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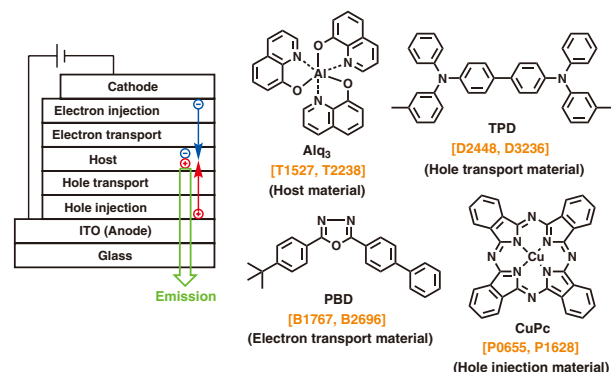
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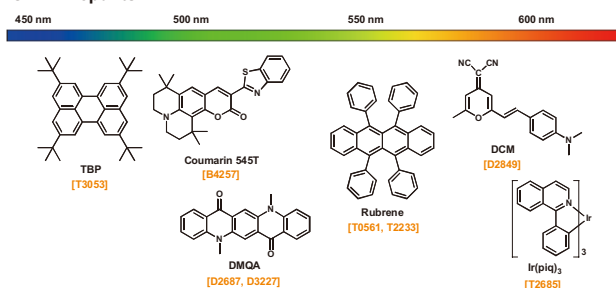
Organic Light-Emitting Diode (OLED) Materials

Organic light-emitting diode (OLED) devices have received much attention, because they are expected to be a next generation display and light source, thanks to lightweight and flexible organic materials. The OLED was focused on practical use, after Tang *et al.* first observed the OLED device by use of a two layered organic thin film.¹⁾ Adachi *et al.* further reported a three layered device, in which a host layer is sandwiched by hole transport and electron transport layers. In addition, they reported a two layered system, in which one layer has roles of host and electron transport properties.^{2,3)} A five layered system including electron injection and hole injection layers has been also studied in order to improve the efficiency of carrier injection. One can control RGB colors of emission by selection of a dopant into a host layer. A suitable combination of the dopant can give a white colored device.^{4,5)} An application using the white organic light-emitting device (WOLED) is an OLED light panel.⁶⁾

An amorphous material is useful for an OLED device, because it is transparent, homogeneous, isotropic and easily processible. A practical OLED device further requires excellent heat-resistance and durability. Many hole transport materials based on triphenylamine derivatives (TPD) are widely usable,



OLED Dopants



because they are heat-resistant and amorphous.^{7,8)} In addition to the TPDs, oxadiazole derivatives (PBD) having an electron transport property,⁹⁾ Alq₃ as a host material,¹⁾ and blue emissive distyryl derivatives¹⁰⁾ are fundamental materials for amorphous OLED devices.

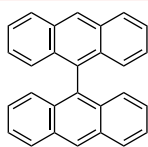
A conventional fluorescent material provides only 25% of a singlet exciton but loses 75% of the triplet one by a nonradiative deactivation, although it has a high current density. On the other hand, a phosphorescent material may provide 100% EL quantum efficiency through an intersystem crossing from singlet to triplet excited states. The phosphorescent Ir(ppy)₃ and its analogues have been reported so far.¹¹⁾ Recently, metal-free materials exhibiting thermally activated delayed fluorescence (TADF) were investigated as well. Adachi *et al.* reported more than 25% quantum efficiency by use of fluorescent materials having a low energy gap between singlet and triplet excited states, because an inverted energy transfer occurs from the triplet to the singlet state.^{12,13)}

References

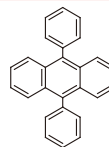
- 1) C. W. Tang, S. A. VanSlyke, *Appl. Phys. Lett.* **1987**, 51, 913.
- 2) C. Adachi, S. Tokito, T. Tsutsui, S. Saito, *Jpn. J. Appl. Phys.* **1988**, 27, L269.
- 3) C. Adachi, S. Tokito, T. Tsutsui, S. Saito, *Jpn. J. Appl. Phys.* **1988**, 27, L713.
- 4) Review: B. Luessem, M. Riede, K. Leo, *Phys. Org. Semicon. (2nd Edition)* **2012**, 427.
- 5) Review: C. Adachi, T. Oyamada, T. Matsushima, *Mol. Electron. Bioelectron.* **2007**, 18, 25.
- 6) Review: H. Sasabe, J. Kido, *J. Mater. Chem. C* **2013**, 1, 1699.
- 7) Y. Shirota, K. Okumoto, H. Inada, *Synth. Met.* **2000**, 111-112, 387.
- 8) X. Zhou, J. Blochwitz, M. Pfeiffer, A. Nollau, T. Fritz, K. Leo, *Adv. Funct. Mater.* **2001**, 11, 310.
- 9) M. Era, C. Adachi, T. Tsutsui, S. Saito, *Chem. Phys. Lett.* **1991**, 178, 488.
- 10) C. Hosokawa, H. Higashi, H. Nakamura, T. Kusumoto, *Appl. Phys. Lett.* **1995**, 67, 3853.
- 11) C. Adachi, M. A. Baldo, S. R. Forrest, M. E. Thompson, *Appl. Phys. Lett.* **2000**, 77, 904.
- 12) H. Uoyama, K. Goushi, K. Shizu, H. Nomura, C. Adachi, *Nature* **2012**, 492, 234.
- 13) Q. Zhang, B. Li, S. Huang, H. Nomura, H. Tanaka, C. Adachi, *Nat. Photonics* **2014**, 8, 326.

