

# Guey-Sheng Liou

## List of Publications by Citations

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209  
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74  
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211  
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8,428  
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#	Paper	IF	Citations
209	Novel Aromatic Poly(Amine-Imide)s Bearing A Pendent Triphenylamine Group: Synthesis, Thermal, Photophysical, Electrochemical, and Electrochromic Characteristics. <i>Macromolecules</i> , <b>2005</b> , 38, 307-316	5.5	237
208	Solution-processable triarylamine-based electroactive high performance polymers for anodically electrochromic applications. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 255-264	4.9	199
207	Highly stable anodic green electrochromic aromatic polyamides: synthesis and electrochromic properties. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1007-1015		173
206	Flexible Multi-Colored Electrochromic and Volatile Polymer Memory Devices Derived from Starburst Triarylamine-Based Electroactive Polyimide. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5307-5318	15.6	167
205	Highly Stable Anodic Electrochromic Aromatic Polyamides Containing N,N,N',N'-Tetraphenyl-p-Phenylenediamine Moieties: Synthesis, Electrochemical, and Electrochromic Properties. <i>Macromolecules</i> , <b>2008</b> , 41, 1667-1674	5.5	145
204	Novel trends of electrochemical oxidation of amino-substituted triphenylamine derivatives. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 575, 95-101	4.1	127
203	High Contrast Ratio and Rapid Switching Electrochromic Polymeric Films Based on 4-(Dimethylamino)triphenylamine-Functionalized Aromatic Polyamides. <i>Macromolecules</i> , <b>2008</b> , 41, 2800-2808	5.5	121
202	Novel Starburst Triarylamine-Containing Electroactive Aramids with Highly Stable Electrochromism in Near-Infrared and Visible Light Regions. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1874-1882	9.6	120
201	Synthesis, Photophysical, and Electrochromic Characterization of Wholly Aromatic Polyamide Blue-Light-Emitting Materials. <i>Macromolecules</i> , <b>2006</b> , 39, 5337-5346	5.5	116
200	Solution-Processable Novel Near-Infrared Electrochromic Aromatic Polyamides Based on Electroactive Tetraphenyl-p-Phenylenediamine Moieties. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4062-4070	9.6	114
199	Novel high-Tg poly(amine-imide)s bearing pendent N-phenylcarbazole units: synthesis and photophysical, electrochemical and electrochromic properties. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1831		102
198	Recent advances in triphenylamine-based electrochromic derivatives and polymers. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3001-3018	4.9	99
197	Synthesis and characterization of novel soluble triphenylamine-containing aromatic polyamides based on N,N'-bis(4-aminophenyl)-N,N'-diphenyl-1,4-phenylenediamine. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 2810-2818	2.5	98
196	Novel aromatic polyamides and polyimides functionalized with 4-tert-butyltriphenylamine groups. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 4579-4592	2.5	97
195	Highly transparent AgNW/PDMS stretchable electrodes for elastomeric electrochromic devices. <i>Nanoscale</i> , <b>2017</b> , 9, 2633-2639	7.7	95
194	Novel aromatic polyamides bearing pendent diphenylamino or carbazolyl groups. <i>Journal of Polymer Science Part A</i> , <b>2004</b> , 42, 3302-3313	2.5	92
193	Programmable digital memory devices based on nanoscale thin films of a thermally dimensionally stable polyimide. <i>Nanotechnology</i> , <b>2009</b> , 20, 135204	3.4	87

192	High-Performance Electrofluorochromic Devices Based on Electrochromism and Photoluminescence-Active Novel Poly(4-Cyanotriphenylamine). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6422-6429	15.6	86
191	Highly flexible and optical transparent 6F-PI/TiO <sub>2</sub> optical hybrid films with tunable refractive index and excellent thermal stability. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 531-536		84
190	Novel organosoluble aromatic polyimides bearing pendant methoxy-substituted triphenylamine moieties: Synthesis, electrochromic, and gas separation properties. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7937-7949	2.5	82
189	Highly transparent polyimide hybrids for optoelectronic applications. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 108, 2-30	4.6	81
188	Resistive switching non-volatile and volatile memory behavior of aromatic polyimides with various electron-withdrawing moieties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14085		79
187	Synthesis and properties of organosoluble polyimide/clay hybrids. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 2067-2072	2.9	79
186	Various Digital Memory Behaviors of Functional Aromatic Polyimides Based on Electron Donor and Acceptor Substituted Triphenylamines. <i>Macromolecules</i> , <b>2012</b> , 45, 3749-3758	5.5	72
185	Novel blue and red electrochromic poly(azomethine ether)s based on electroactive triphenylamine moieties. <i>Organic Electronics</i> , <b>2010</b> , 11, 299-310	3.5	72
