

## **Curriculum Vitae**

Wei-Peng Li

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### **Education:**

Bachelor - Department of Chemistry, Soochow University, Taipei, Taiwan (2006.07-2011.06)

PhD - Department of Chemistry, National Cheng Kung University (NCKU), Tainan, Taiwan (2011.07-2015.06)

### **Experience:**

1. Postdoctoral fellow - Department of Chemistry, National Cheng Kung University, Tainan, Taiwan (2015.07-2018.06)
2. Postdoctoral fellow - Center of Applied Nanomedicine, National Cheng Kung University, Tainan, Taiwan (2018.07-2018.12)
3. Postdoctoral fellow - International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Tsukuba, Japan (2019.01-2020.06)
4. Assistant professor - Department of Medicinal and Applied Chemistry, Kaohsiung Medical University (KMU), Kaohsiung, Taiwan (2020.8-present)
5. Adjunct assistant research fellow - Department of Medical Research, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan (2021.1-present)

**Interests:** materials chemistry; nanotechnology; nanomedicine; microbial electrochemistry; liposome; exosome; outer membrane vesicle

**Honor:**

1. Outstanding Young Scholar Award from Taiwan Nanomedicine Society (TNS) in Taiwan, 2020.
2. Yushan Young Scholar from the MOE in Taiwan, 2020.
3. MANA postdoctoral fellow in Japan, 2019.
4. Postdoc Academic Publication Award from MOST in Taiwan, 2018.
5. Award for Excellent Contributions in Technology Transfer from MOST in Taiwan, 2018.
6. Young Researcher Award from Taiwan Comprehensive University System, 2016.
7. Outstanding Publication Award from Tian Ming Peng Academic Research Foundation of Chemistry in NCKU, 2016.
8. Outstanding Paper Award in the discipline of physical chemistry from Chemical Society Located in Taipei, 2015.
9. Outstanding Publication Award from Tian Ming Peng Academic Research Foundation of Chemistry in NCKU, 2015.

**Publications list:**

(1) **Wei-Peng Li\***, Chia-Jui Yen, Bo-Sheng Wu, and Tak-Wah Wong\*. Recent Advances in Photodynamic Therapy for Deep-Seated Tumors with the Aid of Nanomedicine. *Biomedicines*, **2021**, 9, 69-89. (IF:4.717)

(2) Kamaljit Kaur, Pulkit Bindra, Sanjit Mondal, **Wei-Peng Li**, Sandeep Sharma, Bandana Kumari Sahu, Boddu S. Naidu, Chen-Sheng Yeh, Ujjal K. Goutam, and

*Vijayakumar Shanmugam\**. Upconversion Nanodevice-Assisted Healthy Molecular Photocorrection. *ACS Biomaterials Science & Engineering*, **2020**, 7, 291-298.

(3) *Chia-Hao Su, Wei-Peng Li, Ling-Chuan Tsao, Liu-Chun Wang, Ya-Ping Hsu, Wen-Jyun Wang, Min-Chiao Liao, Chin-Lai Lee, and Chen-Sheng Yeh\**. Enhancing Microcirculation on Multi-triggering Manner Facilitates Angiogenesis and Collagen Deposition on Wound Healing by Photo-Released NO from Hemin-Derivatized Colloids. *ACS Nano*, **2019**, 13, 4290-4301. (IF:13.903) (first author)

(4) *Divinah Manoharan, Wei-Peng Li, and Chen-Sheng Yeh*. Advances in Controlled Gas-Releasing Nanomaterials for Therapeutic Applications. *Nanoscale Horizons*, **2019**, 4, 557-578. (IF:9.095) (first author)

(5) *Chung-Dann Kan, Jieh-Neng Wang, Wei-Peng Li, Shao-Hsien Lin, Wei-Ling Chen, Ya-Ping Hsu, and Chen-Sheng Yeh*. Clinical Ultrasound Stimulating Angiogenesis Following Drug-Release from Polymersomes on the Ischemic Zone for Peripheral Arterial Occlusive Disease. *Nanomedicine: NBM*, **2018**, 14, 2205-2213. (IF:6.5)

