Chi-Chang Hu

Chair Professor

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Research interest

1. Electrochemistry and Advanced Materials.
2. Energy Storage and Conversion Materials.
3. Electrochemical Desalination.
4. Electroplating and Surface Finishing.
5. Graphene.

Achievements and Honors

1. 2022 Top 1000 Scientists in Materials Science & Top 2000 Scientists in hemistry (Research.com).
2. 2021 Top 2% Scientists (Stanford University).
3. 2020 Outstanding Professor of Engineering, Chinese Institute of Engineers, Taiwan.
4. 2016-2019 Outstanding Scholar, National Science Council, Taiwan.
5. 2015 Prof. Shi Yang-Pin Article Award, TIChE, Taiwan.
6. 2014 The Society of Chemical Engineering Japan (SCEJ) Award for Outstanding Asian Researcher and Engineer, Japan.
7. 2013 Outstanding Research Award, MOST, Taiwan.
8. 2010 Outstanding Research Award, MOST, Taiwan.
9. 2009-2012 Outstanding Scholar, National Science Council, Taiwan.
10. 2010 The Junior Research Investigator Award, Academia Sinica, Taiwan.
11. 2007 Outstanding Research Award, MOST, Taiwan.
12. 2007 Tajima Prize, International Society of Electrochemistry.
13. 2006 Thomson Scientific Citation Laureate Award.

Publications(selected papers- >310 publications, H-index = 71, Total citations >18,000)

1. Chi-Chang Hu, Kuo-Hsin Chang, Ming-Champ Lin, and Yung-Tai Wu "Design and tailor the nanotubular arrayed architecture of hydrous RuO2 for supercapacitors of next generation", Nano Letters, 2006, 6, 2690-2695. (Total citation > 1500)
2. Te-Yu Wei, Chun-Hung Chen, Hsing-Chi Chien, Shih-Yuan Lu, Chi-Chang Hu, "A Cost-Effective Supercapacitor Material of Ultrahigh Specific Capacitances: Spinel Nickel Cobaltite Aerogels from an Epoxide-Driven Sol-Gel Process", Advanced Materials, 2010, 22, 347-351. (Total citation > 1000)
3. Chi-Chang Hu and Ta-Wan Tsou, "Ideal Capacitive Behavior of Hydrous Manganese Oxide Prepared by Anodic Deposition", Electrochemistry Communications, 2002, 4, 105-109. (Total citation > 500)
4. Chi-Chang Hu, Wei-Chun Chen and Kuo-Hsin Chang, "How to Achieve Maximum Utilization of Hydrous Ruthenium Oxide for Supercapacitors" J. Electrochem. Soc., 2004, 151, A281-A290. (Total citation > 350)
5. Shin-Yi Yang, Kuo-Hsin Chang, Hsi-Wen Tien, Ying-Feng Lee, Shin-Ming Li, Yu-Sheng Wang, Jen-Yu Wang, Chen-Chi M. Ma, Chi-Chang Hu, "Design and tailoring of a hierarchical graphene-carbon nanotube architecture for supercapacitors", J. Mater. Chem., 2011, 21, 2374-2380. (Total citation > 350)