

研究成果目錄 (更新日期: 2016 年 11 月 05 日)

(A) 期刊論文

1. Sheng-Huei Hsiao,* Kai-Han Lin, **Synthesis and properties of electroactive aromatic polyimides with methyl- or trifluoromethyl-protecting triphenylamine units**, *High Perform. Polym.*, in press, online first 16 June 2016.
2. Sheng-Huei Hsiao,* Ying-Hsiu Hsiao, **Synthesis and electrochemical properties of new redox-active polyimides with (1-piperidinyl)triphenylamine moieties**, *High Perform. Polym.*, in press, online first 08 May 2016.

3. Sheng-Huei Hsiao,* Ying-Hsiu Hsiao, Yu-Ruei Kung, Chyi-Ming Leu, Tzong-Ming Lee, **Triphenylamine-based redox-active aramids with 1-piperidinyl substituent as an auxiliary donor: Enhanced electrochemical stability and electrochromic performance**, *React. Funct. Polym.*, **108**, 54-62 (2016/11).
4. Sheng-Huei Hsiao,* Li-Chu Wu, **Fluorescent and electrochromic polymers from 2,8-di(carbazol-9-yl)dibenzothiophene and its S,S-dioxide derivative**, *Dyes and Pigments*, **134**, 51-63 (2016/11).
5. Sheng-Huei Hsiao,* Chien-Nan Wu, **Electrochemical and electrochromic studies of redox-active aromatic polyamides with 3,5-dimethyltriphenylamine units**, *J. Electroana. Chem.*, **776**, 139-147 (2016/09).
6. Sheng-Huei Hsiao,* Kai-Han Lin, **A comparative study on the properties of aromatic polyamides with methyl- or trifluoromethyl-substituted triphenylamine groups**, *J. Fluorine Chem.*, **188**, 33-42 (2016/08).
7. Sheng-Huei Hsiao,* Hui-Min Wang, **Facile fabrication of redox-active and electrochromic poly(amide-amine) films through electrochemical oxidative coupling of arylamino groups**, *J. Polym. Sci., Part A: Polym. Chem.*, **54**(16), 2476-2485 (2016/08).
8. Sheng-Huei Hsiao,* Yu-Ruei Kung, **Synthesis and properties of poly(amine-amide)s and poly(amine-imide)s based on 4,4'-diamino-4''-fluorotriphenylamine**, *J. Fluorine Chem.*, **186**, 79-90 (2016/06).
9. Sheng-Huei Hsiao,* Hui-Min Wang, **Electrochemically fabricated electrochromic films from 4-(N-carbazolyl)-triphenylamine and its dimethoxy derivative**, *RSC Adv.*, **6**(49), 43470-43479 (2016/05).
10. Sheng-Huei Hsiao,* Ying-Hsiu Hsiao, Yu-Ruei Kung, **Highly redox-stable and electrochromic aramids with morpholinyl-substituted triphenylamine units**, *J. Polym. Sci., Part A: Polym. Chem.*, **54**(9), 1289-1298 (2016/05).
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12. Sheng-Huei Hsiao,* Jhe-Yong Lin, **Electrosynthesis of ambipolar electrochromic polymer films from anthraquinone-triarylamine hybrids**, *J. Polym. Sci., Part A: Polym. Chem.*, **54**(5), 644-655 (2016/03).
13. Sheng-Huei Hsiao,* Ying-Hsiu Hsiao, Yu-Ruei Kung, **Synthesis and characterization of new redox-active and electrochromic polyimides with (4-morpholinyl)triphenylamine units**, *J. Electroana. Chem.*, **764**, 31-37 (2016/03).
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 24. Sheng-Huei Hsiao,* Nien-En Liu, Yu-Ruei Kung, **Synthesis of electroactive and electrochromic poly(amide-imide)s containing diphenylpyrenylamine moieties**, *J. Polym. Res.*, **22**(2): 9 (14 pages) (2015/02).
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(B) 研討會論文

