

Dr. Hua Wei Chen

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簡歷 Short Bio

➤ Dr. Chen got his PhD degree at National Taiwan University of Science and Technology in 2007. In 2017, he is currently a professor at the Department of Chemical and Materials Engineering, National Ilan University (NIU), Taiwan. Dr. Chen have published more than 68 international journal papers and 21 patents.

研究方向Research Topics

- ➤ Green synthesis and characterization of magnetic nanoparticles with graphene and carbon quantum dot.
- Advance oxidation process (Ozone, Potocatalysts, Fenton/biomass fuel cell).
- > Biomaterial and cosmetic material.
- Air quality and human health.

獲獎Awards

Lin, Y. F., Chen, H. W., Chen, Y. C., and Chiou, C. S., "Application of magnetite modified with polyacrylamide to adsorb phosphate in aqueous solution," J. Taiwan Inst. Chem. Eng., Vol. 44, pp.45-51, (2013). (Taiwan Institute of Chemical Engineers Outstanding Paper Award)

近三年著作 Published papers (2020~2022)

- 1. Wang, Y. T., Chiou, C. S., Chang, S. Y., and <u>Chen, H. W.*</u>, "Enhancement of Electrical Properties by a Composite FePc/CNT/C Cathode in a Bio-Electro-Fenton Microbial Fuel Cell System, Photocatalytic Activity and Recovery of Recyclable Photocatalysts," J. Nanosci. Nanotechnol. Vol. 20, pp. 3252-3257 (2020). [SCI: 1.134; Category: CHEMISTRY, MULTIDISCIPLINARY; Rank 137/177; *Q4*]
- 2. <u>Chen, H. W.*</u> and Lin, M. F., "Characterization, biocompatibility, and optimization of electrospun SF/PCL/CS composite nanofibers," Polymers Vol. 12(7), 1436 (2020). [SCI: 4.329; Category: POLYMER SCIENCE; Rank 102/143; *Q1*; MOST 107-2221-E-197-001-MY2]
- 3. <u>Chen, H. W.*</u> and Chang, Y. W., "Encapsulation of Clitoriaternatea extract in liposomes by synergistic combination of probe-type ultrasonication and high-pressure processing," J. Food. Saf. e12859 (2020). [SCI: 1.953; Category: FOOD SCIENCE & TECHNOLOGY; Rank 102/143; *Q3*; MOST 108-2622-E-197-004-CC3]
- 4. <u>Chen, H. W.*</u> and Chang, S. H., "Magnetic nanoadsorbents with amino-functionalized polymers for magnetic separation removal of copper ion," *Environ. Technol.* Vol. 43(6), pp. 805-814 (2022).

- [SCI: 3.247; Category: ENVIRONMENTAL SCIENCES; Rank 125/274; *Q2*; MOST 108-2622-E-197-004-CC3]
- 5. <u>Chen, H. W.*</u>, Chang, Y. W. and Wu, P. F, "A new approach for the microencapsulation of Clitoria Ternatea petal extracts by a high-pressure processing method," *Pharmaceutics* (2020) Vol. 13, pp. 22-33 (2021). [SCI: 6.321; Category: Pharmacology & Pharmacy; Rank 29/276; *Q1*; MOST 108-2622-E-197-004-CC3]
- 6. <u>Chen, H. W.*</u>, Chiou, C. S., Wu, Y. P., Chang, C. H. and Lai, Y. H., "Magnetic nanoadsorbents derived from magnetite and graphene oxide for simultaneous adsorb of nickel ion, methylparaben, and reactive black 5," *Desalin. Water Treat.* Vol. 224, pp. 168-177 (2021). [SCI: 1.254; Category: ENGINEERING CHEMICAL; Rank 110/143; *Q4*; MOST 109-2622-E-197-002-CC3]
- 7. Chen, H. W.*, Lin, M. F., Lai, Y. H. and B.Y. Chen, "Skin-friendly dressing with alcohols treatment for enhancement of mechanical and biocompatible properties," *J. Taiwan Inst. Chem. Eng.* Vol. 129, pp. 256-263 (2021). [SCI: 5.876; Category: ENGINEERING CHEMICAL; Rank 25/143; *Q1*; MOST 109-2622-E-197-002-CC3]
- 8. <u>Chen, H. W.*</u> and Wu, P. F., "A novel method for the microencapsulation of curcumin by high-pressure processing for enhancing the stability and preservation," *Int. J. Pharm.* Vol. 613, 121403 (2022). [SCI: 5.875; Category: Pharmacology & Pharmacy; Rank 37/276; *Q1*; MOST 109-2622-E-197-002-CC3]
- 9. Chen, W. T., <u>Chen, H. W.</u>, Chou, C. C. and Tsai, Y. P., "Two Ecological Engineering Technologies to Treat River Pollution in Changhua County, Taiwan, *CLEAN Soil, Air, Water , 2200115* (2022). [SCI: 1.770; Category: MARINE & FRESHWATER BIOLOGY; Rank 57/110; *Q3*]
- 10. Chen, W. T., Wu, H. T., Chang, I. C., <u>Chen, H. W.*</u>, Fang, W. P., "Preparation of curcumin-loaded liposome with high bioavailability by a novel method of high pressure processing," *Chem. Phys. Lipids* Vol. 244, 105191 (2022) [SCI: 3.329; Category: BIOPHYSICS; Rank 32/71; Q2; MOST 109-2622-E-197-002-CC3]
- 11. Chen, H. W., Kuo, Y. L., Chen, C. H., Chiou, C.S., Lai, Y. H., Chen, W. T., "Biocompatibile nanofiber based membranes for high-efficiency filtration of nano-aerosols with low air resistance," *Process Saf. Environ. Prot.* Vol. 167, pp. 695-707 (2022). [SCI: 7.926; MOST 111-2622-E-197-003]
- 12. Chen, W. T., Wu, H. T., Chang, I. C., <u>Chen, H. W.*</u>, Fang, W. P., "Improving the stability and bioactivity of curcumin using chitosan-coated liposomes through a combination mode of high-pressure processing," *LWT Food Sci. Technol.* Vol. 168, 113946 (2022) [SCI: 6.056; MOST 110-2622-E-197-005]