Prof. Chien-Kuo Hsieh

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Areas of Expertise

- The synthesis of low-dimensional nanomaterials including carbon dots, CNTs, graphene, TMDCs nanomaterials, Pt and other high-performance catalytic nanomaterials.
- Various synthesis technologies for low-dimensional nanomaterials, MOFs.
- Energy generation and storage applications; Clean and purification for environments.
- Dye-sensitized solar cells, Supercapacitors, Methanol oxidation reaction, Water splitting.
- Chemical vapor deposition, Physical vapor deposition, Electrochemical deposition.

Academic Degrees

Ph.D. (2012) - Engineering and System Science, National Tsing Hua University.

M.S. (2002) - Materials Science and Engineering, National Tsing Hua University.

B.S. (2000) - Materials and Mineral Resources Engineering, National Taipei University of Technology.

Career Experiences

Professor (2019/08 ~): Ming Chi University of Technology, New Taipei City, TWN.

Associate professor (2015/08 ~ 2019/07): Ming Chi University of Technology, New Taipei City, TWN.

Assistant professor (2012/08 ~ 2015/07): Ming Chi University of Technology, New Taipei City, TWN.

Postdoctoral researcher (2012/04 ~ 2012/07): National Tsing Hua University, Hsinchu, TWN.

Front-End engineer (2002/07 ~ 2011/05): Applied Materials, Hsinchu, TWN.

Honors and Awards

1) 2022 Taiwan Innotech Expo (TIE), Copper metal award.
2) 2021 Taiwan Innotech Expo (TIE), Silver metal award.

3) 2020 Carbon Society of Taiwan, Outstanding Service Award.
4) 2020 Taiwan Innotech Expo (TIE), Gold metal award.
5) 2019 Taiwan Innotech Expo (TIE), Gold metal award.
6) 2019 Taiwan Innotech Expo (TIE), Special technology award.
7) 2019 Energy Technology Creative Implementation Competition, Ministry of Education Taiwan, Gold metal award.
8) 2012 Phi Tau Phi honorary member of National Tsing Hua University.

Patterns

1) 2022 United States Patent, No. 11,246,238 B2.
2) 2021 Invention Patent of Republic of China, No. I750654.
3) 2020 Invention Patent of Republic of China, No. I707010.
4) 2019 Invention Patent of Republic of China, No. I664017.
5) 2019 Invention Patent of Republic of China, No. I664016.

Publications

[1] Journal of Colloid and Interface Science, 625 (2022) 565-575.
[2] J Alloy Compd, 897 (2022) 163031.
[3] Surface and Coatings Technology, 394 (2020) 125855.
[4] Surface and Coatings Technology, 393 (2020) 125850.
[5] Surface and Coatings Technology, 398 (2020) 126075.
[6] Appl Surf Sci, 505 (2020) 143828.
[7] Electrochimica Acta, 317 (2019) 312-321.
[8] J Power Sources, 417 (2019) 108-116.
[9] Surface and Coatings Technology, 350 (2018) 1003-1009.
[10] Surface and Coatings Technology, 344 (2018) 534-540.
[11] J Alloy Compd, 692 (2017) 941-949.
[12] Mater Lett, 192 (2017) 40-43.
[13] Surf Coat Tech, 320 (2017) 263-269.
[14] Surf Coat Tech, 320 (2017) 584-589.
[15] Surface and Coatings Technology, 320 (2017) 536-541.
[16] Surface and Coatings Technology, 320 (2017) 409-413.
[17] ChemElectroChem, 4 (2017) 2414-2422.