184	Design and preparation of triphenylamine-based polymeric materials towards emergent optoelectronic applications. <i>Progress in Polymer Science</i> , <b>2019</b> , 89, 250-287	29.6	71
183	Synthesis, luminescence and electrochromism of aromatic poly(amine-imide)s with pendent triphenylamine moieties. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1812		68
182	Novel family of triphenylamine-containing, hole-transporting, amorphous, aromatic polyamides with stable electrochromic properties. <i>Journal of Polymer Science Part A</i> , <b>2005</b> , 43, 2085-2098	2.5	66
181	Flexible electrofluorochromic devices with the highest contrast ratio based on aggregation-enhanced emission (AEE)-active cyanotriphenylamine-based polymers. <i>Chemical Communications</i> , <b>2013</b> , 49, 9797-9	5.8	65
180	Highly transparent and flexible polyimide-AgNW hybrid electrodes with excellent thermal stability for electrochromic applications and defogging devices. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 3629-3635	7.1	64
179	A New Class of High T <sub>g</sub> and Organosoluble Aromatic Poly(amine-imide,3,4-oxadiazole)s Containing Donor and Acceptor Moieties for Blue-Light-Emitting Materials. <i>Macromolecules</i> , <b>2006</b> , 39, 6036-6045	5.5	64
178	Transmissive to black electrochromic aramids with high near-infrared and multicolor electrochromism based on electroactive tetraphenylbenzidine units. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6230		62
177	Preparation and properties of aromatic polyamides from 2,2'-bis(p-aminophenoxy) biphenyl or 2,2'-bis(p-aminophenoxy)-1,1'-binaphthyl and aromatic dicarboxylic acids. <i>Journal of Polymer Science Part A</i> , <b>1993</b> , 31, 2499-2506	2.5	60
176	Solution-processable triarylamine-based high-performance polymers for resistive switching memory devices. <i>Polymer Journal</i> , <b>2016</b> , 48, 117-138	2.7	59
175	A novel molecularly imprinted polymer thin film as biosensor for uric acid. <i>Talanta</i> , <b>2010</b> , 80, 1145-51	6.2	59

- 174 Substituent Effect on Electrochemical and Electrochromic Behaviors of Ambipolar Aromatic Polyimides Based on Aniline Derivatives. *Macromolecules*, **2011**, 44, 9595-9610 5.5 59
- 173 Flexible nanocrystalline-titania/polyimide hybrids with high refractive index and excellent thermal dimensional stability. *Journal of Polymer Science Part A*, **2010**, 48, 1433-1440 2.5 59
- 172 Synthesis and characterization of novel electroactive polyamides and polyimides with bulky 4-(1-adamantoxy)triphenylamine moieties. *Journal of Polymer Science Part A*, **2009**, 47, 1740-1755 2.5 58
- 171 Novel anodic electrochromic aromatic polyamides with multi-stage oxidative coloring based on N,N,N',N'-tetraphenyl-p-phenylenediamine derivatives. *Journal of Materials Chemistry*, **2008**, 18, 5638 58
- 170 Synthesis and properties of new aromatic poly(amine-imide)s derived from N,N'-bis(4-aminophenyl)-N,N'-diphenyl-1,4-phenylenediamine. *Journal of Polymer Science Part A*, **2002**, 40, 3815-3822 2.5 58
- 169 Novel programmable functional polyimides: preparation, mechanism of CT induced memory, and ambipolar electrochromic behavior. *Journal of Materials Chemistry C*, **2013**, 1, 7623 7.1 57
- 168 Synthesis and properties of new organosoluble and alternating aromatic poly(ester-amide-imide)s with pendant phosphorus groups. *Journal of Polymer Science Part A*, **2001**, 39, 1786-1799 2.5 57
- 167 Electroactive aromatic polyamides and polyimides with adamantylphenoxy-substituted triphenylamine units. *European Polymer Journal*, **2009**, 45, 2234-2248 5.2 56
- 166 Synthesis and Electrochemical Properties of Novel Aromatic Poly(amine-imide)s with Anodically Highly Stable Yellow and Blue Electrochromic Behaviors. *Macromolecules*, **2009**, 42, 125-134 5.5 56
- 165 Novel triphenylamine-containing ambipolar polyimides with pendant anthraquinone moiety for polymeric memory device, electrochromic and gas separation applications. *Journal of Materials Chemistry*, **2012**, 22, 20394 55
- 164 Highly stable electrochromic polyamides based on N,N-bis(4-aminophenyl)-N',N'-bis(4-tert-butylphenyl)-1,4-phenylenediamine. *Journal of Polymer Science Part A*, **2009**, 47, 2330-2343 2.5 55
- 163 Highly transparent to truly black electrochromic devices based on an ambipolar system of polyamides and viologen. *NPG Asia Materials*, **2017**, 9, e388-e388 10.3 55
- 162 Novel high-efficiency PL polyimide nanofiber containing aggregation-induced emission (AIE)-active cyanotriphenylamine luminogen. *Chemical Communications*, **2013**, 49, 630-2 5.8 54
- 161 Colorless triphenylamine-based aliphatic thermoset epoxy for multicolored and near-infrared electrochromic applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 3594-9 9.5 53
- 160 Enhanced near-infrared electrochromism in triphenylamine-based aramids bearing phenothiazine redox centers. *Journal of Materials Chemistry*, **2010**, 20, 9886 53
- 159 Novel Anodic Polyelectrochromic Aromatic Polyamides Containing Pendant Dimethyltriphenylamine Moieties. *Macromolecules*, **2008**, 41, 8441-8451 5.5 53
- 158 Nonvolatile transistor memory devices using high dielectric constant polyimide electrets. *Journal of Materials Chemistry C*, **2013**, 1, 3235 7.1 52
