Yu-Tai Tao

List of Publications by Year in Descending Order

174 papers	15,318 citations	57 h-index	122 g-index
182 ext. papers	15,980 ext. citations	7.4 avg, IF	6.18 L-index

#	Paper	IF	Citations
174	Photochromic Dithienylethene Monolayer-Modified Gold Nanoparticles as a Tunable Floating Gate in the Fabrication of Nonvolatile Organic Memory.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	1
173	High-performance perovskite solar cells based on dopant-free hole-transporting material fabricated by a thermal-assisted blade-coating method with efficiency exceeding 21%. *Chemical Engineering Journal*, **2022**, 427, 131609	14.7	9
172	Solvent Polarity-Modulated Molecular Alignment of Linear Diacetylenic Acid Films by Solution Shearing. *ACS Applied Polymer Materials*, **2022**, 4, 1903-1910	4.3	2
171	High-Efficiency and scalable Solution-Sheared perovskite solar cells using green solvents. *Chemical Engineering Journal*, **2022**, 437, 135477	14.7	1
170	Low-Cost Hole-Transporting Materials Based on Carbohelicene for High-Performance Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 20051-20059	9.5	1
169	Toward Large-Area and Fully Solution-Sheared Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 25926-25936	9.5	4
168	One-step Annulation/Chlorination towards Chlorinated Diphenanthro, Dibenzophenanthro, and Dichrysenothiophens. *Asian Journal of Organic Chemistry*, **2021**, 10, 2251-2261	3	2
167	Solution-Processed Perovskite/Perovskite Heterostructure Via a Grafting-Assisted Transfer Technique. *ACS Applied Energy Materials*, **2021**, 4, 1962-1971	6.1	4
166	Coronenes, Benzocoronenes and Beyond: Modern Aspects of Their Syntheses, Properties, and Applications. *Chemistry - an Asian Journal*, **2021**, 16, 621-647	4.5	6
165	Tailoring Photophysical Properties of Diketopyrrolopyrrole Small Molecules with Electron-Withdrawing Moieties for Efficient Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2021**, 13, 38365-38374	9.5	1
164	Modulation of work function of ITO by self-assembled monolayer and its effect on device characteristics of inverted perovskite solar cells. *Organic Electronics*, **2021**, 98, 106297	3.5	2
163	Alignment and Photopolymerization of Hexa--hexabenzocoronene Derivatives Carrying Diacetylenic Side Chains for Charge-Transporting Application. *Journal of the American Chemical Society*, **2020**, 142, 11763-11771	16.4	5
162	Accessing □expanded heterocyclics beyond dibenzothiophene: Syntheses and properties of phenanthrothiophenes. *Journal of the Chinese Chemical Society*, **2020**, 67, 437-445	1.5	3
161	Polymerization of Columnar Mesogens Tethered with Diacetylenic Side Chains. *ACS Applied Polymer Materials*, **2020**, 2, 248-255	4.3	6
160	Surface modification of TiO2 layer with phosphonic acid monolayer in perovskite solar cells: Effect of chain length and terminal functional group. *Organic Electronics*, **2020**, 78, 105583	3.5	14
159	n-Type Thin-Film Transistors Based on Diketopyrrolopyrrole Derivatives: Role of Siloxane Side Chains and Electron-Withdrawing Substituents. *ACS Applied Materials & Interfaces*, **2020**, 12, 1169-1178	9.5	7
158	Synergy of Ionic and Dipolar Effects by Molecular Design for pH Sensing beyond the Nernstian Limit. *Advanced Science*, **2020**, 7, 1901001	13.6	4

157	Bis(diphenylamine)-Tethered Carbazolyl Anthracene Derivatives as Hole-Transporting Materials for Stable and High-Performance Perovskite Solar Cells. *ACS Applied Energy Materials*, **2020**, 3, 10752-10764	6.1	3
156	Self-Assembly Behavior of Diacetylenic Acid Molecules upon Vapor Deposition: Odd-Even Effect on the Film Morphology. *Chemistry - A European Journal*, **2020**, 26, 13948-13956	4.8	3
155	Thiophene-Fused Butterfly-Shaped Polycyclic Arenes with a Diphenanthro[9,10-:9Ş10Ş]thiophene Core for Highly Efficient and Stable Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 50495-50504	9.5	3
