

國防大學理工學院應用化學及材料科學系教師個人資料表

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	個人網站	

一、個人學歷：

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
中正理工學院	中華民國	機械系材料組	學士	自 1993 / 8 至 1997 / 11
國防大學 中正理工學院	中華民國	兵器系統研究所	碩士	自 2001 / 8 至 2003 / 6
國防大學 理工學院	中華民國	國科所應用兵器組	博士	自 2005 / 8 至 2009 / 6

二、個人經歷：

服務機構	服務部門／系所	職稱	起訖年月(西元年/月)
國防大學理工學院	化學及材料工程學系	副教授	2016 / 2 至迄今
國防大學理工學院	化學及材料工程學系	助理教授	2012 / 2 至 2016 / 2
陸軍保修指揮部	地面裝備管理組	兵工參謀官	2011 / 2 至 2012 / 2
陸軍步兵學校	裝步戰鬥組	教官	2009 / 7 至 2011 / 2
陸軍六軍團 21 砲指部	保修支援連	連長	2003 / 7 至 2005 / 8
陸軍後勤學校	車輛組	教官	2000 / 8 至 2001 / 8
陸軍六軍團 21 砲指部	保修支援連	排長/副連長	1999 / 3 至 2000 / 8
陸軍金門防衛司令部第二八四師	支援營主支連	排長	1997 / 11 至 1999 / 3

三、研究領域：

1. 材料工程	2. 太陽能電池	3. 透明陶瓷研製	4. 機械合金法
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四、教授課程：

1. 材料科學導論	2. 物理冶金	3. X 光繞射原理	4. 普通化學
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五、論文著述

(一) 期刊論文

項次	年度	發表著作
1	106	Hsiang-Cheng Wang, Hung-Hua Sheu , Kung-Hsu Hou, Shun-Yi Jian, Ming-Hsien Lin, Ming-Der Ger, Preparation and Characterization of a Bilayer Cr-C/Ni-P Coating on Aluminum 5052 as Bipolar Plates. International Journal of Electrochemical Science, Vol. 12, 5331 – 5348. (SCI)
2	106	Hung-Hua Sheu* , Shun-Yi Jian, Ming-Hsien Lin, Chih-I. Hsu, Kung-Hsu Hou, Ming-Der Ger, Electroless Ni-P/PTFE Self-Lubricating Composite Thin Films Applied for Medium-carbon Steel Substrate. International Journal of Electrochemical Science, Vol. 12, 5464 – 5482. (SCI)
3	106	Hung-Hua Sheu* , Bo-Hao Huang, Yen-Chung Chen, Effect of Yb doping concentration on crystallization kinetics in yttrium aluminum garnet nano-powders. Ceramics International, Vol. 43, 7776–7783. (SCI)
4	106	Hung-Hua Sheu* , Shun-Yi Jian, Tzu-Te Lin, Ya-Wei Lee, Effect of rotational speed of an electromagnetic stirrer on neodymium-doped yttrium aluminum garnet nanoparticle size during co-precipitation. Microelectronic Engineering, Vol. 176, 33-39. (SCI)
5	105	Hung-Hua Sheu* , Yu-Tien Hsu, Shun-Yi Jian, Shih-Chang Liang, “The effect of Cu concentration in the photovoltaic efficiency of CIGS solar cells prepared by co-evaporation technique,” Vacuum, Vol. 131, pp. 278 – 284, 2016. (SCI).
6	105	H.H. Sheu , H.B. Lee*, S.Y. Jian, C.Y. Hsu, C.Y. Lee, “Investigation on the corrosion resistance of trivalent chromium conversion passivate on electroplated Zn–Ni alloy,” Surface & Coatings Technology, Vol. 305, pp. 241 – 248, 2016. (SCI).

7	105	Hung-Hua Sheu* , Chien-Hung Lin, Shun-Yi Jian, Hung-Bin Lee*, Bing-Ruei Yang, Ming-Der Ger, "Effects of Complexing Agents and Current Density on Carbon Content of Trivalent Chromium Carbon Coating and Its Properties," Int. J. Electrochem. Sci., Vol. 11, pp. 7099 – 7110, 2016. (SCI).
8	105	Hung-Hua Sheu* , Sin-De Lin, Ming-Der Ger and Li-Chuan Chen, "Prepared Nd:YAG nano-particles by using co-precipitation process," Journal of Chung Cheng Institute Technology, Vol. 45, No. 1, pp. 64-74, 2016. (EI).
9	105	Hung-Hua Sheu , Chen-En Lu, Hung-Bin Lee, Nen-Wen Pu, Po-Fan Wu, Sheau-Hwa Hsieh, Ming-Der Ger, "Electrodeposition of black chromium–cobalt alloy based on trivalent sulfate electrolyte," Journal of the Taiwan Institute of Chemical Engineers, Vol. 59, pp. 496-505, 2016. (SCI).
10	104	Chen-En Lu, Jeou-Long Lee, Hung-Hua Sheu* , Kung-Hsu Hou, Chun-Chieh Tseng, Ming-Der Ger, "Preparation and Characterizations of High Carbon Content Cr-C Coatings Electroplated from a Trivalent Chromium-Based Bath," Int. J. Electrochem. Sci., Vol. 10, pp. 5405 – 5419, 2015. (SCI).
11	104	Hsiang-Cheng Wang, Hung-Hua Sheu , Chen-En Lu, Kung-Hsu Hou, Ming-Der Ger, "Preparation of corrosion-resistant and conductive trivalent Cr-C coatings on 304 stainless steel for use as bipolar plates in proton exchange membrane fuel cells by electrodeposition," Journal of Power Sources, Vol. 293, pp. 475 – 483, 2015. (SCI).
12	104	Hung-Hua Sheu* , Chen-En Lu, Kung-Hsu Hou, Ming-Lun Kuo, Ming-Der Ger*, "Effects of alumina addition and heat treatment on the behavior of Cr coatings electroplated from a trivalent chromium bath," Journal of the Taiwan Institute of Chemical Engineers, Vol. 48, pp. 73-80, 2015. (SCI).
13	104	Hung-Hua Sheu* , Ming-En Liu, Yi-Lung Tsai, "The phase evolution of CuIn0.7Ga0.3Se2 compound powder prepared using high-energy ball milling," Powder Technology, Vol. 269, pp. 345-350, 2015. (SCI)
14	104	Lin-Chang Tsai, Hung-Hua Sheu , Cheng-Chieh Chen, Ming-Der Ger, "The Preparation of the Chromized Coatings on AISI 1045 Carbon Steel Plate with the Electroplating Pretreatment of Ni or Ni/Cr-C Film," Int. J. Electrochem. Sci., Vol. 10, pp. 317 – 331, 2015. (SCI).
15	103	Hung-Hua Sheu* , Chun-Chen Yang, Shih-Chang Liang, Lin-Chang Tsai, Nen-Wen Pu, "Effect of dc sputtering power on structure and electrical properties of Mo thin films," Journal of Chung Cheng Institute Technology, Vol. 43, No. 2, pp. 61-68, 2014. (EI).