- 157 Novel high-performance polymer memory devices containing (OMe)<sub>2</sub>tetraphenyl-p-phenylenediamine moieties. *Journal of Polymer Science Part A*, **2011**, 49, 3709-3718 2.5 52

156	Synthesis and properties of novel poly(amide-imide)s containing pendent diphenylamino groups. <i>European Polymer Journal</i> , <b>2005</b> , 41, 511-517	5.2	52
155	Programmable digital nonvolatile memory behaviors of donor-acceptor polyimides bearing triphenylamine derivatives: effects of substituents. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 1276	4.9	51
154	Synthesis and characterization of electrochromic poly(amide-imide)s based on the diimide-diacid from 4,4'-diamino-4'-methoxytriphenylamine and trimellitic anhydride. <i>European Polymer Journal</i> , <b>2010</b> , 46, 1355-1366	5.2	51
153	Synthesis and evaluation of photoluminescent and electrochemical properties of new aromatic polyamides and polyimides with a kink 1,2-phenylenediamine moiety. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 2587-2603	2.5	51
152	Synthesis, photoluminescence, and electrochromism of polyamides containing (3,6-di-tert-butylcarbazol-9-yl)triphenylamine units. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 4775-4789	2.5	49
151	Synthesis and photoluminescent and electrochromic properties of aromatic poly(amine amide)s bearing pendent N-carbazolyphenyl moieties. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 4108-4121	2.5	49
150	Synthesis and characterization of wholly aromatic poly(azomethine)s containing donor-acceptor triphenylamine moieties. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 4921-4932	2.5	48
149	Electrochemical characterization of small organic hole-transport molecules based on the triphenylamine unit. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 373-377	5.1	48
148	Synthesis and properties of new soluble triphenylamine-based aromatic poly(amine amide)s derived from N,N'-bis(4-carboxyphenyl)-N,N'-diphenyl-1,4-phenylenediamine. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 94-105	2.5	47
147	Triphenylamine-based polyimides with trimethyl substituents for gas separation membrane and electrochromic applications. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 3637-3646	2.5	46
146	Synthesis and properties of soluble aromatic polyimides from 2,2'-bis(3,4-dicarboxyphenoxy)-1,1'-binaphthyl dianhydride and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1998</b> , 36, 1937-1943	2.5	44
145	New polyimides incorporated with diphenylpyrenylamine unit as fluorophore and redox-chromophore. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 2210-2221	2.5	43
144	High-performance electrofluorochromic devices based on aromatic polyamides with AIE-active tetraphenylethene and electro-active triphenylamine moieties. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 4364-4373	4.9	42
143	Electrically bistable memory devices based on poly(triphenylamine)-PCBM hybrids. <i>Chemical Communications</i> , <b>2013</b> , 49, 2804-6	5.8	42
142	Synthesis and electrochromism of novel organosoluble polyarylates bearing triphenylamine moieties. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 2004-2014	2.5	42
141	Novel electrochromic aromatic poly(amine-imide-imide)s with pendent triphenylamine structures. <i>Polymer</i> , <b>2005</b> , 46, 5939-5948	3.9	41
140	Synthesis and properties of new aromatic polyamides with redox-active 2,4-dimethoxytriphenylamine moieties. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 3392-3401	2.5	40
139	A novel porphyrin-containing polyimide for memory devices. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2780-2784	4.9	40

138	Triphenylamine-based luminogens and fluorescent polyimides: effects of functional groups and substituents on photophysical behaviors. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1569-1576	4.9	39
137	High-Efficiency Photoluminescence Wholly Aromatic Triarylamine-based Polyimide Nanofiber with Aggregation-Induced Emission Enhancement. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 668-676	8.1	39
136	Poly(triphenylamine)s derived from oxidative coupling reaction: Substituent effects on the polymerization, electrochemical, and electro-optical properties. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 285-294	2.5	38
135	Preparation and properties of new soluble aromatic polyimides from 2,2'-bis(3,4-dicarboxyphenoxy)biphenyl dianhydride and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1998</b> , 36, 2021-2027	2.5	38
134	Substituent effects on the electrochemical and spectral characteristics of N,N,N',N'-tetraaryl-p-phenylenediamine derivatives. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 578, 283-287	4.1	38
133	Design, Synthesis, and Electrofluorochromism of New Triphenylamine Derivatives with AIE-Active Pendent Groups. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11684-11690	9.5	37
132	Synthesis and properties of new organo-soluble and strictly alternating aromatic poly(ester-imide)s from 3,3-bis[4-(trimellitimidophenoxy)phenyl]phthalide and bisphenols. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1090-1099	2.5	37