154	Donor□Acceptor□Donor Type Cyclopenta[2,1-b;3,4-b?]dithiophene Derivatives as a New Class of Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 7070-7082	6.1	20
153	Polysubstituted Hexa-cata-hexabenzocoronenes: Syntheses, Characterization, and Their Potential as Semiconducting Materials in Transistor Applications. *Journal of Organic Chemistry*, **2019**, 84, 8562-8570	4.2	9
152	Molecularly Aligned Hexa- peri-hexabenzocoronene Films by Brush-Coating and Their Application in Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 10801-10809	9.5	15
151	Benzophenanthrothiophenes: Syntheses, Crystal Structures, and Properties. *Journal of Organic Chemistry*, **2019**, 84, 10990-10998	4.2	6
150	Aligning poly[1,6-di-(N-carbazolyl)-2,4-hexadiyne] crystalline fibers as conducting channels for transistor applications. *Journal of the Chinese Chemical Society*, **2019**, 66, 1227-1235	1.5	1
149	Compact TiO films with sandwiched Ag nanoparticles as electron-collecting layer in planar type perovskite solar cells: improvement in efficiency and stability.. *RSC Advances*, **2018**, 8, 7847-7854	3.7	15
148	Contorted Naphtho- and Fluorenocoronenes: Syntheses and Properties of Polycyclic Aromatics beyond Benzo- and Thiophenocoronenes. *Organic Letters*, **2018**, 20, 2320-2323	6.2	16
147	Room-temperature-operated organic-based acetone gas sensor for breath analysis. *Sensors and Actuators B: Chemical*, **2018**, 260, 593-600	8.5	43
146	Nonlinear Polyfused Aromatics with Extended □Conjugation from Phenanthrotriphenylene, Tetracene, and Pentacene: Syntheses, Crystal Packings, and Properties. *Journal of Organic Chemistry*, **2018**, 83, 11614-11622	4.2	8
145	New Helicene-Type Hole-Transporting Molecules for High-Performance and Durable Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 41439-41449	9.5	28
144	Photodegradation of organic dyes and industrial wastewater in the presence of layer-type perovskite materials under visible light irradiation. *Journal of Environmental Chemical Engineering*, **2018**, 6, 4504-4513	6.8	17
143	Contorted tetrabenzoacenes of varied conjugation: charge transport study with single-crystal field-effect transistors. *Journal of Materials Chemistry C*, **2017**, 5, 7935-7943	7.1	14
142	Synthesis and Characterization of Contorted Pentabenzo-Fused Coronenes as Semiconducting Materials. *Journal of Organic Chemistry*, **2017**, 82, 8067-8071	4.2	13
141	Effect of Bending on the Electrical Characteristics of Flexible Organic Single Crystal-based Field-effect Transistors. *Journal of Visualized Experiments*, **2016**,	1.6	1
140	Unsymmetrically Extended Polyfused Aromatics Embedding Coronene and Perylene Frameworks: Syntheses and Properties. *Organic Letters*, **2016**, 18, 200-3	6.2	17

139	Synthesis and Characterization of Polysubstituted Dibenzopyrenes as Charge-Transporting Materials. *Organic Letters*, **2016**, 18, 4876-4879	6.2	7
138	New photocatalyst for allylic aliphatic C□H bond activation and degradation of organic pollutants: Schiff base Ti(IV) complexes. *RSC Advances*, **2015**, 5, 58504-58513	3.7	10
137	Organic transistor memory with a charge storage molecular double-floating-gate monolayer. *ACS Applied Materials & Interfaces*, **2015**, 7, 9767-75	9.5	35
136	Synthesis of planar dibenzo[de,op]bistetracene derivatives for organic field-effect transistor applications: substituent effect on crystal packing and charge transport property. *Journal of Materials Chemistry C*, **2015**, 3, 7583-7588	7.1	14
135	Synthesis of Polyarylated Carbazoles: Discovery toward Soluble Phenanthro- and Tetraceno-Fused Carbazole Derivatives. *Journal of Organic Chemistry*, **2015**, 80, 5066-76	4.2	19
134	Crystallization of rubrene on a nanopillar-templated surface by the melt-recrystallization process and its application in field-effect transistors. *Chemical Communications*, **2015**, 51, 603-6	5.8	6
