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經歷：

教育部國家講座教授(2006 年 9 月~2009 年 7 月) 國立清華大學化工系副教授(1973 年~1979 年), 教授(1979 年~2009 年 7 月), 兼生物工程中心主任(2000 年), 講座教授(2003 年 9 月~2005 年), 生醫中心主任(2007 年 7 月~2009 年 7 月), 特聘講座教授(2006 年~2009 年 7 月)。

借調國立中興大學化工系教授及創系所主任(1993 年~1997 年), 工學院院長(2000 年 8 月~2002 年 7 月), 副校長(2000 年 12 月~2001 年 11 月), 代理校長(2001 年 2 月~2001 年 10 月)

客座教授, 美國凱斯西儲大學高分子科學系所(1993 年~1994 年), 日本東京農工大學(1989 年)及德國梅茵茲大學(1991 年)

中華民國生醫材料與藥物制放學會理事長(1998 年~2003 年), 榮譽理事長(2003 年~迄今)

總統府科技諮詢委員基礎科學及尖端科技組副召集人(2001 年~2006 年)

中國工程師學會台中分會理事長(2001 年 7 月~2003 年 6 月)

IUPAC 國際高分子研討會(臺北)主辦人及專輯論文總編輯(1994 年 11 月)

第三屆亞洲國際生醫材料及藥物制放研討會(台北)主辦人及專輯論文總編輯(2002 年 4 月)

教育部首次全國大學校務評鑑私校工程類組總召集人(2005 年)

國際藥物制放學會台灣分會會長(2000 年~迄今)

國際組織工程及再生醫學會台灣區會長(2005 年~迄今)

榮譽：

中國化學工程學會「最佳論文獎」(1985年)
國家科學委員會「傑出研究獎」(1986~1987年、1988~1989年、1990~1991年、1992~1993年、1994~1995年)共五屆十年
國家科學委員會「特約研究員」(1995年8月~2001年7月)共二屆六年
國家科學委員會「傑出特約研究員獎」(2002年)
中山學術著作獎(1990年)
中國工程師學會「傑出工程教授獎」(1992年)
李遠哲基金會「傑出人才講座」(1996年~2001年)
教育部「學術獎」(1997年)
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國際化學聯盟會士(IUPAC Fellow)(2002年3月~迄今)
日本高分子學會之國際貢獻獎(SPSJ International Award)(2003年)
國立清華大學「清華工程講座教授」(2003年~2005年)
高分子學會獎章「終生成就獎」(2005年)
有庠科技講座獎「生技醫藥講座」(2006年)
教育部「國家講座」(2006年~2009年)
國立清華大學「特聘講座教授」(2006~2009年)
國際生醫材料科學與工程學院會士(IUSBSE Fellow)(2008年~迄今)
國立清華大學「榮譽特聘講座教授」(2009年8月~迄今)

編輯委員：

中國化學會誌(1975~1982)
中國化學工程學刊(1981~1984)
中國工程學刊(1983~1999)
Journal of Polymer Research(1994~2001)
J. Chin. Inst. Chem. Engrs.(1997~2001)
Materials Chemistry and Physics(1992~2003)
J. Biomaterials Science: Polymer Ed.(2006~迄今)

薛教授近五年著作 (Selected Papers) : (*: corresponding author, s: SCI paper) :