131	Electrically bistable digital memory behaviors of thin films of polyimides based on conjugated bis(triphenylamine) derivatives. <i>Polymer</i> , <b>2012</b> , 53, 4135-4144	3.9	36
130	Synthesis and properties of new soluble aromatic polyamides and polyimides on the basis of N,N'-bis(3-aminobenzoyl)-N,N'-diphenyl-1,4-phenylenediamine. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 2564-2574	2.5	36
129	Novel thermally stable and soluble triarylamine functionalized polyimides for gas separation. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 4219	4.9	35
128	Linkage effect on the memory behavior of sulfonyl-containing aromatic polyether, polyester, polyamide, and polyimide. <i>Chemical Communications</i> , <b>2013</b> , 49, 2536-8	5.8	35
127	Preparation and properties of aromatic polyimides from 2,2'-bis(p-aminophenoxy)biphenyl or 2,2'-bis(p-aminophenoxy)-1,1'-binaphthyl and aromatic tetracarboxylic dianhydrides. <i>Journal of Polymer Science Part A</i> , <b>1993</b> , 31, 3273-3279	2.5	34
126	Highly transparent and flexible polyimide/ZrO <sub>2</sub> nanocomposite optical films with a tunable refractive index and Abbe number. <i>Chemical Communications</i> , <b>2015</b> , 51, 13523-6	5.8	33
125	Novel Organic Phototransistor-Based Nonvolatile Memory Integrated with UV-Sensing/Green-Emissive Aggregation Enhanced Emission (AEE)-Active Aromatic Polyamide Electret Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18281-18288	9.5	33
124	Flexible, optically transparent, high refractive, and thermally stable polyimide/TiO <sub>2</sub> hybrids for anti-reflection coating. <i>RSC Advances</i> , <b>2013</b> , 3, 17048	3.7	33
123	Polyterephthalamides with naphthoxy-pendent groups. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 1781-1789	2.3	33
122	Novel Photoinduced Recovery of OFET Memories Based on Ambipolar Polymer Electret for Photorecorder Application. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902991	15.6	32
121	Synthesis and properties of wholly aromatic polymers bearing cardo fluorene moieties. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 4352-4363	2.5	32

120	Synthesis and Properties of Noncoplanar Rigid-rod Aromatic Polyamides Containing Phenyl or Naphthyl Substituents. <i>Journal of Polymer Research</i> , <b>2007</b> , 14, 147-155	2.7	32
119	Synthesis and properties of aromatic poly(ester amide)s with pendant phosphorus groups. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 459-470	2.5	32
118	A novel panchromatic shutter based on an ambipolar electrochromic system without supporting electrolyte. <i>Chemical Communications</i> , <b>2018</b> , 54, 2619-2622	5.8	30
117	Flexible memory devices with tunable electrical bistability via controlled energetics in donor-donor and donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4374-4378	7.1	30
116	Linkage and acceptor effects on diverse memory behavior of triphenylamine-based aromatic polymers. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4162	4.9	30
115	Novel thermally stable triarylamine-containing aromatic polyamides bearing anthrylamine chromophores for highly efficient green-light-emitting materials. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7354-7368	2.5	30
114	Substituent and Charge Transfer Effects on Memory Behavior of the Ambipolar Poly(triphenylamine)s. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15988-94	9.5	29
113	Fluorescent and electrochromic aromatic polyamides with 4-tert-butyltriphenylamine chromophore. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 2798-2809	2.5	29
112	A novel class of organosoluble and light-colored fluorinated polyamides derived from 2,2'-bis(4-amino-2-trifluoromethylphenoxy)biphenyl or 2,2'-bis(4-amino-2-trifluoromethylphenoxy)-1,1'-binaphthyl. <i>European Polymer Journal</i> , <b>2004</b> , 40, 1081-1094	5.2	29
111	Novel thermally stable poly(amine hydrazide)s and poly(amine-1,3,4-oxadiazole)s for luminescent and electrochromic materials. <i>Journal of Polymer Science Part A</i> , <b>2005</b> , 43, 3245-3256	2.5	29
110	A comparative study of redox-active, ambipolar electrochromic triphenylamine-based polyimides prepared by electrochemical polymerization and conventional polycondensation methods. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 236-248	4.9	29
109	Donor-Acceptor Effect of Carbazole-Based Conjugated Polymer Electrets on Photoresponsive Flash Organic Field-Effect Transistor Memories. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6144-6150	9.5	28
108	Multilevel nonvolatile flexible organic field-effect transistor memories employing polyimide electrets with different charge-transfer effects. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1039-45	4.8	28
107	A facile approach towards optically isotropic, colorless, and thermoplastic polyimidothioethers with high refractive index. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4080		28
106	Red, green, and blue electrochromism in ambipolar poly(amine-imide-imide)s based on electroactive tetraphenyl-p-phenylenediamine units. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 4747-4757	2.5	28