Host Materials

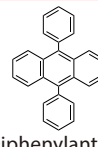
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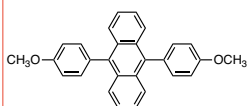
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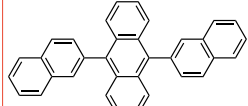
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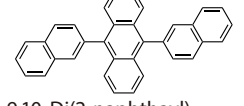
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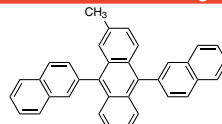
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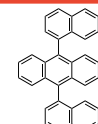
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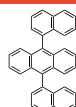
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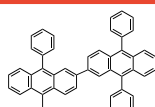
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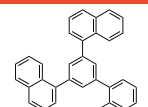
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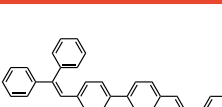
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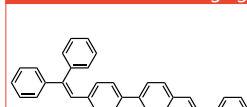
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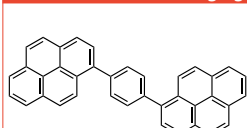
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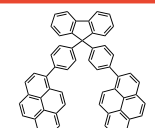
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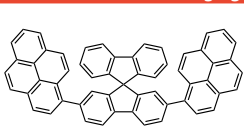
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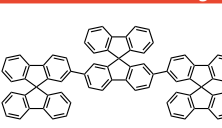
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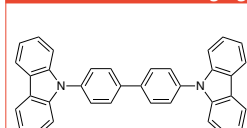
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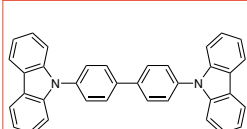
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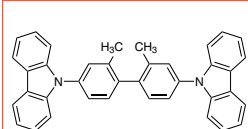
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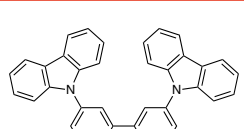
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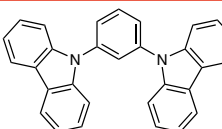
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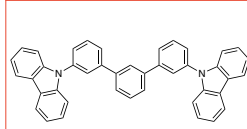
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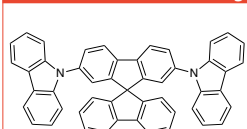
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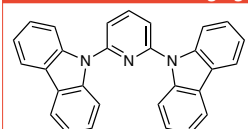
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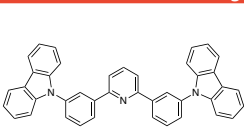
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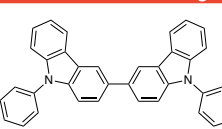
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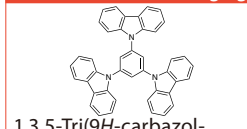
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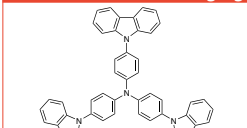
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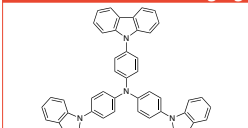
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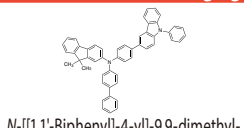
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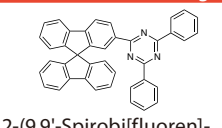
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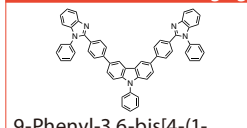
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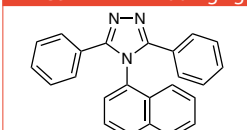
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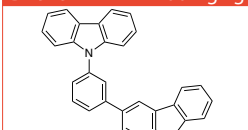
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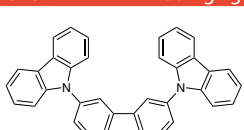
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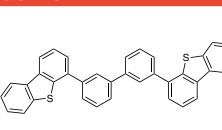
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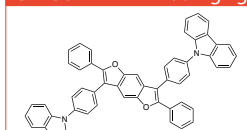