國際會議

1. Shu-Wei Lin, Sheng-Huei Hsiao*, "**Electrosynthesis of electrochromic polycarbazole films from 3,6-di(carbazol-9-yl)-*N*-phenylcarbazole derivatives**", The 12th International Meeting on Electrochromism (IME-12), Aug. 28 - Sept. 1, 2016, Delft, Netherlands.
2. Yi-Zhi Chen, Wei-Kai Liao, Sheng-Huei Hsiao*, "**Electrochemical synthesis of redox-active poly(arylamine-imide)s from bis(triphenylamine)-diimides for electrochromic applications**", STEPI 10 Polyimides & High Performance Polymers, June 6-8, 2016, Montpellier, France.
3. Shu-Wei Lin, Sheng-Huei Hsiao,* "**POE-P-010: Electrosynthesis of poly(amine-amide) and poly(amine-imide) electrochromic films from diamide- or diimide-cored *N*-phenylcarbazole dendrons**", European Polymer Congress 2015 (EPF 2015), June 21 – 26, 2015, Dresden, Germany.
4. Jhe-Yong Lin, Sheng-Huei Hsiao,* "P10: **Electrosynthesis of electrochromic polymer films of anthraquinone- triarylamine hybrids**", The 11th International Meeting on Electrochromism (IME-11), August 31 – September 4, 2014, National Taiwan University, Taipei, Taiwan.
5. Hui-Min Wang, Sheng-Huei Hsiao,* "P2.028: **Facile preparation of multielectrochromic polymeric films via oxidative electro-coupling of arylamino groups**", 22th International Conference for Science and Technology of Synthetic Metals (ICSM 2014), 30 June – 5 July, 2014, Turku, Finland.
6. Hui-Min Wang, Sheng-Huei Hsiao,* "Poster-S5-014: **Substituent effect on electrochemical and electrochromic properties of aromatic polyimides with 4-(carbazol-9-yl)triphenylamine units**", The 13th Pacific Polymer Conference (PPC 13), Nov. 17-22, 2013, Kaohsiung, Taiwan.
7. Hui-Min Wang, Sheng-Huei Hsiao,* "P7-44: **A new fluorescent and electrochromic polymer from 4-(carbazol-9-yl)triphenylamine**", European Polymer Congress 2013 (EPF 2013), June 16 –21, 2013, Pisa, Italy.
8. Hui-Min Wang, Sheng-Huei Hsiao,* "P-44: **New cross-linked multielectrochromic polymeric films through the electro-coupling reactions of arylamino groups**", 2012 Asia-Pacific Polyimides and High Performance Polymers Symposium (2012 亞太地區聚醯亞胺及高性能高分子研討會) November 20-24, 2012, National Taiwan University, Taipei, Taiwan.
9. Hui-Min Wang, Pei-Chi Chang, Sheng-Huei Hsiao,* "P-42: **Synthesis and electrochromic properties of novel poly(ether-imide)s derived from a new triphenylamine-bis(ether anhydride) monomer**", 2012 Asia-Pacific Polyimides and High Performance Polymers Symposium, November 20-24, 2012, National Taiwan University, Taipei, Taiwan.
10. Hui-Min Wang, Jun-Wen Lin, Sheng-Huei Hsiao,* "P-43: **Electrosynthesis and properties of novel electroactive polymers from the diamide or diimide derivatives with terminal triphenylamino groups**", 2012 Asia-Pacific Polyimides and High Performance Polymers Symposium, November 20-24, 2012, National Taiwan University, Taipei, Taiwan.
11. Hui-Min Wang, Sheng-Huei Hsiao,* "**Synthesis of new triaryamine-based polyimides for electrochromic applications**", 19th International Conference on Organic Synthesis (ICOS19), July 1-6, 2012, Melbourne, Australia.
12. Hui-Min Wang, Sheng-Huei Hsiao,* "T4-186: **Synthesis and properties of novel triptycene-based polyimides**", European Polymer Congress 2011 (EPF 2011), June 26 – July 1, 2011, Granada, Spain.
13. Hui-Min Wang, Sheng-Huei Hsiao,* "T4-185: **Enhancement on redox-stability and electrochromic performance of aromatic polyamides incorporating 3,6-dimethoxycarbazolyl-substituted triphenylamine units**", European Polymer Congress 2011 (EPF 2011), June 26 – July 1, 2011, Granada, Spain.
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24. Sheng-Huei Hsiao,* Guey-Sheng Liou, Yi-Tzu Chen, Yi-Chun Kung, "**Synthesis and optoelectronic properties of polyhydrazides and poly(1,3,4-oxadiazole)s containing 4-*tert*-butyltriphenylamine moiety**", European Polymer Congress 2007 (epf 2007), P1.2.20, July 2-July 6, 2007, Portoroz, Slovenia.
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