105	Synthesis and photophysical properties of novel organo-soluble polyarylates bearing triphenylamine moieties. <i>Journal of Polymer Research</i> , <b>2007</b> , 14, 191-199	2.7	28
104	Poly(amine-amide-imide)s Bearing Pendent N-Carbazolylphenyl Moieties: Synthesis and Electrochromic Properties. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 1589-1598	2.6	28
103	Novel, organosoluble, light-colored fluorinated polyimides based on 2,2'-bis(4-amino-2-trifluoromethylphenoxy)biphenyl or 2,2'-bis(4-amino-2-trifluoromethylphenoxy)-1,1'-binaphthyl. <i>Journal of Polymer Science Part A</i> , <b>2004</b> , 42, 2114-2121	2.5	28

102	Preparation and optoelectronic behaviours of novel electrochromic devices based on triphenylamine-containing ambipolar materials. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9370-9375	7.1	27
101	Synthesis and characterization of electroactive hyperbranched aromatic polyamides based on A2B-type triphenylamine moieties. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7666		27
100	Stably anodic green electrochromic aromatic poly(amine-imide-imide)s: Synthesis and electrochromic properties. <i>Organic Electronics</i> , <b>2007</b> , 8, 662-672	3.5	27
99	Synthesis and photoluminescence properties of novel polyarylates bearing pendent naphthylamine chromophores. <i>European Polymer Journal</i> , <b>2008</b> , 44, 2608-2618	5.2	27
98	Substituent effects of AIE-active cyanostilbene-containing triphenylamine derivatives on electrofluorochromic behavior. <i>Nanoscale</i> , <b>2019</b> , 11, 8597-8603	7.7	26
97	Preparation and characterization of near-infrared and multi-colored electrochromic aramids based on aniline-derivatives. <i>Organic Electronics</i> , <b>2012</b> , 13, 840-849	3.5	26
96	Novel solution-processable fluorene-based polyimide/TiO <sub>2</sub> hybrids with tunable memory properties. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4570	4.9	26
95	A facile approach to multicolored electrochromic triarylamine-based thermoset epoxy materials with tunable intervalence charge transfer behavior. <i>Chemical Communications</i> , <b>2013</b> , 49, 9812-4	5.8	26
94	Thermal degradation behaviour of aromatic poly(ester-amide) with pendant phosphorus groups investigated by pyrolysis-GC/MS. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 21-30	4.7	26
93	Novel near-infrared and multi-colored electrochromic polybenzoxazines with electroactive triarylamine moieties. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 7796	7.1	25
92	Mixed-valence class I transition and electrochemistry of bis(triphenylamine)-based aramids containing isolated ether-linkage. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 3805-3816	2.5	25
91	Electrochromism and Nonvolatile Memory Device Derived from Triphenylamine-Based Polyimides with Pendant Viologen Units. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1600715	4.8	24
90	Synthesis and Characterization of Novel Triarylamine Derivatives with Dimethylamino Substituents for Application in Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14902-14908	8.5	24
89	Synthesis and unexpected electrochemical behavior of the triphenylamine-based aramids with ortho- and para-trimethyl-protective substituents. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5271-5287	7.5	24
88	Synthesis and Electrochromism of Highly Organosoluble Polyamides and Polyimides with Bulky Trityl-Substituted Triphenylamine Units. <i>Polymers</i> , <b>2017</b> , 9,	4.5	23
87	4-methoxy-substituted poly(triphenylamine): A p-type polymer with highly photoluminescent and reversible oxidative electrochromic characteristics. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 3292-3302	2.5	23
86	Synthesis, photoluminescence, and electrochromic properties of wholly aromatic polyamides bearing naphthylamine chromophores. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 6094-6102	2.5	23
85	A New Class of Aromatic Poly(1,3,4-oxadiazole)s and Poly(amide-1,3,4-oxadiazole)s Containing (Naphthalenedioxy)diphenylene Groups. <i>Polymer Journal</i> , <b>2002</b> , 34, 917-924	2.7	23



84	Highly transparent and flexible bio-based polyimide/TiO <sub>2</sub> and ZrO <sub>2</sub> hybrid films with tunable refractive index, Abbe number, and memory properties. <i>Nanoscale</i> , <b>2016</b> , 8, 12793-802	7.7	22
83	Electrically programmable digital memory behaviors based on novel functional aromatic polyimide/TiO <sub>2</sub> hybrids with a high ON/OFF ratio. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2842-2850	7.1	22
82	High T <sub>g</sub> , ambipolar, and near-infrared electrochromic anthraquinone-based aramids with intervalence charge-transfer behavior. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 61-69	2.5	22
81	New P-type of poly(4-methoxy-triphenylamine)s derived by coupling reactions: Synthesis, electrochromic behaviors, and hole mobility. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 4037-4050	2.5	22
80	Electrochromic properties of novel strictly alternating poly(amine-imide-imide)s with electroactive triphenylamine moieties. <i>European Polymer Journal</i> , <b>2006</b> , 42, 1533-1540	5.2	22
79	Nonvolatile transistor memory devices based on high-k electrets of polyimide/TiO <sub>2</sub> hybrids. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 6718-6727	4.9	21