- 1^{*.S.} H. C. Tsai, W. J. Kuo and G. H. Hsiue, (2005). "Highly Thermal Stability Nonlinear Optical Polyimide Based on Carbazole", Macromolecule Rapid Communication, 26, 986-991. (SCI: 3.366)
- 4^{*.S.} C. H. Wang and G.H. Hsiue, (2005). "Polymer-DNA Hybrid Nanoparticles Based on Folate-Polyethylenimine- Block-Poly (L-lactide)", Bioconjugate Chemistry, 16, 391-396. (SCI: 3.766)
- 5^{*.S.} C. H. Wang, K. R. Fan and G.H. Hsiue, (2005). "Enzymatic Degradation of New Biodegradable PLLA-PEOz-PLLA Triblock Copolymers", Biomaterials, 26, 2803-2811. (SCI: 3.799)
- 6^{*.S.} C. L. Lo, K. M. Lin and G. H. Hsiue, (2005). "Preparation and Characterization of Intelligent Core-Shell Nanoparticles Based on Poly (D,L-lactide)-g-poly(N-isopropyl acrylamide-co-methacrylic acid) ", J. Controlled. Release., 104, 477-488. (SCI: 3.297)
- 7^{*.S.} C. H. Wang, C. H. Wang and G. H. Hsiue, (2005). "Polymeric Micelles with a pH-Responsive Structure as Intracellular Drug Carriers", J. Controlled. Release., 108, 140-149. (SCI: 3.297)
- 8^{*.S.} L. W. Chu, G. H. Hsiue and I. N. Lin, (2005). "Ultra-fine Ba₂Ti₉O₂₀ Powders Synthesized by Inverse Microemulsion Processing and Their Microwave Dielectric Properties", J. American Ceram. Soc. 88, (12), 3405-3411. (SCI: 1.748)
- 9^{*} C. H. Chen, H. W. Liu, C. L. Tsai, W. J. Chen, C. H. Shih and G.H. Hsiue, (2005). "Osteoinduction and Osteogenesis of a Novel Bone Morphogenetic Protein-Conjugated Poly-(D, L-Latide-co-Glycolide), Hydroxyapatite, and Collagen Composite Bone", J. Orthop. Surg. Taiwan., 22, 131-141.
- 10^{S.} G. H. Hsiue, J. Y. Lai, K. H. Chen and W. M. Hsu, (2006). "A Novel Strategy for Corneal Endothelial Reconstruction with a Bioengineered Cell Sheet", Transplantation, 81, 473-476. (SCI: 3.972)
- 11^{*.S.} L.W. Chu, G.H. Hsiue and I.N. Lin, (2006) "Synthesis of Ba₂Ti₉O₂₀ Materials via a Dissolution-Precipitation Mechanism in a Hydrothermal Process", Acta Materialia, 54, 1671-1677. (SCI: 3.549)
- 12^{*.S.} L. W. Chu, G. H. Hsiue, I. N. Lin and Y. C. Chen, (2006). "Novel Reaction Mechanism for the Synthesis of Ba₂Ti₉O₂₀ Materials by Nano-Sized Intermediate Materials", Nanotechnology, 17, 185-191. (SCI: 3.037)
- 13^{*.S.} C. H. Wen, M. J. Chuang and G. H. Hsiue, (2006). "Asymmetric Surface Modification of Poly(ethylene terephthalate) Film by CF₄ Plasma Immersion", J. Apply. Surface Science, 252, 3799-3805. (SCI: 1.436)
- 14^{*.S.} L. W. Chu, G. H. Hsiue and I. N. Lin, (2006). "Characteristics of Ba₂Ti₉O₂₀ Microwave Dielectric Materials Prepared by Modified Co-precipitation Method", Ferroelectrics, 332, 131-138. (SCI: 0.389)
- 15^{*.S.} L. W. Chu, G. H. Hsiue, Y. J. Chiang and I. N. Lin, (2006). "Microwave Dielectric Properties of Ba₂Ti₉O₂₀ Materials Prepared by Reaction Sintered Process" Ferroelectrics, 332,139-146. (SCI: 0.389)
- 16^{*.S.} G. H. Hsiue, H. Z. Chiang and C. H. Wang, (2006). "Novel pH-Sensitive Gene Carriers based on Diblock Copolymers of Poly(2-ethyl-2-oxazoline) and Linear Polyethylenimine", Bioconjugate Chemistry, 17, 781-786. (SCI: 3.823)
- 17^{*.S.} G. H. Hsiue, C. H. Wang, C. L. Lo, C. H. Wang, J. P. Li and J. L. Yang, (2006). "Environmental-Sensitive Micelles Based on Poly(2-ethyl-2-oxazoline) -b- Poly(L-lactide) Diblock Copolymer for Application in Drug Delivery", Internal. J. Pharm, 317, 69-75. (SCI: 2.212)

