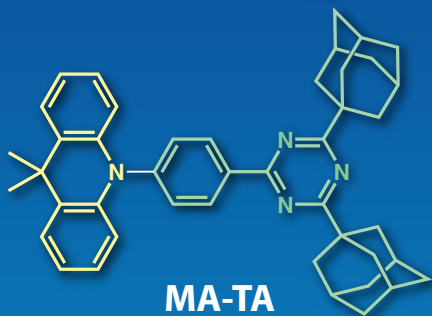


New

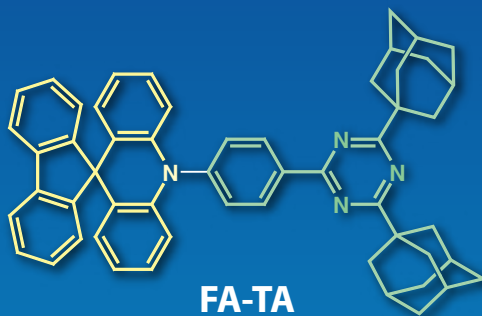
MATERIALS



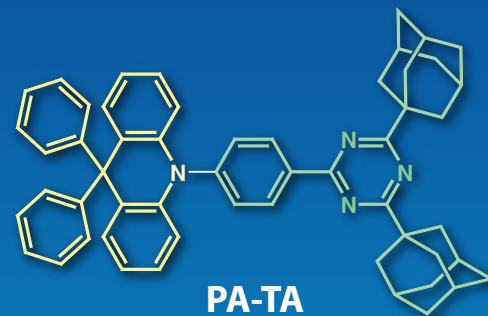
Solution-Processable Thermally Stable Deep-Blue TADF Materials



MA-TA
200mg
[D5745]



FA-TA
200mg
[D5747]



PA-TA
200mg
[D5746]

— Donor
— Acceptor

Advantages

- Highly efficient deep-blue TADF emitters
- Highly soluble in non-halogenated solvent
- High thermal stability
- Highly purified by sublimation (>99%)
- High external quantum efficiency (EQE)

Physical Properties

*Solution-processed OLEDs

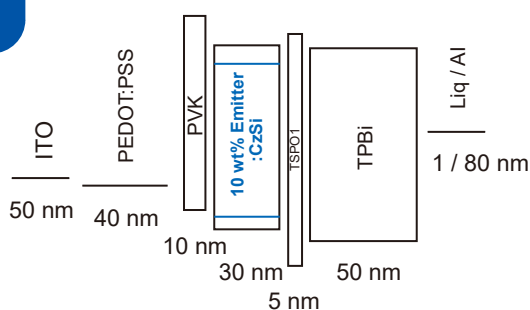
	MA-TA	FA-TA	PA-TA
T_g [°C]	147	207	186
T_d [°C]	428	480	468
HOMO [eV]	-5.86	-5.91	-6.00
LUMO [eV]	-2.96	-2.96	-2.99
E_g [eV]	2.90	2.95	3.01
$\lambda_{em, max}$ [nm]*	465	454	448
EQE _{max} [%]*	22.1	11.2	6.7
CIE(x, y)*	(0.15, 0.19)	(0.15, 0.13)	(0.15, 0.10)

Reference Y. Wada, S. Kubo, H. Kaji, *Adv. Mater.* **2018**, *30*, 1705641.

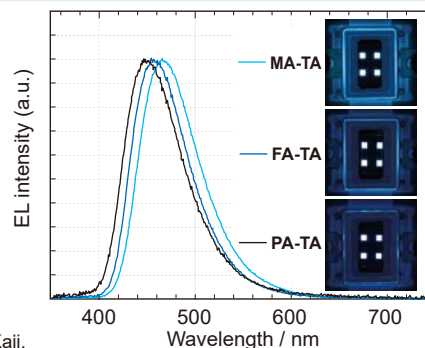


MA-TA, FA-TA, PA-TA
Toluene Solution (10mg/mL)
with UV Irradiation

Application



*These data are provided by Prof. Hironori Kaji.



These products were commercialized by collaboration with Prof. Hironori Kaji at Institute for Chemical Research, Kyoto University.

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