78	Blue-light-emitting and anodically electrochromic materials of new wholly aromatic polyamides derived from the high-efficiency chromophore 4,4'-dicarboxy-4'-methyltriphenylamine. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 4095-4107	2.5	21
77	High-efficiency fluorescent polyimides based on locally excited triarylamine-containing dianhydride moieties. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 5225-5232	4.9	20
76	Linkage and donor-acceptor effects on resistive switching memory devices of 4-(N-carbazolyl)triphenylamine-based polymers. <i>RSC Advances</i> , <b>2016</b> , 6, 28815-28819	3.7	20
75	Preparation and properties of aromatic polyamides from 2,2'-bis(p-carboxyphenoxy) biphenyl or 2,2'-bis(p-carboxyphenoxy)-1,1'-binaphthyl and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1993</b> , 31, 3265-3272	2.5	20
74	Synthesis and characterization of novel electrochromic devices derived from redox-active polyamide-TiO <sub>2</sub> hybrids. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12422-12428	7.1	20
73	Novel triarylamine-based polybenzoxazines with a donor-acceptor system for polymeric memory devices. <i>Chemical Communications</i> , <b>2014</b> , 50, 13917-20	5.8	19
72	Synthesis and characterization of a novel electrochromic aromatic polyamide from AB-type triphenylamine-based monomer. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 1988-2001	2.5	19
71	Synthesis and Properties of Novel Poly(amide-imide)s Derived from 2,4-diaminotriphenylamine and Imide Ring-Preformed Dicarboxylic Acids. <i>Journal of Polymer Research</i> , <b>2005</b> , 12, 289-294	2.7	19
70	Cyanotriphenylamine-based polyimidothioethers as multifunctional materials for ambipolar electrochromic and electrofluoro-chromic devices, and fluorescent electrospun fibers. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 1693-1700	4.9	18
69	UV-sensing organic phototransistor memory devices with a doped organic polymer electret composed of triphenylamine-based aggregation-induced emission luminogens. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11014-11021	7.1	18
68	Thermally stable and high ON/OFF ratio non-volatile memory devices based on poly(triphenylamine) with pendent PCBM. <i>Chemical Communications</i> , <b>2014</b> , 50, 4335-7	5.8	18
67	Side-chain and linkage-mediated effects of anthraquinone moieties on ambipolar poly(triphenylamine)-based volatile polymeric memory devices. <i>Chemical Communications</i> , <b>2014</b> , 50, 4915-7	5.8	18

66	Electrochemical and Spectral Characterizations of 9-Phenylcarbazoles. <i>Journal of the Chinese Chemical Society</i> , <b>2012</b> , 59, 331-337	1.5	18
65	Preparation and characterization of organosoluble polyimide/BaTiO <sub>3</sub> composite films with mechanical- and chemical-treated ceramic fillers. <i>Polymer Journal</i> , <b>2012</b> , 44, 1131-1137	2.7	18
64	Synthesis and Photoluminescence of Novel Organo-Soluble Polyarylates Bearing (N-Carbazolyl)triphenylamine Moieties. <i>Polymer Journal</i> , <b>2007</b> , 39, 448-457	2.7	18
63	New soluble triphenylamine-based amorphous aromatic polyamides for high performance blue-emitting hole-transporting and anodically electrochromic materials. <i>Polymer</i> , <b>2006</b> , 47, 7013-7020	3.9	18
62	Highly transparent polyhydroxyimide/TiO <sub>2</sub> and ZrO <sub>2</sub> hybrid films with high glass transition temperature (T <sub>g</sub> ) and low coefficient of thermal expansion (CTE) for optoelectronic application. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8444-8453	7.1	17
61	Novel solution-processable optically isotropic colorless polyimidothioethers/TiO <sub>2</sub> hybrids with tunable refractive index. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17236		17
60	Synthesis and properties of new polyarylates from 1,4-bis(4-carboxyphenoxy)naphthyl or 2,6-bis(4-carboxyphenoxy)naphthyl and various bisphenols. <i>Journal of Polymer Science Part A</i> , <b>1999</b> , 37, 645-652	2.5	17
59	A facile approach to prepare porous polyamide films with enhanced electrochromic performance. <i>Nanoscale</i> , <b>2018</b> , 10, 16613-16620	7.7	16
58	Controllable Electrochromic Polyamide Film and Device Produced by Facile Ultrasonic Spray-coating. <i>Scientific Reports</i> , <b>2017</b> , 7, 11982	4.9	16
57	Poly(triarylamine): Its synthesis, properties, and blend with polyfluorene for white-light electroluminescence. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 1727-1736	2.5	16
56	Synthesis, characterization and electrochromic properties of novel redox triarylamine-based aromatic polyethers with methoxy protecting groups. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 345-350	4.9	15
55	Linkage effects of triphenylamine-based aromatic polymer electrets on electrical memory performance. <i>Polymer</i> , <b>2018</b> , 148, 382-389	3.9	15
54	Synthesis, photoluminescence, and electrochromism of novel aromatic poly(amine-1,3,4-oxadiazole)s bearing anthrylamine chromophores. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 1584-1594	2.5	15