133	Electrical Memory Materials and Devices. *RSC Polymer Chemistry Series*, **2015**,	1.3	5
132	Substituent effect on the crystal packing and electronic coupling of tetrabenzocoronenes: a structure□property correlation. *Journal of Materials Chemistry C*, **2014**, 2, 3928	7.1	18
131	Asymmetric fused thiophenes for field-effect transistors: crystal structure□film microstructure□transistor performance correlations. *Journal of Materials Chemistry C*, **2014**, 2, 8892-8902	7.1	36
130	Effect of ITO surface modification on the OLED device lifetime. *Langmuir*, **2014**, 30, 7369-76	4	38
129	Synthesis and characterization of the conjugated polymers tethered with dipolar side chains containing a benzothiadiazole entity for bulk heterojunction solar cells. *Organic Electronics*, **2013**, 14, 2290-2298	3.5	13
128	Azobenzene-functionalized gold nanoparticles as hybrid double-floating-gate in pentacene thin-film transistors/memories with enhanced response, retention, and memory windows. *ACS Applied Materials & Interfaces*, **2013**, 5, 9528-36	9.5	31
127	Tuning electric bistability in pentacene film-based transistor embedding aluminum nanoparticles. *Organic Electronics*, **2012**, 13, 1436-1442	3.5	20
126	Approaching charge balance in organic light-emitting diodes by tuning charge injection barriers with mixed monolayers. *Langmuir*, **2012**, 28, 424-30	4	30
125	Contorted Tetrabenzocoronene Derivatives for Single Crystal Field Effect Transistors: Correlation between Packing and Mobility. *Chemistry of Materials*, **2012**, 24, 2566-2571	9.6	66
124	Electric bistability induced by incorporating self-assembled monolayers/aggregated clusters of azobenzene derivatives in pentacene-based thin-film transistors. *ACS Applied Materials & Interfaces*, **2012**, 4, 5483-91	9.5	38
123	Organic Thin Film Transistors Based on 2,3-Dimethylpentacene and 2,3-Dimethyltetracene. *Journal of the Chinese Chemical Society*, **2012**, 59, 1504-1511	1.5	
122	Mechanistic Investigation of Improved Syntheses of Iridium(III)-Based OLED Phosphors. *Organometallics*, **2012**, 31, 4349-4355	3.8	33

121	Dynamic character of charge transport parameters in disordered organic semiconductor field-effect transistors. *Physical Chemistry Chemical Physics*, **2012**, 14, 14142-51	3.6	40
120	Self-assembled Azobenzenethiol Monolayer on Electrode Surfaces: Effect of Photo-switching on the Surface and Electrical Property. *Journal of the Chinese Chemical Society*, **2012**, 59, 9-17	1.5	8
119	The synthesis, crystal structure and charge-transport properties of hexacene. *Nature Chemistry*, **2012**, 4, 574-8	17.6	285
118	Molecular modification on dye-sensitized solar cells by phosphonate self-assembled monolayers. *Journal of Materials Chemistry*, **2012**, 22, 2915-2921		24
117	High output current in vertical polymer space-charge-limited transistor induced by self-assembled monolayer. *Applied Physics Letters*, **2012**, 101, 093307	3.4	25
116	Stamped Self-Assembled Monolayers on Electrode for Connecting Organic Light-Emitting Diode and Organic Photovoltaic Device. *Journal of Display Technology*, **2011**, 7, 229-234		4
115	High performance single-crystal field-effect transistors based on twisted polyaromatic semiconductor pyreno[4,5-a]coronene. *Chemical Communications*, **2011**, 47, 2008-10	5.8	19
114	High mobility n-channel single-crystal field-effect transistors based on 5,7,12,14-tetrachloro-6,13-diazapentacene. *Chemical Communications*, **2011**, 47, 6356-8	5.8	63
113	Effect of interfacial structure on the transistor properties: probing the role of surface modification of gate dielectrics with self-assembled monolayer using organic single-crystal field-effect transistors. *ACS Applied Materials & Interfaces*, **2011**, 3, 2136-41	9.5	17