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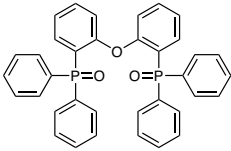
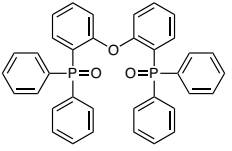
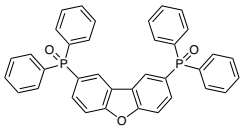
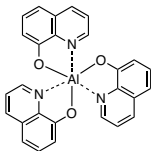
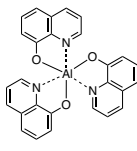
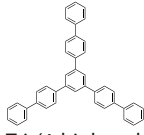
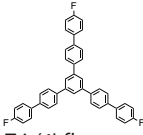
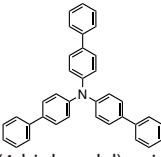
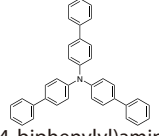
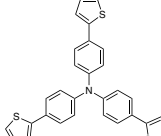
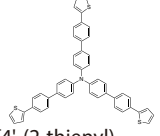
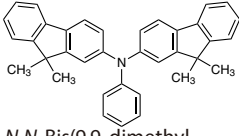
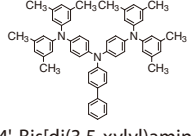
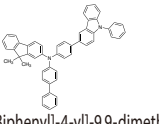
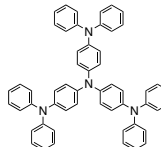
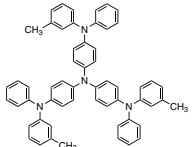
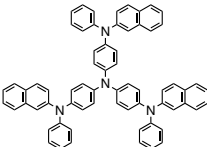
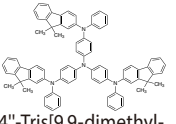
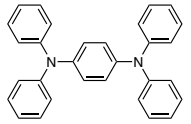
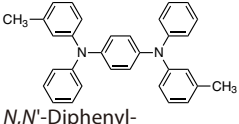
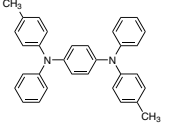
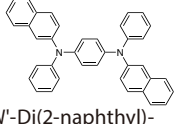
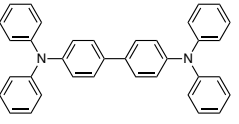
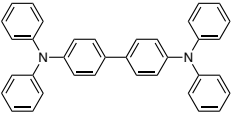
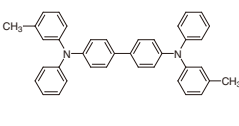
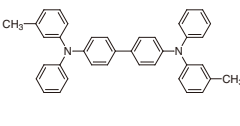
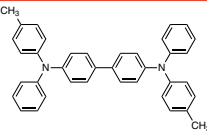
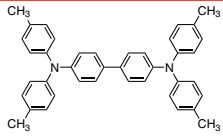
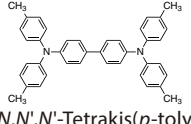
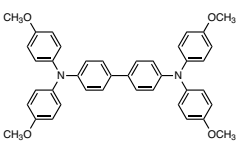
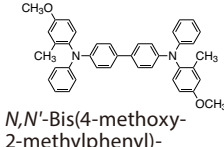
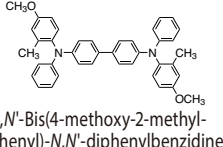
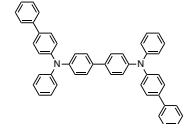
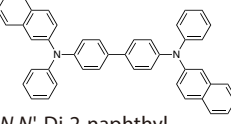
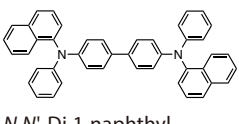
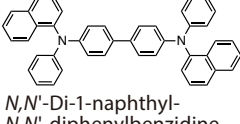
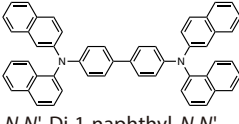
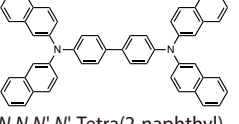
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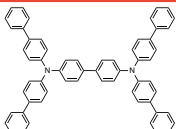
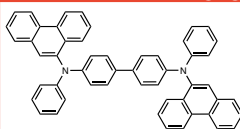
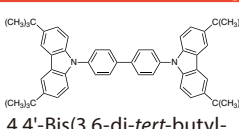
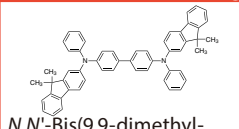
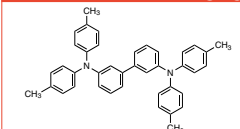
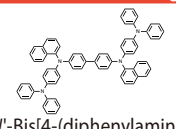
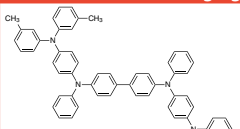
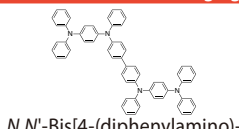
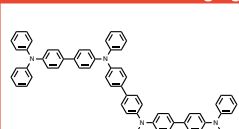
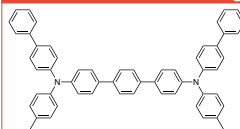
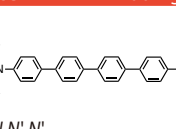
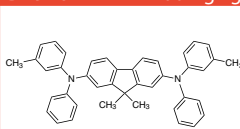
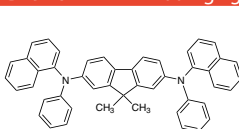
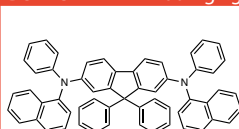
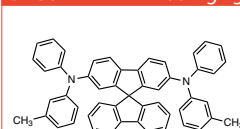
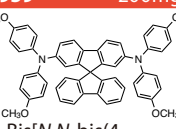
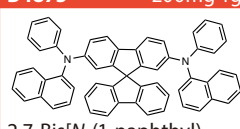
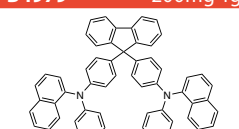
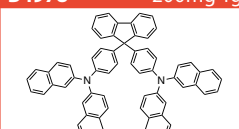
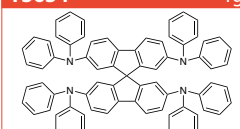
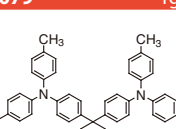
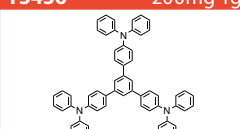
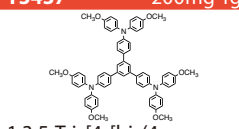
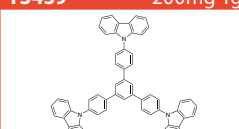
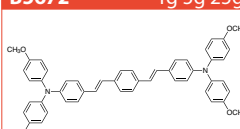
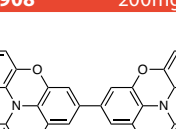
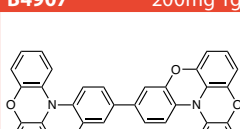
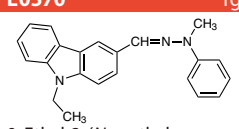
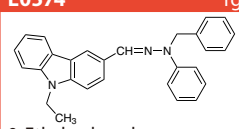
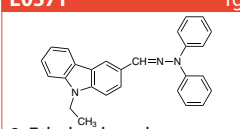
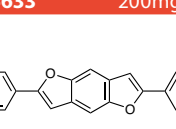
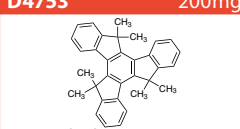
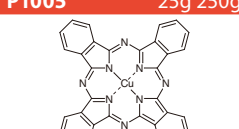
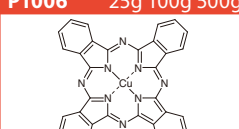
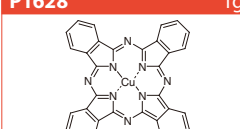
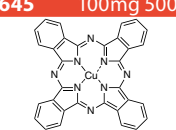
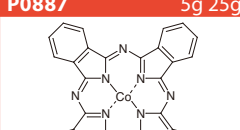
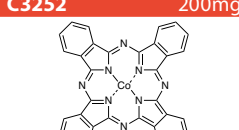
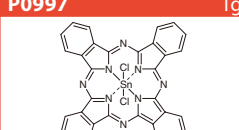
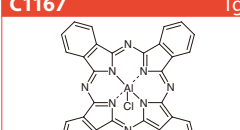
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CAS RN: 1128045-14-6