53	Thermally stable, light-emitting, triphenylamine-containing poly(amine hydrazide)s and poly(amine-1,3,4-oxadiazole)s bearing pendent carbazolyl groups. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 48-58	2.5	15
52	Preparation and properties of aromatic polyimides from 2,2'-bibenzoic acid and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1991</b> , 29, 995-1000	2.5	15
51	Novel Stretchable Ambipolar Electrochromic Devices Based on Highly Transparent AgNW/PDMS Hybrid Electrodes. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900632	8.1	14
50	Near-infrared electrochromic poly(aryl ether)s based on isolated electroactive tetraphenyl-p-phenylenediamine moieties. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 5378-5385	2.5	14
49	Synthesis and properties of poly(ether imide)s derived from 2,6-bis(3,4-dicarboxyphenoxy)naphthalene dianhydride and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1998</b> , 36, 1657-1665	2.5	14

48	Unexpected Discovery of the Formation of High-Molecular-Weight Aromatic Polyamides from Unstoichiometric Diacyl Chloride/Diamine Components. <i>High Performance Polymers</i> , <b>2001</b> , 13, S137-S151 <sup>1.6</sup>	1.6	14
47	Synthesis and optical properties of redox-active triphenylamine-based derivatives with methoxy protecting groups. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 13345-13351	7.1	13
46	High performance polymers and their PCBM hybrids for memory device application. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 7464-7469	4.9	12
45	Novel aromatic polymers from benzaldehyde and triphenylamine derivatives: Synthesis, electrochromic, and photochemical properties. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 2118-2131	2.5	12
44	Preparation and properties of new soluble aromatic polyamides from 2,2'-bis(4-aminophenyl)biphenyl and aromatic dicarboxylic acids. <i>Journal of Polymer Science Part A</i> , <b>1998</b> , 36, 2029-2035	2.5	12
43	New organo-soluble aromatic polyimides based on 3,3',5,5'-tetrabromo-2,2'-bis[4-(3,4-dicarboxyphenoxy)phenyl]propane dianhydride and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1999</b> , 37, 1673-1680	2.5	12
42	New rigid-rod poly(benzoxazole-imide)s containing chloro-substituted p-phenylene units in the main chain. <i>Journal of Polymer Science Part A</i> , <b>1999</b> , 37, 4151-4158	2.5	12
41	Highly transparent silver nanowire/polyimide electrode as a snow-cleaning device. <i>RSC Advances</i> , <b>2016</b> , 6, 61386-61392	3.7	11
40	Synthesis and properties of noncoplanar rigid-rod aromatic polyhydrazides and poly(1,3,4-oxadiazole)s containing phenyl or naphthyl substituents. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 6466-6483	2.5	11
39	Synthesis, photoluminescent and electrochromic properties of new aromatic poly(amine-hydrazide)s and poly(amine-1,3,4-oxadiazole)s derived from 4,4'-dicarboxy-4'-methyltriphenylamine. <i>European Polymer Journal</i> , <b>2006</b> , 42, 2283-2291	5.2	11
38	Synthesis and characterization of new poly(amide-imide)s based on 1,4-bis(trimellitimido)-2,5-dichlorobenzene. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 73, 271-278	2.9	11
37	Preparation and properties of polyarylates both from 2,2'-bibenzoyl chloride and bisphenols and from biphenyl-2,2'-diol and aromatic dicarboxylic acid chlorides. <i>Journal of Polymer Science Part A</i> , <b>1992</b> , 30, 2195-2201	2.5	11
36	The steric effect of $\beta$ -substituted anthraquinone units on high performance polymeric memory devices. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 7758-7763	4.9	10
35	Zinc and linkage effects of novel porphyrin-containing polyimides on resistor memory behaviors. <i>RSC Advances</i> , <b>2016</b> , 6, 88531-88537	3.7	10
34	Electrical performance of the embedded-type surface electrodes containing carbon and silver nanowires as fillers and one-step organosoluble polyimide as a matrix. <i>Organic Electronics</i> , <b>2012</b> , 13, 2469-2473 <sup>10</sup>	3.5	10
33	New rigid-rod and strictly alternating poly(benzoxazole-imide)s containing methyl-substituted p-phenylene units in the main chain. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 1141-1147	2.6	10
32	Synthesis and properties of new poly(amide-imide)s based on 2,5-bis(trimellitimido)toluene. <i>Polymer Bulletin</i> , <b>1999</b> , 42, 1-8	2.4	10
31	Synthesis and characterization of new organo-soluble poly(amide-imide)s based on 1,4-bis(trimellitimido)-2,5-dimethylbenzene. <i>Polymer Bulletin</i> , <b>1999</b> , 43, 21-28	2.4	10

30	Novel triarylamine-based aromatic polyamides bearing secondary amines: synthesis and redox potential inversion characteristics induced by pyridines. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10381-10385 <sup>9</sup>		
29	Electrochemical and electrochromic properties of novel aromatic poly(amine-imide)s derived from N,N'-bis(4-carboxyphenyl)-N,N'-diphenyl-1,4-phenylenediamine. <i>European Polymer Journal</i> , <b>2006</b> , 42, 1051-1058	5.2	9
28	Observation of ionic hydrogen bonding between anions and triarylamine-based aromatic polyimides with secondary amine. <i>Electrochimica Acta</i> , <b>2018</b> , 261, 307-313	6.7	8
27	Preparation and properties of aromatic polyamides from 1,4-bis(p-carboxyphenoxy)naphthyl and aromatic diamines. <i>Journal of Polymer Science Part A</i> , <b>1997</b> , 35, 2273-2280	2.5	8