- 18^{*.S}. J. Y. Lai, P. L. Lu, K. H. Chen, Y. Tabata and G. H. Hsiue, (2006). "Effect of Charge and Molecular Weight on the Functionality of Gelatin Carriers for Corneal Endothelial Cell Therapy", Biomacromolecules, 7, 1836-1844. (SCI: 3.664)
- 19^{*.S}. H. W. Liu, C. H. Chen, C. L. Tsai and G. H. Hsiue, (2006). "Targeted Delivery System of Juxtacrine Signaling Growth Factor by rhBMP-2 Mediated Carrier Protein Conjugation", Bone, 39, 825-836. (SCI: 3.829)
- 20^{*.S}. J. Y. Lai, K. H. Chen, W. M. Hsu, G. H. Hsiue and Y. H. Lee, (2006). "Bioengineered Human Corneal Endothelium for Transplantation", Arch. Ophthalmol., 124, 1441-1448. (SCI: 3.206)
- 21^{*.S}. L. W. Chu, G. H. Hsiue and I. N. Lin, (2006). "Improvement on the Characteristic of Ba₂Ti₉O₂₀ Microwave Dielectric Materials Prepared by Modified Co-precipitation Method", J. Euro. Ceram. Soc., 26, 2081-2085. (SCI: 1.576)
- 22^{*.S}. C. H. Wen, M. J. Chuang and G. H. Hsiue, (2006). "Plasma Fluorination of Polymers in Glow Discharge Plasma with a Continuous Process", Thin Solid Films., 503, 103-109. (SCI: 1.666)
- 23^{*.S}. G. H. Hsiue, and R. H. Lee, (2006). "Molecular and Collective Relaxations of Ferroelectric Side Chain Liquid Crystalline Polysiloxanes", J. Polym.Sci.: Polym. Phys., 44, 2035-2049. (SCI: 1.622)
- 24^{*.S}. C. L. Lo, K. M. Lin, C. H. Huang and G. H. Hsiue, (2006). "Self-assembly of a Novel Micelle Structure from Graft and Diblock Copolymers: an Example for Determined the Limit on Polyions in Drug Delivery", Advanced Functional Materials, 16, 2309-2316. (SCI: 6.779)
- 25^{*.S}. C. L. Lo, C. K. Huang, K. M. Lin and G.H. Hsiue, (2007). "Mixed Micelles Formed from Graft and Diblock Copolymers for Application in Intracellular Drug Delivery", Biomaterials, 28(8), 1225-1235. (SCI: 6.262)
- 26^{*.S}. G. H. Hsiue, C. L. Lo, C. H. Cheng, C. P. Lin, C. K. Huang and H. H. Chen, (2007). "Preparation and Characterization of Poly(2-methacryloyloxyethyl phosphorylchloride)- b-poly(D,L-lactide) Polymer Nanoparticles", J. Polym. Sci. Part A: Polym. Chem., 45, 688-698. (SCI: 3.529)
- 27^{*.S}. L. W. Chu, G. H. Hsiue and I. N. Lin, (2007). "Dispersant Optimization using Phosphate Ester for Multilayer Ceramic Capacitor Based on Nano-BaTiO₃ Materials", Colloids and Surface A., 294(1-3), 212-220. (SCI: 1.601)
- 28^{*.S}. C. K. Huang, C. L. Lo, H. H. Chen, and G. H. Hsiue, (2007). "Multifunctional Micelles for Cancer Cell Targeting, Distribution Imaging, and Anticancer Drug Delivery", Advanced Functional Materials, 17, 2291-2297. (SCI: 7.496)
- 29^{*.S}. H. C. Tsai, I. C. Yu, P. H. Chan, D. Y. Yu and G. H. Hsiue, (2007). "Novel π -Electron Extension System via Chromophores Self-polymerization to Enhance the NLO Efficiency", Macromolecular Rapid Communications, 28(3), 334-339. (SCI: 3.383)
- 30^{*.S}. H. W. Liu, C. H. Chen, C.L. Tasi, I.H. Lin and G.H. Hsiue, (2007). "Heterobifunctional Poly(Ethylene Glycol)-Tethered Bone Morphogenetic Protein-2-Stimulated Bone Marrow Mesenchymal Stromal Cell Differentiation and Osteogenesis", Tissue Engineering, 13(5), 1113-1124. (SCI: 4.409)
- 31^{*.S}. J. Y. Lai and G. H. Hsiue, (2007). "Functional Biomedical Polymers for Corneal Regenerative Medicine", Reactive and Functional Polymers., 67, 1284-1291. (SCI: 1.720)
- 32^{*.S}. P. L. Lu, J. Y. Lai, Y. Tabata and G. H. Hsiue, (2007). "A Methodology Based on the "Anterior Chamber of Rabbit Eyes" Model for Noninvasively Determining the Biocompatibility of Biomaterials in an Immune Privileged Site", J. Biomed. Mater. Res. A., 86(1), 108-116. (SCI: 2.612)