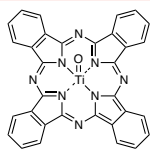
C2780 200mg 1g

CZBDF
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Hole Transport Materials				
		T3461 1g  1,3,5-Tris(4-biphenyl)-benzene CAS RN: 6326-64-3	T3462 200mg  1,3,5-Tris(4'-fluoro-biphenyl-4-yl)benzene CAS RN: 372956-40-6	T3327 1g 5g  Tris(4-biphenyl)amine CAS RN: 6543-20-0
T3778 200mg 1g  Tris(4-biphenyl)amine (purified by sublimation) CAS RN: 6543-20-0	T3050 1g 5g  Tris[4-(2-thienyl)phenyl]amine CAS RN: 142807-63-4	T3337 200mg  Tris[4'-(2-thienyl)-4-biphenyl]amine CAS RN: 1092356-36-9	B5045 200mg 1g  N,N-Bis(9,9-dimethyl-9H-fluoren-2-yl)aniline CAS RN: 165320-27-4	B2269 100mg 1g  4,4'-Bis[di(3,5-xylyl)amino]-4''-phenyltriphenylamine CAS RN: 249609-49-2
B5435 1g 5g  N-[1,1'-Biphenyl]-4-yl]-9,9-dimethyl-N-[4-(9-phenyl-9H-carbazol-3-yl)-phenyl]-9H-fluoren-2-amine CAS RN: 1242056-42-3	T3062 200mg 1g  TDATA CAS RN: 105389-36-4	T2251 100mg  m-MTDA CAS RN: 124729-98-2	T3233 1g  2-TNATA CAS RN: 185690-41-9	T3438 200mg 1g  4,4',4''-Tris(9,9-dimethyl-fluoren-2-yl(phenyl)-amino)-triphenylamine CAS RN: 303111-06-0
T3309 1g 5g  N,N,N',N'-Tetraphenyl-1,4-phenylenediamine CAS RN: 14118-16-2	D4930 1g 5g  N,N'-Diphenyl-N,N'-di(m-tolyl)-1,4-phenylenediamine CAS RN: 80223-29-6	D4905 1g 5g  N,N'-Diphenyl-N,N'-bis(p-tolyl)-1,4-phenylenediamine CAS RN: 138171-14-9	D4929 1g 5g  N,N'-Di(2-naphthyl)-N,N'-diphenyl-1,4-phenylenediamine CAS RN: 139994-47-1	T1812 5g 25g  TPB CAS RN: 15546-43-7
T3266 1g 5g  TPB (purified by sublimation) CAS RN: 15546-43-7	D2448 1g 5g  TPD CAS RN: 65181-78-4	D3236 1g 5g  TPD (purified by sublimation) CAS RN: 65181-78-4	D4834 200mg 1g  N,N'-Diphenyl-N,N'-di(p-tolyl)benzidine CAS RN: 20441-06-9	T2269 5g  N,N,N',N'-Tetrakis(p-tolyl)-benzidine CAS RN: 76185-65-4
T3265 1g  N,N,N',N'-Tetrakis(p-tolyl)-benzidine (purified by sublimation) CAS RN: 76185-65-4	T3290 200mg 1g  MeO-TPD CAS RN: 122738-21-0	B4470 5g 25g  N,N'-Bis(4-methoxy-2-methylphenyl)-N,N'-diphenylbenzidine CAS RN: 169685-34-1	B5140 1g 5g  N,N'-Bis(4-methoxy-2-methylphenyl)-N,N'-diphenylbenzidine (purified by sublimation) CAS RN: 169685-34-1	D4928 1g 5g  N,N'-Di(4-biphenyl)-N,N'-diphenylbenzidine CAS RN: 134008-76-7
D4253 1g  N,N'-Di-2-naphthyl-N,N'-diphenylbenzidine CAS RN: 139255-17-7	D5126 1g 5g  N,N'-Di-1-naphthyl-N,N'-diphenylbenzidine CAS RN: 123847-85-8	D3970 1g 5g  N,N'-Di-1-naphthyl-N,N'-diphenylbenzidine (purified by sublimation) CAS RN: 123847-85-8	D4855 200mg 1g  N,N'-Di-1-naphthyl-N,N'-di-2-naphthylbenzidine CAS RN: 374592-88-8	T3288 1g  N,N,N',N'-Tetra(2-naphthyl)-benzidine CAS RN: 141752-82-1