112	Concomitant tuning of metal work function and wetting property with mixed self-assembled monolayers. *Organic Electronics*, **2011**, 12, 148-153	3.5	31
111	Odd–even modulation of electrode work function with self-assembled layer: Interplay of energy barrier and tunneling distance on charge injection in organic light-emitting diodes. *Organic Electronics*, **2011**, 12, 602-608	3.5	13
110	High-performance space-charge-limited transistors with well-ordered nanoporous aluminum base electrode. *Applied Physics Letters*, **2011**, 99, 093306	3.4	18
109	Improvement in device performance from a mixture of a liquid crystal and photosensitive acrylic prepolymer with the photoinduced vertical alignment method. *Science and Technology of Advanced Materials*, **2011**, 12, 065002	7.1	1
108	Organic field-effect transistor/memory devices with pentacene/polydiacetylene composite film as active channel material: a morphology dependence study. *ACS Applied Materials & Interfaces*, **2010**, 2, 3231-40	9.5	23
107	Diazapentacene derivatives as thin-film transistor materials: morphology control in realizing high-field-effect mobility. *ACS Applied Materials & Interfaces*, **2009**, 1, 2071-9	9.5	60
106	Continuous modulation of electrode work function with mixed self-assembled monolayers and its effect in charge injection. *Langmuir*, **2009**, 25, 6232-8	4	81
105	Electric bistability in pentacene film-based transistor embedding gold nanoparticles. *Journal of the American Chemical Society*, **2009**, 131, 12441-50	16.4	72
104	Orientation-dependent conductance study of pentacene nanocrystals by conductive atomic force microscopy. *Applied Physics Letters*, **2008**, 93, 053304	3.4	15

103	Oriented growth of rubrene thin films on aligned pentacene buffer layer and its anisotropic thin-film transistor characteristics. *Organic Electronics*, **2008**, 9, 385-395	3.5	35
102	Synthesis and Characterization of Anthra[2,3-b]thiophene and Tetraceno[2,3-b]thiophenes for Organic Field-Effect Transistor Applications. *Chemistry of Materials*, **2007**, 19, 3018-3026	9.6	95
101	Tuning of metal work function with organic carboxylates and its application in top-emitting electroluminescent devices. *Langmuir*, **2007**, 23, 7090-5	4	11
100	Oriented growth of crystalline pentacene films with preferred a-b in-plane alignment on a rubbed crystalline polymethylene surface. *Langmuir*, **2007**, 23, 12901-9	4	12
99	Study of anode work function modified by self-assembled monolayers on pentacene/fullerene organic solar cells. *Applied Physics Letters*, **2007**, 91, 233510	3.4	41
98	Tuning hole injection and charge recombination with self-assembled monolayer on silver anode in top-emitting organic light-emitting diodes. *Applied Physics Letters*, **2007**, 90, 241104	3.4	17
97	Anisotropic field-effect mobility of pentacene thin-film transistor: Effect of rubbed self-assembled monolayer. *Applied Physics Letters*, **2006**, 89, 172103	3.4	57
96	Highly efficient top-emitting organic light-emitting diodes with self-assembed monolayer-modified Ag as anodes. *Applied Physics Letters*, **2006**, 89, 203106	3.4	16
95	Novel Self-Assembled Metallo-Homopolymers and Metallo-alt-copolymer Containing Terpyridyl Zinc(II) Moieties. *Macromolecules*, **2006**, 39, 8559-8566	5.5	81
94	Platinum(II) complexes with pyridyl azolate-based chelates: synthesis, structural characterization, and tuning of photo- and electrophosphorescence. *Inorganic Chemistry*, **2006**, 45, 137-46	5.1	167
93	Doubly ortho-linked quinoxaline/diphenylfluorene hybrids as bipolar, fluorescent chameleons for optoelectronic applications. *Journal of the American Chemical Society*, **2006**, 128, 10992-3	16.4	117
92	Synthesis and Characterization of Light-Emitting H-Bonded Complexes and Polymers Containing Bis(pyridyl) Emitting Acceptors. *Macromolecules*, **2006**, 39, 557-568	5.5	37
