性及磁性(p005)」，**共同主持人**，執行期間：2017/03/15~2017/12/31
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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**

Chiun-Yan Lin , **Rong-Bin Chen** , Yen-Hung Ho , Ming-Fa Lin, " Electronic and Optical Properties of Graphite-Related Systems", CRC Press Taylor and Francis Group, 2017.

六、技術報告

**Technical Reports**

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七、專利

**Patents**