



Kuo Ching Wu

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Education:

PhD (1998/9~2003/12) Chemical and Materials Engineering, National Central University, Taiwan

M.S. (1987/9~1989/6) Chemical Engineering, National Tsing Hua University, Taiwan

B.S. (1983/9~1987/6) Department of Chemical Engineering, Feng Chia University

Experience:

Researcher (1991/8~now) Department of of Advance Catalysis, Material and Chemical Research
Laboratories, Industrial Technology Research Institute (ITRI)

Selective Honors & Awards:

1. R&D 100 Awards, CO₂ fixing Polycarbonate (Feb./2024~now)
2. ITRI Industrialization Contribution Award (2023)
3. ITRI MCL Invention Award (2025)
4. ITRI MCL Invention Award (2023)

Research Areas:

Catalysts; Synthesis of specialty chemicals; Carbon dioxide reuse; Air pollution reduction

Selective Publications:

1. "METAL OXIDE CATALYST AND METHOD OF SELECTIVELY AND CHEMICALLY REDUCING CARBON DIOXIDE", *TW I904963* (2025).
2. "CATALYST MIXTURE AND METHOD OF SYNTHESIZING ALKANES/OLEFINS", *TW I901477* (2025).
3. "IRON-BASED CATALYST AND METHOD OF HYDROGENATING CARBON DIOXIDE", *TW I891127* (2025).
4. "GAS REMEDIATION DEVICE", *TW I889062* (2025).
5. "METHOD AND DEVICE FOR MANUFACTURING COMPOUNDS FROM ISOBUTYRIC ACID AND ACETIC ANHYDRIDE", *TW I831090* (2024).
6. "CATALYST AND METHOD FOR SELECTIVELY CHEMICALLY REDUCING CO₂ TO FORM CO", *TW I778890* (2022).