91	Synthesis and characterization of light-emitting oligo(p-phenylene-vinylene)s and polymeric derivatives containing three- and five-conjugated phenylene rings. II. Electro-optical properties and optimization of PLED performance. *Journal of Polymer Science Part A*, **2006**, 44, 2922-2936	2.5	8
90	Organic light-emitting diodes based on charge-neutral Os(II) emitters: generation of saturated red emission with very high external quantum efficiency. *Journal of Materials Chemistry*, **2005**, 15, 460		129
89	High Tg blue emitting materials for electroluminescent devices. *Journal of Materials Chemistry*, **2005**, 15, 2455		81
88	Highly Oriented Growth ofp-Sexiphenyl Molecular Nanocrystals on Rubbed Polymethylene Surface. *Macromolecules*, **2005**, 38, 9617-9624	5.5	21
87	Efficient red-emitting cyclometalated Iridium(III) complexes containing lepidine-based ligands. *Inorganic Chemistry*, **2005**, 44, 5677-85	5.1	147
86	Molecular orientation of evaporated pentacene films on gold: alignment effect of self-assembled monolayer. *Langmuir*, **2005**, 21, 2260-6	4	123

85	Fluorene-based oxadiazoles: thermally stable electron-transporting materials for light-emitting devices. *Synthetic Metals*, **2005**, 148, 133-139	3.6	24
84	Bis(2,2-diphenylvinyl)spirobifluorene: An efficient and stable blue emitter for electroluminescence applications. *Synthetic Metals*, **2005**, 151, 285-292	3.6	25
83	Doubly ortho-linked quinoxaline/triarylamine hybrid as a bifunctional, dipolar electroluminescent template for optoelectronic applications. *Chemical Communications*, **2005**, 3980-2	5.8	42
82	Chromophore-Labeled Quinoxaline Derivatives as Efficient Electroluminescent Materials. *Chemistry of Materials*, **2005**, 17, 1860-1866	9.6	237
81	Hexaphenylphenylene dendronised pyrenylamines for efficient organic light-emitting diodes. *Journal of Materials Chemistry*, **2005**, 15, 4453		91
80	Luminescent silver metal chains with unusual mu4-bonded 2,2Sbipyrazine. *Dalton Transactions*, **2005**, 656-8	4.3	34
79	Self-assembled biomimetic monolayers using phospholipid-containing disulfides. *Biomaterials*, **2005**, 26, 2313-24	15.6	64
78	Molecular orientation and bonding of terthiophene-thiol self-assembled on Au(1 1 1): A combined NEXAFS and XPS study. *Journal of Electron Spectroscopy and Related Phenomena*, **2005**, 144-147, 433-436	1.7	10
77	Mapping molecular orientation of pentacene on patterned Au surface. *Journal of Electron Spectroscopy and Related Phenomena*, **2005**, 144-147, 401-404	1.7	7
76	Yellow and Red Electrophosphors Based on Linkage Isomers of Phenylisoquinolinyliridium Complexes: Distinct Differences in Photophysical and Electroluminescence Properties. *Advanced Functional Materials*, **2005**, 15, 387-395	15.6	141
75	In Search of High-Performance Platinum(II) Phosphorescent Materials for the Fabrication of Red Electroluminescent Devices. *Advanced Functional Materials*, **2005**, 15, 223-229	15.6	155
74	White organic light-emitting diodes based on 2,7-bis(2,2-diphenylvinyl)-9,9?-spirobifluorene: Improvement in operational lifetime. *Applied Physics Letters*, **2004**, 85, 4609-4611	3.4	56
73	Color Tuning in Benzo[1,2,5]thiadiazole-Based Small Molecules by Amino Conjugation/Deconjugation: Bright Red-Light-Emitting Diodes. *Advanced Functional Materials*, **2004**, 14, 83-90	15.6	312
72	Cyanocarbazole Derivatives for High-Performance Electroluminescent Devices. *Advanced Functional Materials*, **2004**, 14, 387-392	15.6	87
71	Energy harvesting star-shaped molecules for electroluminescence applications. *Chemical Communications*, **2004**, 2328-9	5.8	35
70	H2S-induced reorganization of mixed monolayer of carboxylic derivatives on silver surface. *Langmuir*, **2004**, 20, 3641-7	4	13