26	Facile Approach of Porous Electrochromic Polyamide/ZrO Films for Enhancing Redox Switching Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35273-35281	9.5	8
25	Novel Authentic and Ultrafast Organic Photorecorders Enhanced by AIE-Active Polymer Electrets via Interlayer Charge Recombination. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101288	15.6	8
24	Novel solution-processable functional polyimide/ZrO <sub>2</sub> hybrids with tunable digital memory behaviors. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 4873-4880	4.9	8
23	Optically Isotropic, Colorless, and Flexible PITEs/TiO and ZrO Hybrid Films with Tunable Refractive Index, Abbe Number, and Memory Properties. <i>Scientific Reports</i> , <b>2017</b> , 7, 7978	4.9	7
22	Electrochemical behavior of N,N,N',N'-tetraphenyl-1,4-phenylenediamine moiety on novel aromatic polyamides and their electrochromic properties. <i>Dyes and Pigments</i> , <b>2007</b> , 74, 273-278	4.6	7
21	An EQCM study for a novel aromatic poly(amine-imide) electrochromic thin film. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 146-153	6.4	7
20	Synthesis and properties of new poly(amide-imide)s based on 2,5-bis(trimellitimido)chlorobenzene. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 71, 1691-1701	2.9	7
19	Luminescence Behavior and Acceptor Effects of Ambipolar Polymeric Electret on Photorecoverable Organic Field-Effect Transistor Memory. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001076	6.4	7
18	Synthesis and properties of poly(amide imide)s based on 2,2'- or 4,4'-bis(4-aminophenoxy)biphenyl and various bis(trimellitimide)s. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 86, 2763-2774	2.9	6
17	A Novel Class of Organosoluble and Strictly Alternating Poly(amine-amide-imide)s Containing Triphenylamine Units in the Main Chain. <i>Polymer Journal</i> , <b>2003</b> , 35, 402-406	2.7	6
16	Synthesis of high-performance electrochromic material for facile fabrication of truly black electrochromic devices. <i>Electrochimica Acta</i> , <b>2021</b> , 367, 137474	6.7	6
15	Effects of alkyl chain length and anion on the optical and electrochemical properties of AIE-active Ecyanostilbene-containing triphenylamine derivatives. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7454-7462 <sup>71</sup>		5
14	Electrochromic Response Capability Enhancement with Pentiptycene-Incorporated Intrinsic Porous Polyamide Films. <i>Macromolecular Rapid Communications</i> , <b>2020</b> , 41, e2000186	4.8	4
13	Novel electrochemical devices with high contrast ratios and simultaneous electrochromic and electrofluorochromic response capability behaviours. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12656-12661 <sup>71</sup>		4

12	Synthesis and characteristics of novel TPA-containing electrochromic poly(ether sulfone)s with dimethylamino substituents. <i>Electrochimica Acta</i> , <b>2021</b> , 368, 137552	6.7	4
11	Preparation and Characterization of Intrinsic Porous Polyamides Based on Redox-Active Aromatic Diamines with Pentiptycene Scaffolds.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1210-1215	6.6	4
10	Fluorescence: High-Performance Electrofluorochromic Devices Based on Electrochromism and Photoluminescence-Active Novel Poly(4-Cyanotriphenylamine) (Adv. Funct. Mater. 41/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6406-6406	15.6	3
9	Facile Fabrication of Triphenylamine-Based Redox-Active Nanocomposites by a Sol-Gel Method: Enhanced Electrochromic Response Capability and Stability Performance. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1900118	4.8	2
8	Synthesis and characterization of new rigid-rod and organosoluble poly(amide/imide)s based on 1,4-bis(trimellitimidido)-2,3,5,6-tetramethylbenzene. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 78, 1162-1178	2.8	2
7	Electroactive Triphenylamine-Based Polymer Films as Passivation Layers for Improving Electrochemical Oxidation Stability of Silver Nanowires. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 2971-2978	4.3	2
6	Preparation and Properties of New Polyarylates from 2,2'-Bis(p-carboxyphenoxy)biphenyl or 2,2'-Bis(p-carboxyphenoxy)-1,1'-binaphthyl and Various Bisphenols. <i>Polymer Journal</i> , <b>1994</b> , 26, 722-727	2.7	1
5	Preparation and characterization of aromatic polyamides from 4,4'-(2,6-naphthylenedioxy)dibenzoic acid and aromatic diamines. <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 2321-2328	2.6	
4	Synthesis and Properties of New Aromatic Polyamides and Polyimides based on 1,4-Bis[N-(4-aminobenzoyl)-N-phenyl]phenylenediamine. <i>High Performance Polymers</i> , <b>2004</b> , 16, 525-541	1.6	
3	Enhancement of Electrochromic Switching Properties with Tröger's Base-Derived Intrinsic Microporous Polyamide Films. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100492	4.8	
2	Triarylamine-Based Wholly Aromatic Polyimide with Simultaneously Unprecedented Photoluminescence Efficiency and High Glass-Transition Temperature. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101949	8.1	
1	Electrofluorochromism in AIE luminogens <b>2022</b> , 397-425		