



Chun-Rong Lin 林春榮

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Magnetic Materials Laboratory

Research Field

Magnetism
Nanomaterials

Education

Ph. D., Physics, National Cheng Kung University,
R.O.C.(Taiwan)

Publications

1.1 Journal Papers

- 1.1.1 Chun-Rong Lin*, Oxana S. Ivanova*, Irina S. Edelman, Yuriy V.Knyazev, Sergey M. Zharkov, Dmitry A. Petrov, Alexey E. Sokolov, Eugeniy S.Svetlitsky, Dmitry A. Velikanov, Leonid A. Solovyov, Ying-Zhen Chen, Yaw-Teng Tseng, (2022, Jan). Carbon double coated Fe₃O₄@C@C nanoparticles: morphology features, magnetic properties, dye adsorption, *Nanomaterials*, 12(3), 376.
- 1.1.2 N. I. Snegirev*, S. S. Starchikov, I. S. Lyubutin, Yu. L. Ogarkova, M. V. Lyubutina, C.-R. Lin, (2021, Dec). Morphology, Phase Composition, and Properties of Nanosized Particles of Gallium Ferrite, Synthesized by Chemical Combustion, *Crystallography Reports*, 66, 1095–1099.
- 1.1.3 Aleksandr Spivakov, Chun-Rong Lin*, Ying-Zhen Chen, En-Szu Lin, Bing-Yi Chen, (2021, Nov). Preparation and magnetic properties of cobalt-doped FeMn₂O₄ spinel nanoparticles. *Materials Characterization, Nanoscale Research Letters*, 16, 162.
- 1.1.4 A.S.Fedorov, E.A.Kovaleva, A.E.Sokolov, M.A.Visotin, C.R.Lin, S.G.Ovchinnikov, (2021, Oct). Trimetallic magnetite-Ti-Au nanoparticle formation: A theoretical approach, *Materials Chemistry and Physics*, 271, 124847.
- 1.1.5 Sokolov, A. E., Ivanova, O. S., Fedorov, A. S., Kovaleva, E. A., Vysotin, M. A., Lin, C. -R., Ovchinnikov, S. G., (2021, Oct), Why the Magnetite-Gold Core-Shell Nanoparticles Are Not Quite Good and How to Improve Them, *Physics of the Solid State*, 63, (10), 1536-1540.
- 1.1.6 Chun-Rong Lin*, Oxana S. Ivanova*, Dmitry A. Petrov, Alexey E. Sokolov, Ying-Zhen Chen, Marina A. Gerasimova, Sergey M. Zharkov, Yaw-Teng Tseng, Nicolay P. Shestakov, Irina S. Edelman, (2021, Sep). Amino-functionalized Fe₃O₄@SiO₂ core-shell magnetic nanoparticles for dye adsorption, *Nanomaterials*, 11(9), 2371.
- 1.1.7 Aleksandr Spivakov, Chun-Rong Lin*, Yu-Chuan Chang, Ying-Zhen Chen, (2021, May). Synthesis of Fe_{1-x}S nanoparticles with various superstructures by a simple thermal decomposition route and their magnetic properties. *Nanomaterials*, 11(6), 1447.

1.2 Conference Papers

Academic Projects

2.1 MOST Projects(In recent years)

- 2.1.1 Principal investigator - Chun-Rong Lin

General research project :

2.1.1.1 Magneto-plasmonic effect in spinel nanoparticles capsulated in carbon and noble metal shells. (MOST 106-2112-M-153-001-MY3 ; Execution duration : 2017/08/01 ~ 2020/07/31(Additional period : 2020/12/31))

2.1.1.2 Electronic transport, magneto-optical and Mössbauer spectroscopy of monodisperse self-assembled cobalt-doped iron-manganite spinel nanoparticle arrays (1/3) (MOST 109-2112-M-153-003- ; Execution duration : 2020/08/01 ~ 2021/07/31(Additional period : 2021/12/31))

2.1.1.3 Electronic transport, magneto-optical and Mössbauer spectroscopy of monodisperse self-assembled cobalt-doped iron-manganite spinel nanoparticle arrays (2/3) (MOST 110-2112-M-153-005- ; Execution duration : 2021/08/01 ~ 2022/07/31)

2.1.2 Postdoctoral research :

Aleksandr Spivakov

2.1.2.1 MOST 106-2811-M-153-002- ; Execution duration : 2018/02/01 ~ 2018/09/30

2.1.2.2 MOST 107-2811-M-153-500- ; Execution duration : 2018/10/01 ~ 2019/07/31

2.1.2.3 MOST 108-2811-M-153-500- ; Execution duration : 2019/08/01 ~ 2020/07/31

2.1.2.4 MOST 109-2811-M-153-500- ; Execution duration : 2020/08/01 ~ 2021/07/31

2.1.3 Taiwan-Russian MOST cooperation (add-on) project :

2.1.3.1 Multifunctional materials based on core-shell magnetic nanoparticles and magnetic nanoparticles/polymer nanocomposites. (MOST 108-2923-M-153-001-MY3 ; Execution duration : 2019/01/01 ~ 2021/12/31)

2.2 MOE

2.3 Others

Relevant Experience

3.1 Academic Experience

3.2 Teaching Experience

3.3 Others

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