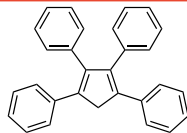
T3054 1g  <i>N,N,N',N'</i> -Tetrakis(4-biphenyl)benzidine CAS RN: 164724-35-0	D5177 200mg 1g  <i>N,N'</i> -Di(9-phenanthrenyl)- <i>N,N'</i> -diphenylbenzidine CAS RN: 182507-83-1	B5675 1g  4,4'-Bis(3,6-di- <i>tert</i> -butyl-9 <i>H</i> -carbazol-9-yl)-1,1'-biphenyl CAS RN: 838862-47-8	B4962 1g  <i>N,N'</i> -Bis(9,9-dimethyl-9 <i>H</i> -fluoren-2-yl)- <i>N,N'</i> -diphenylbenzidine CAS RN: 361486-60-4	B4874 1g 5g  3,3'-Bis(di(<i>p</i> -tolyl)amino)-biphenyl CAS RN: 161485-60-5
B5093 1g 5g  <i>N,N'</i> -Bis[4-(diphenylamino)-phenyl]- <i>N,N'</i> -di(1-naphthyl)-benzidine CAS RN: 910058-11-6	B5634 1g 5g  DNTPD CAS RN: 199121-98-7	B5117 200mg 1g  <i>N,N'</i> -Bis[4-(diphenylamino)-phenyl]- <i>N,N'</i> -diphenylbenzidine CAS RN: 209980-53-0	D4863 1g 5g  TPTE CAS RN: 167218-46-4	T3656 1g  TaTm CAS RN: 952431-34-4
T3657 200mg 1g  <i>N,N,N',N'</i> -Tetraphenyl[1,1':4,1'':4'':1'''-quaterphenyl]-4,4'''-diamine CAS RN: 145898-89-1	D4920 200mg 1g  DMFL-TPD CAS RN: 143886-11-7	B4926 200mg 1g  DMFL-NPB CAS RN: 222319-05-3	D5443 200mg 1g  DPFL-NPB CAS RN: 357645-40-0	B4882 200mg 1g  2,7-Bis[<i>N</i> -(<i>m</i> -tolyl)anilino]-9,9'-spirobi[9 <i>H</i> -fluorene] CAS RN: 1033035-83-4
B4959 200mg 1g  2,7-Bis[<i>N,N</i> -bis(4-methoxyphenyl)amino]-9,9'-spirobi[9 <i>H</i> -fluorene] CAS RN: 1138220-69-5	B4875 200mg 1g  2,7-Bis[<i>N</i> -(1-naphthyl)-anilino]-9,9'-spirobi[9 <i>H</i> -fluorene] CAS RN: 932739-76-9	B4979 200mg 1g  9,9-Bis[4-[<i>N</i> -(1-naphthyl)-anilino]phenyl]fluorene CAS RN: 510775-24-3	B4978 200mg 1g  9,9-Bis[4-[di(2-naphthyl)-amino]phenyl]fluorene CAS RN: 916061-87-5	T3634 1g  2,2',7,7'-Tetrakis(diphenylamino)-9,9'-spirobi[9 <i>H</i> -fluorene] CAS RN: 189363-47-1
B2079 1g 5g  TAPC CAS RN: 58473-78-2	T3436 200mg 1g  1,3,5-Tris[4-(diphenyl-amino)phenyl]benzene CAS RN: 147951-36-8	T3437 200mg 1g  1,3,5-Tris[4-[bis(4-methoxyphenyl)amino]-phenyl]benzene CAS RN: 142894-38-0	T3439 200mg 1g  1,3,5-Tris[4-(9-carbazolyl)-phenyl]benzene CAS RN: 160780-82-5	B5672 1g 5g 25g  TOP-HTM-α1 CAS RN: 872466-50-7
B4908 200mg 1g  HN-D1 CAS RN: 1395881-55-6	B4907 200mg 1g  HN-D2 CAS RN: 1395881-58-9	E0570 1g  9-Ethyl-3-(<i>N</i> -methyl- <i>N</i> -phenylhydrazonomethyl)-carbazole CAS RN: 75232-44-9	E0574 1g  9-Ethylcarbazole-3-carboxaldehyde <i>N</i> -Benzyl- <i>N</i> -phenylhydrazone CAS RN: 75238-79-8	E0571 1g  9-Ethylcarbazole-3-carboxaldehyde Diphenylhydrazone CAS RN: 73276-70-7
D4633 200mg 1g  2,6-Diphenylbenzo[1,2- <i>b</i> :4,5- <i>b'</i>]difuran CAS RN: 5379-77-1	D4753 200mg  10,15-Dihydro-5,5,10,10,15,15-hexamethyl-5 <i>H</i> -tribenzo[<i>a,f,k</i>]-trindene CAS RN: 597554-76-2	P1005 25g 250g  Copper(II) Phthalocyanine (α-form) CAS RN: 147-14-8	P1006 25g 100g 500g  Copper(II) Phthalocyanine (β-form) CAS RN: 147-14-8	P1628 1g  Copper Phthalocyanine (purified by sublimation) CAS RN: 147-14-8
C3645 100mg 500mg  Copper(II) Phthalocyanine (purified by sublimation) [for organic electronics] CAS RN: 147-14-8	P0887 5g 25g  Cobalt(II) Phthalocyanine CAS RN: 3317-67-7	C3252 200mg  Cobalt(II) Phthalocyanine (purified by sublimation) CAS RN: 3317-67-7	P0997 1g  Tin(IV) Phthalocyanine Dichloride CAS RN: 18253-54-8	C1167 1g  Phthalocyanine Chloroaluminum CAS RN: 14154-42-8