(6) *Chih-Yu Lin, Wei-Peng Li, Shao-Peng Huang, Chen-Sheng Yeh, and Chia-Min Yang*. Hollow Mesoporous Silica Nanosphere-Supported FePt Nanoparticles for Potential Theranostic Applications. *J. Mater. Chem. B*, **2017**, 5, 7598-7607. (IF:4.543)

(7) *Wei-Peng Li, Chia-Hao Su, Sheng-Jung Wang, Fu-Ju Tsai, Chun-Ting Chang, Min-Chiao Liao, Chun-Chieh Yu, Thi-Tuong Vi Tran, Chaw-Ning Lee, Wen-Tai Chiu, Tak-Wah Wong, and Chen-Sheng Yeh*. CO<sub>2</sub> Delivery Decrease of pH to Accelerate Incisional Wound Healing Following Single Irradiation of Near-Infrared Lamp on the Coordinated Colloids. *ACS Nano*, **2017**, 11, 5826-5835. (IF:13.942) (first author)

(8) *Wei-Peng Li, Chia-Hao Su, Ling-Chuan Tsao, Chun-Ting Chang, Ya-Ping Hsu, and Chen-Sheng Yeh*. Controllable CO Release Following Near-Infrared Light-Induced Cleavage of Iron Carbonyl Derivatized Prussian Blue Nanoparticles for CO Assisted Synergistic Treatment. *ACS Nano*, **2016**, 10, 11027-11036. (IF:13.334) (first author)

(9) **Wei-Peng Li**, Chia-Hao Su, Yi-Ching Chang, Yu-Jiung Lin, Chen-Sheng Yeh. Ultrasound-Induced Reactive Oxygen Species Mediated Therapy and Imaging Using a Fenton Reaction Activable Polymersome. *ACS Nano*, **2015**, *10*, 2017-2027. (IF:12.881)

(first author)

(10) Ze-Cong Wu, **Wei-Peng Li**, Cheng-Hung Luo, Chia-Hao Su, Chen-Sheng Yeh. Rattle-Type Fe<sub>3</sub>O<sub>4</sub>@CuS Developed to Conduct Magnetically Guided Photoinduced Hyperthermia at First and Second NIR Biological Windows. *Advanced Functional Materials*, **2015**, *25*, 6527–6537. (IF:11.373)

(11) **Wei-Peng Li**, Pei-Yi Liao, Chia-Hao Su, Chen-Sheng Yeh. Formation of Oligonucleotide-Gated Silica Shell-Coated Fe<sub>3</sub>O<sub>4</sub>-Au Core–Shell Nanotrisoctahedra for Magnetically Targeted and Near-Infrared Light-Responsive Theranostic Platform. *Journal of the American Chemical Society*, **2014**, *136*, 10062–10075. (IF:14.444) (first author)

(12) **Wei-Peng Li**, Vijayakumar Shanmugam, Chih-Chia Huang, Guo-Dong Huang, Yun-Kai Huang, Shu-Hua Chiua, Chen-Sheng Yeh. Eccentric Inorganic-Polymeric Nanoparticles Formation by Thermal Induced Cross-Linked Esterification and Conversion of Eccentricity to Raspberry-Like Janus. *Chemical Communications*, **2013**, *49*, 1609-1611. (IF:6.378) (first author)

#### **Patents:**

1. Chen-Sheng Yeh, **Wei-Peng Li**, Ian Liao, Wei-Tien Chang. CARRIERS AND USES THEREOF, I616211, Taiwan (ROC), **2018**.

#### **International conference participation:**

1. Oral: 15<sup>th</sup> International Drug Discovery Science and Technology **2017**, Osaka, Japan.

2. Competition of 3-minute poster presentation : 8<sup>th</sup> International Nanomedicine Conference **2017**, Sydney, Australia.
3. Poster: 4<sup>th</sup> Asian Conference on Coordination Chemistry **2013**, Jeju, Korea.  
& Materials Today Asia Conference **2014**, Kowloon, Hong Kong.  
& 8<sup>th</sup> International Conference on Materials for Advanced Technologies **2015**, Singapore city, Singapore.  
& 26<sup>th</sup> IUPAC Symposium on Photochemistry **2016**, Osaka, Japan.  
& 8<sup>th</sup> International Nanomedicine Conference **2017**, Sydney, Australia.