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研究領域：奈米材料製作與應用、表面物理分析、  
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■ 期刊論文與研討會論文(2001~2016)：

一、期刊論文(corresponding author\*)

2016

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1. "Impact of cuticle photoluminescence on the color morphism of a male damselfly *Ischnura senegalensis* (Rambur, 1842)" C.-J. Chuang\*, C.-D. Liu, R. A. Patil, C.-C. Wu, Y.-C. Chang, C.-W. Peng, T.-K. Chao, J.-W. Liou, Y. Liou, Y.-R. Ma\* (2016) **Sci. Rep.** 6, 38051. DOI: 10.1038/srep38051 (IF=5.228, Cites=0)
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## 三、研討會論文

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55. "Artifact-Induced Displacement of Magnetic Nanoparticles", **Y.-R. Ma**, Y.-D. Yao, International Symposium on Advanced Magnetic Technologies, Taipei (2003).
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57. "Nanoparticle movements by means of atomic force microscopy tips in the tapping mode", **Y.-R. Ma** and Y.-D. Yao, 21<sup>st</sup> European Conference on Surface Science ECOSS-21 and NANO-7, (2002).
58. "Study of growth of straight multiwall carbon nanotubes", **Y.-R. Ma**, C.-H. Shee, K.-W. Cheng, M. S. Wong, J. C. Wu, H.-L. Liu, Y.-D. Yao and Y. Liou, 21<sup>st</sup> European Conference on Surface Science ECOSS-21 and NANO-7 (2002).
59. "Eutectic and oxidation effects on the growth of multiwall carbon nanotubes on arrays of nanometric iron dots", **Y.-R. Ma**, C.-H. Shee, K.-W. Cheng, M. S. Wong, J. C. Wu, Y.-D. Yao and Y. Liou, 中華民國物理年會 (2002).

60. “Atomic force microscope tip-induced local anodic oxidation on SiO<sub>2</sub>: nano-fabrication, kinetic and mechanism”, C. Yu, **Y.-R. Ma**, Y. Liou and Y.-D. Yao, 中華民國物理年會 (2001).
61. “Observation and Investigation of Plasimid DNA using an atomic force microscope”, A. Huang, **Y.-R. Ma**, H.-J. Chiang, 中華民國物理年會 (2001).
62. “The tapping-mode manipulation of nanoparticles using the AFM cantilevers”, **Y.-R. Ma**, and Y.-D. Yao, 8<sup>th</sup> Asia Pacific Physics Conference, Taipei (2000).
63. “Manipulation of scanning probe microscopy, and nano- technology”, **Y.-R. Ma**, 第二屆奈米奈米材料展望研討會, (2000).

#### 四、專利

美國專利 US2012/0104876 A1: Instantaneous Magnetohydrodynamic generator, May 3, 2012.

#### 五、近五年國科會計畫

年度	補助類別	學門分類	計畫名稱	擔任工作	核定經費 (新台幣)
105	專題研究計畫 (一般型研究計畫)	其他凝體－理論	自旋電子波波導與磁振子應用	主持人	10,707,000
105	延攬科技人才及兩岸科技交流 (延攬博士後研究人才)	其他凝體－實驗	自旋電子波波導與磁振子應用	主持人	925,380
105	國內專家學者出席國際學術會議	其他凝體－理論	AAPPS Summit of Editor-in-Chiefs Meeting (32nd Council Meeting of Association of Asia Pacific Physical Societies (AAPPS))	主持人	55,000
104	延攬科技人才及兩岸科技交流 (延攬博士後研究人才)	其他凝體－實驗	高度異向性奈米結構之偏極光致螢光	主持人	896,760
104	延攬科技人才及兩岸科技交流 (補助兩岸科技研討會)	物理	兩岸奈米科技與應用科學學術研討會	主持人	150,000
103	延攬科技人才及兩岸科技交流 (延攬博士後研究人才)	物理	二維純鋅奈米結構光電性質研究	主持人	0
103	專題研究計畫(一般型研究計畫)	其他凝體－實驗	高度異向性奈米結構之偏極光致螢光	主持人	5,535,000
102	專題研究計畫(雙邊協議專案型國際合作研究計畫)	半導體物理－實驗	金屬氧化物奈米線之奈米電子元件	主持人	1,520,000
102	延攬科技人才及兩岸科技交流 (延攬博士後研究人才)	其他凝體－實驗	二維純鋅奈米結構光電性質研究	主持人	996,300
102	國內舉辦國際學術研討會	光學工程	2013 年亞太資訊存取技術研討會	主持人	147,000
101	延攬科技人才及兩岸科技交流 (延攬博士後研究人才)	其他凝體－實驗	二維純鋅奈米結構光電性質研究	主持人	996,300
101	專題研究計畫(一般型研究計畫)	其他凝體－實驗	二維純鋅奈米結構光電性質研究	主持人	4,931,000