69	New Carbazole□Oxadiazole Dyads for Electroluminescent Devices: Influence of Acceptor Substituents on Luminescent and Thermal Properties. *Chemistry of Materials*, **2004**, 16, 5437-5444	9.6	71
68	Highly Phosphorescent Bis-Cyclometalated Iridium Complexes Containing Benzoimidazole-Based Ligands. *Chemistry of Materials*, **2004**, 16, 2480-2488	9.6	272

67	Spirobifluorene-based pyrazoloquinolines: efficient blue electroluminescent materials. *Journal of Materials Chemistry*, **2004**, 14, 1585		55
66	High-Tg Carbazole Derivatives as Blue-Emitting Hole-Transporting Materials for Electroluminescent Devices. *Advanced Functional Materials*, **2003**, 13, 445-452	15.6	113
65	Highly Efficient Red Electrophosphorescent Devices Based on Iridium Isoquinoline Complexes: Remarkable External Quantum Efficiency Over a Wide Range of Current. *Advanced Materials*, **2003**, 15, 884-888	24	333
64	Realizing green phosphorescent light-emitting materials from rhenium(i) pyrazolato diimine complexes. *Inorganic Chemistry*, **2003**, 42, 1248-55	5.1	179
63	Bisindolylmaleimides as Red Electroluminescence Materials. *Chemistry of Materials*, **2003**, 15, 4527-4532	9.6	52
62	Benzo[a]aceanthrylene Derivatives for Red-Emitting Electroluminescent Materials. *Chemistry of Materials*, **2003**, 15, 4854-4862	9.6	44
61	Star-Shaped Thieno-[3,4-b]-Pyrazines: A New Class of Red-Emitting Electroluminescent Materials. *Advanced Materials*, **2002**, 14, 822	24	109
60	Energy transfer vs. carrier trapping: emission mechanism in dye-doped organic light emitting diodes. *Thin Solid Films*, **2002**, 417, 61-66	2.2	26
59	Light-Emitting Diodes Based on a Carbazole-Derivatized Dopant: Origin of Dopant Excitation as a Function of the Device Structure. *Chemistry of Materials*, **2002**, 14, 357-361	9.6	55
58	Diaminoanthracene Derivatives as High-Performance Green Host Electroluminescent Materials. *Chemistry of Materials*, **2002**, 14, 3958-3963	9.6	117
57	Electroluminescent properties of light-emitting diodes based on 9,9-bis[4-(diarylaminophenyl)]fluorene derivatives **2002**, 4464, 281		2
56	Infrared and Atomic Force Microscopy Imaging Study of the Reorganization of Self-Assembled Monolayers of Carboxylic Acids on Silver Surface. *Langmuir*, **2002**, 18, 8400-8406	4	16
55	New Star-Shaped Luminescent Triarylamines: Synthesis, Thermal, Photophysical, and Electroluminescent Characteristics. *Chemistry of Materials*, **2002**, 14, 1354-1361	9.6	95
54	Amorphous 2,3-Substituted Thiophenes: Potential Electroluminescent Materials. *Chemistry of Materials*, **2002**, 14, 1884-1890	9.6	49
53	Green and Yellow Electroluminescent Dipolar Carbazole Derivatives:Features and Benefits of Electron-Withdrawing Segments. *Chemistry of Materials*, **2002**, 14, 3852-3859	9.6	92
52	Electroluminescent bipolar compounds containing quinoxaline or pyridopyrazine and triarylamine segments. *Journal of Materials Chemistry*, **2002**, 12, 3516-3522		59
51	Highly-bright white organic light-emitting diodes based on a single emission layer. *Applied Physics Letters*, **2002**, 81, 4499-4501	3.4	140
50	Efficient Blue Light-Emitting Diodes Based on Triarylamine-Substituted Dipyrazolopyridine Derivatives. *Chemistry of Materials*, **2002**, 14, 4256-4261	9.6	44

49	Efficient electroluminescent material for light-emitting diodes from 1,4-distyrylbenzene derivatives. *Journal of Materials Chemistry*, **2002**, 12, 47-52		22
48	Blue-Emitting Anthracenes with End-Capping Diarylamines. *Chemistry of Materials*, **2002**, 14, 3860-3865	9.6	165
47	Photo and electroluminescence of 2-anilino-5-phenylpenta-2,4-dienenitrile derivatives. *Journal of Materials Chemistry*, **2002**, 12, 42-46		13
46	Quinoxalines Incorporating Triarylamines:Potential Electroluminescent Materials with Tunable Emission Characteristics. *Chemistry of Materials*, **2002**, 14, 2796-2802	9.6	90