16	103	Pao-Chang Huang, Kung-Hsu Hou, <u>Hung-Hua Sheu</u> , Ming-Der Ger, Gao-Liang Wang, "Wear Properties of Ni-Mo Coatings Produced by Pulse Electroforming," Surface & Coatings Technology, Vol. 258, pp. 639-645, 2014. (SCI).
17	103	Han-Tao Wang, <u>Hung-Hua Sheu</u> , Ming-Der Ger, Kung-Hsu Hou, "The effect of heat treatment on the microstructure and mechanical properties of electrodeposited nanocrystalline Ni-W/diamond composite coatings," Surface & Coatings Technology, Vol. 259, pp. 268-273, 2014. (SCI).
18	103	Te-Yuan Chiang, Ay-Su*, Lin-Chang Tsai, <u>Hung-Hua Sheu*</u> , Chen-En Lu, "Corrosion Resistance of 5052 Al-alloy with a Zirconia-Rich Conversion Coating Used in Bipolar Plates in PEMFCs," Int. J. Electrochem. Sci., Vol. 9, pp. 5850 – 5863, 2014. (SCI).
19	103	呂承恩、 <u>許宏華</u> 、侯光煦、葛明德，以電鍍法製備 Cr-C 類陶瓷合金鍍層之特性研究，化工，第六十一卷，第四期，第 54-65 頁，2014 年。(EI)。
20	103	Kung-Hsu Hou, Han-Tao Wang, <u>Hung-Hua Sheu</u> , Ming-Der Ger, "Preparation and wear resistance of electrodeposited Ni-W/diamond composite coatings," Applied Surface Science, Vol. 308, pp. 372-379, 2014. (SCI).
21	103	<u>Hung-Hua Sheu*</u> , Chung-An Wang, Yih-Ming Liu, Hui-Yun Bor, "Effect of hafnium addition and heat treatment process on the microstructure and mechanical properties of Inconel 718 superalloy," Journal of Chung Cheng Institute Technology, Vol. 43, No. 1, pp. 55-66, 2014. (EI)
22	102	<u>Hung-Hua Sheu</u> , Pao-Chang Huang, Lin-Chang Tsai, Kung-Hsu Hou, "Effect of plating parameters on the Ni-P-Al ₂ O ₃ composite coatings prepared by pulse and direct current plating," Surface & Coatings Technology, Vol. 235, pp. 529-535, 2013. (SCI).
23	102	蔣良慧、 <u>許宏華</u> 、程偉堃、白清源、葛明德，脈衝電鍍三價鉻製備鉻-碳合金鍍層之研究，防蝕工程，第二十七卷，第三期，第 109-116 頁，2013 年。(EI)。
24	98	<u>Sheu, H. H.</u> , Hsiung, L. C. and Sheu, J. R., "Synthesis of Multiphase Intermetallic Compounds By Mechanical Alloying in Ni-Al-Ti System," <i>J. Alloys Comp.</i> , Vol. 469, pp. 483-487, 2009. [SCI]
25	98	Hsiung, L. C. and <u>Sheu, H. H.</u> , "A Comparison of the Phase Evolution in Ni, Al and Ti Powder Mixtures Synthesized by SHS and MA Processes," <i>J. Alloys Comp.</i> , Vol. 479, pp. 314-325, 2009. [SCI]

(二) 研討會論文

項次	年度	發表著作
1		

(三) 專書及專書論文

項次	年度	發表著作
1	98	許宏華，2009，「以機械合金法製備鎳-鋁-鈦三相介金屬複材之熱，動力學研究」，博士論文，桃園。
2	92	許宏華，2000，「不同加工製程對鋁基複合材料熱傳導性質影響之研究」，碩士論文，桃園。

七、專利申請

項次	年度	發表著作