T2272 200mg 1g

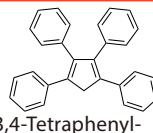
TiOPc (purified by sublimation)
CAS RN: 26201-32-1

Electron Transport Materials

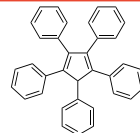
T1333 1g 5g

1,2,3,4-Tetraphenyl-1,3-cyclopentadiene
(purified by sublimation)
CAS RN: 15570-45-3

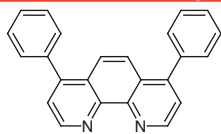
T3771 1g

1,2,3,4-Tetraphenyl-1,3-cyclopentadiene
(purified by sublimation)
CAS RN: 15570-45-3

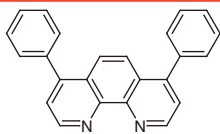
P1633 100mg 1g

1,2,3,4,5-Pentaphenyl-1,3-cyclopentadiene
(purified by sublimation)
CAS RN: 2519-10-0

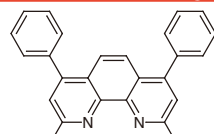
D0905 1g 5g

Bathophenanthroline
CAS RN: 1662-01-7

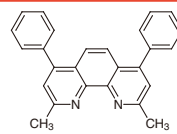
B2695 1g

Bathophenanthroline
(purified by sublimation)
CAS RN: 1662-01-7

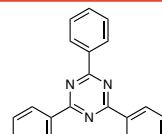
D0711 1g 5g

Bathocuproine
CAS RN: 4733-39-5

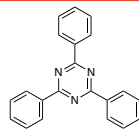
B2694 1g 5g

Bathocuproine
(purified by sublimation)
CAS RN: 4733-39-5

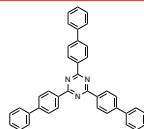
T2785 1g 5g

2,4,6-Triphenyl-1,3,5-triazine
CAS RN: 493-77-6

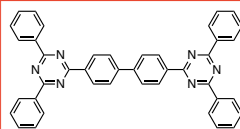
T3268 1g

2,4,6-Triphenyl-1,3,5-triazine
(purified by sublimation)
CAS RN: 493-77-6

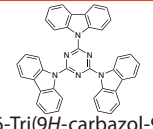
T3539 200mg 1g

2,4,6-Tri([1,1'-biphenyl]-4-yl)-1,3,5-triazine
CAS RN: 31274-51-8

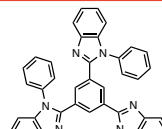
B4977 200mg 1g

4,4'-Bis(4,6-diphenyl-1,3,5-triazin-2-yl)biphenyl
CAS RN: 266349-83-1

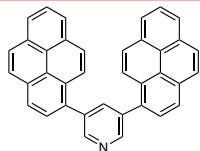
T2700 1g 5g

2,4,6-Tri(9H-carbazol-9-yl)-1,3,5-triazine (purified by sublimation)
CAS RN: 134984-37-5

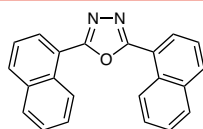
T3537 200mg 1g

TPBi
CAS RN: 192198-85-9

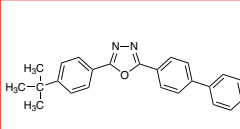
D4931 200mg 1g

3,5-Di(1-pyrenyl)pyridine
CAS RN: 1246467-58-2

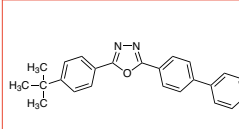
D2757 5g

2,5-Di(1-naphthyl)-1,3,4-oxadiazole
CAS RN: 905-62-4

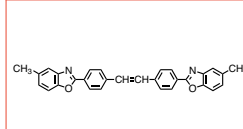
B1767 5g 25g

PBD
CAS RN: 15082-28-7

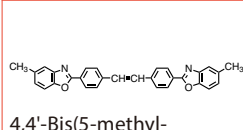
B2696 1g 5g

PBD (purified by sublimation)
CAS RN: 15082-28-7

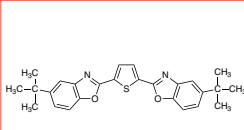
B1564 5g

4,4'-Bis(5-methyl-2-benzoxazolyl)stilbene
CAS RN: 2397-00-4

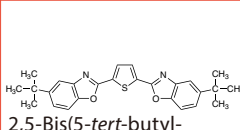
B2676 1g

4,4'-Bis(5-methyl-2-benzoxazolyl)stilbene
(purified by sublimation)
CAS RN: 2397-00-4