- 33^{*.S.} H. F. Wei, G. H. Hsiue and C. Y. Liu, (2007). "Surface Modification of Multi-walled Carbon Nanotubes by a Sol-Gel Reaction to Increase Their Compatibility with PMMA Resin", Composites Science and Technology, 67, 1018-1026. (SCI: 2.171)
- 34^{*.S.} K.J. Lee, G. H. Hsiue, J. L. Wu and Y. A. Sha, (2007). "Molecular Structure of Side-Chain Liquid Crystalline Polysiloxane in the Smectic C Phase from X-ray Diffraction and Molecular Modeling" Polymer, 48, 5161-5173. (SCI: 3.065)
- 35^{*.S.} J. Y. Lai, K. H. Chen and G. H. Hsiue, (2007). "Tissue-Engineered Human Corneal Endothelial Cell Sheet Transplantation in a Rabbit Model Using Functional Biomaterials", Transplantation, 84(10), 1222-1232. (SCI: 3.641)
- 36^{*.S.} P. L. Lu, J. Y. Lai, D. H. K. Ma and G. H. Hsiue, (2008). "Carbodiimide Cross-Linked Hyaluronic Acid Hydrogels as Cell Sheet Delivery Vehicles: Characterization and Interaction with Corneal Endothelial Cells", J. Biomater. Sci., Polym. Ed., 19(1), 1-18. (SCI: 1.862)
- 37^{*.S.} H. F. Wei, G. H. Hsiue, C. Y. Liu and K. F. Chen, (2008). "Enhancement of Dimension Uniformity of Wet-etched Thick Insulator Holes in Triode Carbon Nanotube Field Emission Display Devices", Japanese J. Appl. Phys., 47(12), 8998-9002. (SCI: 1.042)
- 38^{*.S.} H. W. Liu, C. H. Chen, C. L. Tsai and G. H. Hsiue, (2008). "Photoencapsulation of Bone Morphogenetic Protein-2 and Periosteal Progenitor Cells Improve Tendon Graft Healing in a Bone Tunnel", The American Journal of Sports Medicine, 36(3), 461-473. (SCI: 3.397)
- 39^{*.S.} P. H. Chang, H. C. Tsai, Y. R. Chen, J. Y. Chen and G. H. Hsiue, (2008). "Thermal Stability and Structural Characterization of Organic/Inorganic Hybrid Nonlinear Optical Material Containing Two-Dimensional Chromophore", Langmuir, 24(20), 11921-11927. (SCI: 4.009)
- 40^{*.S.} J. Y. Lai, P. K. Lin, G. H. Hsiue, H. Y. Cheng, S. J. Huang and Y. T. Li, (2008). "Low Bloom Strength Gelatin as a Carrier for Potential Use in Retinal Sheet Encapsulation and Transplantation", Biomacromolecules, 10(2), 310-319. (SCI: 4.169)
- 42^{*.S.} C. L. Lo, S. J. Lin, H. C. Tsai, W. H. Chan, C. H. Tsai, C. H. D. Cheng and G. H. Hsiue, (2008). "Mixed Micelle Systems Formed Critical Micelle Concentration and Temperature-Sensitive Diblock Copolymers for Doxorubicin Delivery", Biomaterials, 30, 3961-3970. (SCI: 6.262)
- 43^{*.S.} C. H. Wang, W. T. Wang and G. H. Hsiue, (2009) "Development of Polyion Complex Micelles for Encapsulating and Delivering Amphotericin B", Biomaterials, 30, 3352-3358. (SCI: 6.262)
- 44^{*.S.} P. H. Chang, J. Y. Chen, H. C. Tsai, and G. H. Hsiue, (2009) "Molecular Design of Nonlinear Optical Polymer Based on DCM to Enhance the NLO Efficiency and Thermal Stability", J. Polym. Sci. Pol. Chem., 47, 4937-4949. (SCI: 3.821)
- 45^{*.S.} H. C. Tsai, W. H. Chang, C. L. Lo, C. H. Tsai, C. H. Chang, T. W. Ou, T. C. Yen, G. H. Hsiue, (2009). "Graft and Diblock Copolymer Multifunctional Micelles for Cancer Chemotherapy and Imaging", Biomaterial, 31, 2293-2301 (SCI: 6.262)
- 41^{*.S.} C. P. Lin and G. H. Hsiue, (2009). "Synthesis and Design of Non-Viral Gene Carriers Based on Poly(2-ethyl-2-oxazoline)-b-Linear Polyethylenimine", Biomacromolecule, submitted.