## 六、期刊審稿(as reviewers) for more than 100 manuscripts in 48 various SCI journals

ACS Applied Materials and Interfaces, ACS Nano, Acta Materials, Advanced Functional Materials, Applied Surface Science, Ceramics International, Chemistry of Materials, ChemPhysChem, Chemsensors, ChemSusChem, Chinese Journal of Physics, Coloration Technology, CrystEngComm, European Polymer Journal, IEEE Transaction on Magnetics, Journal of Alloy and Compounds, Journal of Applied Physics, Journal of Applied Crystallography, Journal of Crystal Growth, Journal of Magnetism and Magnetic Materials, Journal of Material Chemistry C, Journal of Material Science, Journal of Material Science & Technology, Journal of Nanoscience and Nanotechnology, Journal of Physics and Chemistry of Solids, Journal of Physics: Condensed Matter, Journal of Raman Spectroscopy, Journal of Vacuum, Science, and Technology A, Korean journal of Chemical Engineering, Langmuir, Material Science and Engineering B, Materials Chemistry Physics, Nano Research, Nanomaterials & Nanotechnology, Nanoscale, Particle & Particle System Characterization, Physical Chemistry Chemical Physics, Results in Physics, RSC Advances, Science of Advanced Materials, Smart Materials and Structures, Scientific Reports, Sensors, Small, Smart Materials & Structures, Solid State Science, Spectroscopy Acta Part A- Molecular and Biomolecular Spectroscopy, Surface Coating Technology, Surface Science, Thin Solid Films, Vacuum

## 七、個人榮譽

2017-2019 Physics Panel Member, Department of Natural Sciences and Sustainable Development, Ministry of Science and Technology, Taiwan

2016-Now Director and International-affair Dean, Physical Society of the Republic of China (PSROC), Taiwan

2015-Now Managing Editor, **Chinese Journal of Chinese**, Elsevier

2013-Now Editorial Board Member, **Scientific Reports**, **Nature Publishing Group**,

2013 教育部優秀教育人員與公務人員獎

2004-2016 中央研究院物理研究所訪問學者、

2007-2017 國立東華大學研究優良教授

2010 International Symposium on Optical Memory (ISOM) Local committee,

2010 Asia-Pacific Data Storage Conference (APDSC) Local committee,



2009-2017 台灣資訊儲存技術協會(Taiwan Information Storage Association, TISA)第四-七屆監事  
 2008 天津南開大學陳省身數學研究所訪問學者、  
 2007 國立東華大學優良教師、2007 國立東華大學優良教師  
 2005 國立東華大學理工學院教學服務獎  
 2004-2006、國立東華大學教師研究獎勵

#### 八、舉辦研討會

	名稱	參加人數
協辦	2013 年中華民國物理學會年會暨研究成果發表會 國立東華大學 29-31, January, 2013	~2000 人
協辦	Asia-Pacific Data Storage Conference (APDSC) 2010 Parkview Hotel, Hualien, October 27-29, 2010	~150 人
協辦	International Symposium on Optical Memory (ISOM) 2010 Parkview Hotel, Hualien, October 24-28, 2010	~200 人
主辦	Workshop On Nanosciences (WON) 2007 National Dong Hwa University, Hualien, Friday Oct. 5, 2007	~150 人
主辦	第二十五屆光譜技術與表面科學研討會 國立東華大學 2007 年 7 月 24 日 (二) ~27 日 (五)	~250 人
協辦	2005 物理博覽會-花蓮場 紀念偉大的物理學家-愛因斯坦 2005 年 11 月~12 月	~12,000 人
協辦	2003 年中華民國物理學會年會暨研究成果發表會 國立東華大學 92 年 2 月 12 日-14 日	~1,000 人