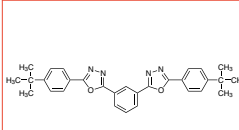
B1554 5g 25g

2,5-Bis(5-tert-butyl-2-benzoxazolyl)thiophene
CAS RN: 7128-64-5

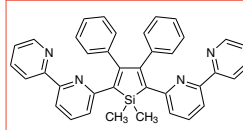
B4221 1g 5g

2,5-Bis(5-tert-butyl-2-benzoxazolyl)thiophene
(purified by sublimation)
CAS RN: 7128-64-5

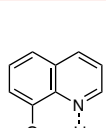
B4252 200mg 1g

OXD-7
CAS RN: 138372-67-5

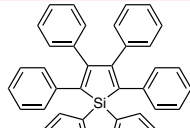
B4233 200mg

2,5-Bis(2,2'-bipyridin-6-yl)-1,1-dimethyl-3,4-diphenylsilole
CAS RN: 350042-00-1

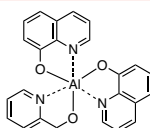
Q0100 1g 5g

(8-Quinololinato)lithium
CAS RN: 25387-93-3

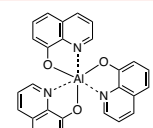
H1413 1g

HPS
CAS RN: 752-28-3

T1527 5g 25g 250g

Alq3
CAS RN: 2085-33-8

T2238 5g

Alq3 (purified by sublimation)
CAS RN: 2085-33-8

Blue Dopants

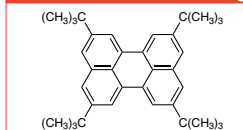
P0078 1g 5g 25g

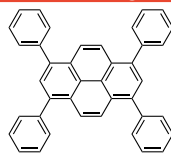
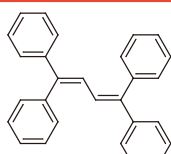
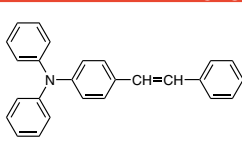
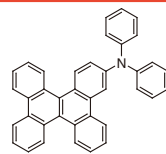
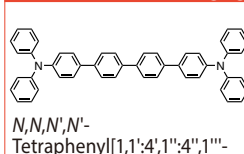
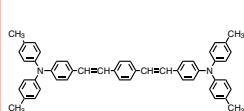
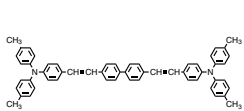
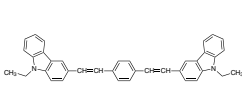
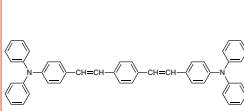
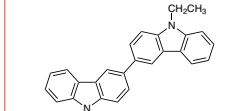
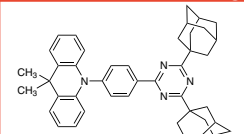
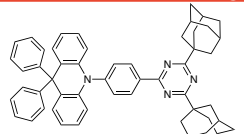
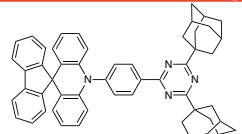
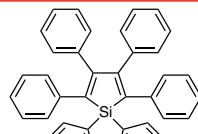
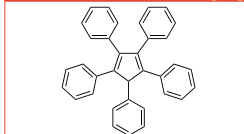
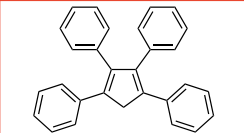
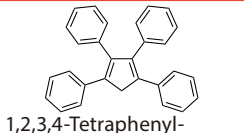
Perylene
CAS RN: 198-55-0

P1629 1g

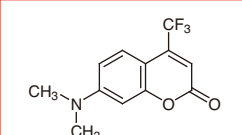
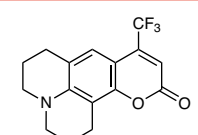
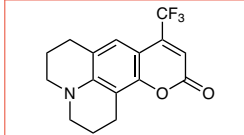
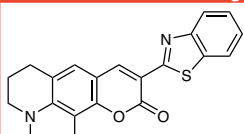
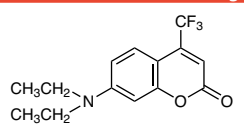
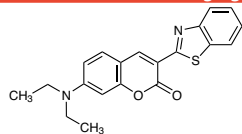
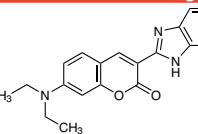
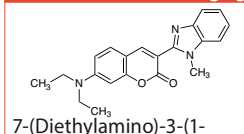
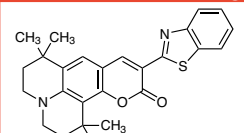
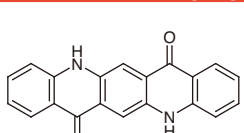
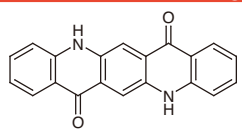
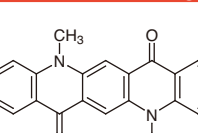
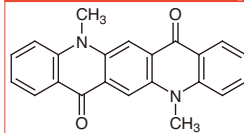
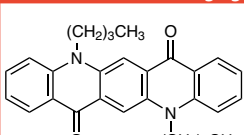
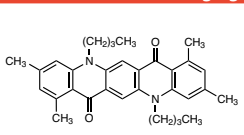
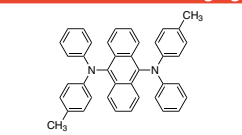
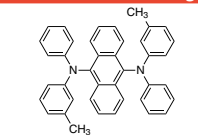
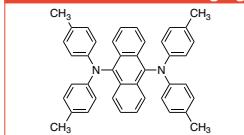
Perylene
(purified by sublimation)
CAS RN: 198-55-0