45	9,9-Bis{4-[di-(p-biphenyl)aminophenyl]}fluorene: a high Tg and efficient hole-transporting material for electroluminescent devices. *Synthetic Metals*, **2002**, 126, 37-41	3.6	48
44	Diphenylthienylamine-Based Star-Shaped Molecules for Electroluminescence Applications. *Chemistry of Materials*, **2001**, 13, 2626-2631	9.6	68
43	Bright white organic light-emitting diode. *Applied Physics Letters*, **2001**, 79, 4234-4236	3.4	158
42	Organic Light-Emitting Diodes Based on Variously Substituted Pyrazoloquinolines as Emitting Material. *Chemistry of Materials*, **2001**, 13, 1207-1212	9.6	81
41	Light-emitting carbazole derivatives: potential electroluminescent materials. *Journal of the American Chemical Society*, **2001**, 123, 9404-11	16.4	456
40	Pyrazoloquinoline derivatives as efficientblue electroluminescent materials. *Journal of Materials Chemistry*, **2001**, 11, 768-772		35
39	Organic Light-Emitting Diodes Based on 2-(Stilben-4-yl)benzoxazole Derivatives:An Implication on the Emission Mechanism. *Chemistry of Materials*, **2001**, 13, 2441-2446	9.6	72
38	Synthesis, Properties, and Applications of Tetraphenylmethane-Based Molecular Materials for Light-Emitting Devices. *Chemistry of Materials*, **2001**, 13, 2788-2796	9.6	83
37	Starburst Molecules Based on Hexathienylbenzene Units: Potential Hole-Transport Materials. *Advanced Materials*, **2000**, 12, 668-669	24	61
36	Novel Green Light-Emitting Carbazole Derivatives: Potential Electroluminescent Materials. *Advanced Materials*, **2000**, 12, 1949-1951	24	78
35	Sharp green electroluminescence from 1H-pyrazolo[3,4-b]quinoline-based light-emitting diodes. *Applied Physics Letters*, **2000**, 77, 1575-1577	3.4	74
34	Dipyrazolopyridine derivatives as bright blue electroluminescent materials. *Applied Physics Letters*, **2000**, 77, 933	3.4	86
33	Hydrogen Sulfide-Induced Desorption/Reorganization of Self-Assembled Monolayers of Alkanethiol and Its Derivatives. *Journal of the American Chemical Society*, **2000**, 122, 7072-7079	16.4	7
32	Blue Light-Emitting Diodes Based on Dipyrazolopyridine Derivatives. *Chemistry of Materials*, **2000**, 12, 2788-2793	9.6	59

31	Monolayer-Protected Cluster Superlattices: Structural, Spectroscopic, Calorimetric, and Conductivity Studies. *Chemistry of Materials*, **2000**, 12, 104-113	9.6	64
30	Patterning Ultrathin Polymethylene Films: Applications as a Resist in Electrochemical Growth of Conducting Patterns. *Molecular Crystals and Liquid Crystals*, **1999**, 337, 13-18		2
29	Tetraphenylmethane-Based 1,3,4-Oxadiazole as Electron Transporting Materials in Organic Light-Emitting Devices. *Materials Research Society Symposia Proceedings*, **1999**, 598, 366		1
28	Microfabrication of Interdigitated Polyaniline/Polymethylene Patterns on a Gold Surface. *Langmuir*, **1998**, 14, 6158-6166	4	21
27	Relationship between Packing Structure and Headgroups of Self-Assembled Monolayers on Au(111): Bridging Experimental Observations through Computer Simulations. *Journal of Physical Chemistry B*, **1998**, 102, 2935-2946	3.4	59
26	Self-Assembled Monolayers of Thioalkanoate on Ag and Au Surfaces: Hydrolysis and Rearrangement at the Interface. *Langmuir*, **1998**, 14, 145-150	4	11
25	Infrared Spectroscopic Study of Chemically lnduced Dewetting in Liquid Crystalline Types of Self-Assembled Monolayers. *Journal of Physical Chemistry B*, **1997**, 101, 9732-9740	3.4	41
24	Molecular Gradients of Substituted Alkanethiols on Gold Studied by X-ray Photoelectron Spectroscopy. *Langmuir*, **1997**, 13, 5329-5334	4	56
23	Synthesis of Crystalline, Nanometer-Scale, (CH2)x Clusters and Films on Gold Surfaces. *Journal of the American Chemical Society*, **1997**, 119, 4698-4711	16.4	35
22	Structure Evolution of Aromatic-Derivatized Thiol Monolayers on Evaporated Gold. *Langmuir*, **1997**, 13, 4018-4023	4	281