薛教授近五年專利

1. 朱立文、鐘政育、林諭男、陳惠如、薛敬和「具高微波介電特性之低溫共燒陶瓷材料製法」，中央標準局專利權號數：發明第 I240713 號，民國 94 年 10 月 1 日。
2. G. H. Hsiue, J. Y. Lai “ Biopolymer-Bioengineered Cell Sheet Construct”, US patent. Pub. No. 20080050423 A1, Feb. 28, 2008.
3. 薛敬和、駱俊良、林克敏、黃俊凱、陳宏豪「多功能複合型奈米微胞之製備與應用」，中華民國專利，公開號碼 200817456，民國 97 年 4 月 16 日。
4. G. H. Hsiue, C. L. Lo, K. M. Lin, C. K. Huang, H. H. Chen“Multifunctional Mixed Micelle of Graft and Block Copolymers and Preparation Thereof”, US patent. Pub. No. 2008/0081075 A1, Apr. 3, 2008.
5. G.H. Hsiue, C.L. Lo, H.H. Chan, C.K. Huang, “Multifunctional Micelle for Trigger Drug Delivery, Disease Diagnosis and Recognition”, US, Japan, Taiwan patents preparation.
6. G.H. Hsiue, C.L. Lo, H. J. Lin, “Multifunctional Micelle of Cmc and Cmt Copolymers and Preparation Thereof”, US, Japan, Taiwan patents preparation.
7. G.H. Hsiue, J.Y. Lai, “ Tissue-Engineered Cell Sheets for Corneal Banking and Method of Using the Same ” , US, Taiwan patents applied.
8. 王朝暉、薛敬和、林哲平、王先知、林進益 「團聯共聚高分子及包含此共聚高分子之奈米微胞」，中華民國專利，發明第 I286076 號，民國 96 年 9 月 1 日。
9. 王朝暉、薛敬和、林進益、王先知 “聚噁唑啉-聚乳酸高分子衍生物與多功能微胞」，中華民國專利，公告號碼 TW286076 (B) ，民國 96 年 9 月 1 日。
10. C. H. Wang, G. H. Hsiue, C. I Lin, J. Wang, “Block Copolymers and Nano Micelles Comprising the Same”, US, Patents, Pub. No. 2007154398A1, Sep. 1, 2007.
11. 薛敬和、賴瑞陽 “生物聚合物-生醫工程細胞層的結構物”，中華民國專利，發明第 I314449 號，民國 98 年 9 月 11 日。
12. G.H. Hsiue, C.L. Lo, H. C. Tsai, “Biocompatible Multifunctional Mixed Micelles for Cancer Targeting Imaging and Therapy and Preparation Thereof”, US Provisional Patent Applied, Japan and Taiwan applied.