T3053 100mg

2,5,8,11-Tetra-tert-butyl-perylene
CAS RN: 80663-92-9

T3042 50mg 200mg1,3,6,8-Tetraphenylpyrene
CAS RN: 13638-82-9**T0168** 1g 5gTPB
CAS RN: 1450-63-1**S0924** 1g 5g4-Styryltriphenylamine
CAS RN: 89114-74-9**D3739** 200mg3-DPADBC
CAS RN: 1397202-77-5**T3657** 200mg 1g*N,N,N',N'*-Tetraphenyl[1,1':4',1'':4'',1'''-quaterphenyl]-4,4'''-diamine
CAS RN: 145898-89-1**B2080** 1g1,4-Bis[4-(di-*p*-tolylamino)-styryl]benzene
CAS RN: 55035-43-3**B4682** 200mg4,4'-Bis[4-(di-*p*-tolylamino)-styryl]biphenyl
CAS RN: 119586-44-6**B4792** 200mg1,4-Bis[2-(9-ethylcarbazol-3-yl)vinyl]benzene
CAS RN: 62608-15-5**B5820** 200mg 1gDSA-Ph
CAS RN: 55035-42-2**D5387** 1g 5g9,9'-Diethyl-9H,9'H-3,3'-bicarbazole
CAS RN: 20466-00-6**D5745** 200mgMA-TA
(purified by sublimation)
CAS RN: 2250187-15-4**D5746** 200mgPA-TA
(purified by sublimation)
CAS RN: 2250187-17-6**D5747** 200mgFA-TA
(purified by sublimation)
CAS RN: 2250187-16-5**H1413** 1gHPS
CAS RN: 752-28-3**P1633** 100mg 1g1,2,3,4,5-Pentaphenyl-1,3-cyclopentadiene
CAS RN: 2519-10-0**T1333** 1g 5g1,2,3,4-Tetraphenyl-1,3-cyclopentadiene
CAS RN: 15570-45-3**T3771** 1g1,2,3,4-Tetraphenyl-1,3-cyclopentadiene
(purified by sublimation)
CAS RN: 15570-45-3

Green Dopants

D3356 5g 25gCoumarin 152
CAS RN: 53518-14-2**C2858** 200mg 1gCoumarin 153
CAS RN: 53518-18-6**C3640** 200mgCoumarin 153
(purified by sublimation)
CAS RN: 53518-18-6**C2900** 200mgCoumarin 545
CAS RN: 85642-11-1**D4466** 200mg7-(Diethylamino)-4-(trifluoromethyl)coumarin
CAS RN: 41934-47-8**B2088** 1g 5g3-(2-Benzothiazolyl)-7-(diethylamino)coumarin
CAS RN: 38215-36-0**B2111** 100mg 1g3-(2-Benzimidazolyl)-7-(diethylamino)coumarin
CAS RN: 27425-55-4**C2837** 200mg 1g7-(Diethylamino)-3-(1-methyl-2-benzimidazolyl)-coumarin
CAS RN: 41044-12-6**B4257** 200mgCoumarin 545T
CAS RN: 155306-71-1**Q0057** 5g 25gQuinacridone
CAS RN: 1047-16-1**Q0083** 1gQuinacridone
(purified by sublimation)
CAS RN: 1047-16-1**D2687** 1g 5g*N,N'*-Dimethylquinacridone
CAS RN: 19205-19-7**D3227** 1g*N,N'*-Dimethylquinacridone
(purified by sublimation)
CAS RN: 19205-19-7**D4780** 200mg 1g*N,N'*-Dibutylquinacridone
CAS RN: 99762-80-8**D4697** 200mg 1g5,12-Dibutyl-1,3,8,10-tetramethylquinacridone
CAS RN: 850815-10-0**B5149** 200mg 1g9,10-Bis[*N*-(*p*-tolyl)anilino]-anthracene
CAS RN: 190974-21-1**B4965** 200mg 1g9,10-Bis[*N*-(*m*-tolyl)anilino]-anthracene
CAS RN: 189263-81-8**B4966** 200mg 1g9,10-Bis[*N,N*-di(*p*-tolyl)-amino]anthracene
CAS RN: 177799-16-5

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

Адрес: <https://tci.nt-rt.ru/> || эл.почта: tic@nt-rt.ru