21	HCl Vapor-Induced Structural Rearrangements of n-Alkanoate Self-Assembled Monolayers on Ambient Silver, Copper, and Aluminum Surfaces. *Journal of the American Chemical Society*, **1996**, 118, 6724-6735	16.4	69
20	Isolation, identification, and synthesis of sex pheromone components of female tea cluster caterpillar,Andraca bipunctata walker (Lepidoptera: Bombycidae) in Taiwan. *Journal of Chemical Ecology*, **1996**, 22, 271-85	2.7	14
19	Structural Tailoring of Monomolecular Films on Evaporated Silver Surface. *Journal of the Chinese Chemical Society*, **1995**, 42, 659-666	1.5	4
18	Control of molecular chain tilt in self-assembled monolayers and its effect on wetting properties. *Thin Solid Films*, **1994**, 244, 810-814	2.2	11
17	Phase Separation of Mixed-Composition Self-Assembled Monolayers into Nanometer Scale Molecular Domains. *The Journal of Physical Chemistry*, **1994**, 98, 7636-7646		315
16	Structure of Self-Assembled Monolayers of Aromatic-Derivatized Thiols on Evaporated Gold and Silver Surfaces: Implication on Packing Mechanism. *Journal of the American Chemical Society*, **1994**, 116, 6792-6805	16.4	179
15	Hydrogen Chloride Induced Reorganization of Packing Phases in Self-assembled Monolayers of n-Alkanoic Acids on Silver Surface. *Journal of the Chinese Chemical Society*, **1994**, 41, 481-485	1.5	2
14	Effect of biphenyl and naphthyl groups on the structure of self-assembled monolayers: packing, orientation, and wetting properties. *Journal of the American Chemical Society*, **1993**, 115, 9547-9555	16.4	85

13	Structural comparison of self-assembled monolayers of n-alkanoic acids on the surfaces of silver, copper, and aluminum. *Journal of the American Chemical Society*, **1993**, 115, 4350-4358	16.4	446
12	Acidity effects on light-promoted carbonylation of olefins in the presence of cobalt catalysis. *Journal of Molecular Catalysis*, **1991**, 67, 105-115		5
11	Comparison of the structures and wetting properties of self-assembled monolayers of n-alkanethiols on the coinage metal surfaces, copper, silver, and gold. *Journal of the American Chemical Society*, **1991**, 113, 7152-7167	16.4	1747
10	Formation of monolayer films by the spontaneous assembly of organic thiols from solution onto gold. *Journal of the American Chemical Society*, **1989**, 111, 321-335	16.4	3064
9	Structure and reactivity of alkylsiloxane monolayers formed by reaction of alkyltrichlorosilanes on silicon substrates. *Langmuir*, **1989**, 5, 1074-1087	4	1077
8	Perkin communications. Cobalt-catalysed photochemical methoxycarbonylation of olefins under ambient conditions. *Journal of the Chemical Society Perkin Transactions 1*, **1989**, 2509		8
7	Regioselective alkylation of 3-trimethylsilyl-3-sulfolene: route to stereospecific 2-silylated butadiene derivatives. *Journal of Organic Chemistry*, **1988**, 53, 69-72	4.2	21
6	Molecular recognition in a monolayer matrix on silica gel. *Journal of the Chemical Society Chemical Communications*, **1988**, 417		5
5	Convenient syntheses of precursors of silylated 1,3-dienes. *Journal of Organic Chemistry*, **1987**, 52, 244-246	4.2	33
4	Regioselective alkylation of 3-substituted 3-sulfolenes. *Journal of Organic Chemistry*, **1986**, 51, 4718-4721	4.2	18
3	Mechanisms of elimination reactions. 38. Why is the effect of successive .beta.-alkyl substitution on the rates of elimination from quaternary ammonium salts nonadditive?. *Journal of the American Chemical Society*, **1984**, 106, 7583-7588	16.4	3
2	Mechanisms of elimination reactions. 36. Stereochemistry and transition-state structure in eliminations from primary alkyltrimethylammonium salts. *Journal of the American Chemical Society*, **1983**, 105, 3183-3188	16.4	8
1	Effect of surface modification of nickel oxide hole-transport layer via self-assembled monolayers in perovskite solar cells. *Nano Select*,	3.1	1