

Table S3. Organic compounds.

Compound/Coreactant^a	Emitting Species	Reference(s)
ABEI/H ₂ O ₂	ABEI	254
Acenaphthalene	Acenaphthalene	178
Acridinium Esters	Acridinium Esters	203
Anthracene – TMPD(Cross R)	Anthracene	5
Aryl derivatives of N,N-dimethylaniline	Complexes	474
Aryl derivatives of isobenzofurans and indoles	Complexes	475
BADE/H ₂ O ₂	BADE	476
Binaphthyl	Binaphthyl	471
Bis(2,4,6-trichlorophenyl)peroxyoxalate	Complex	477
Chrysene	Chrysene	177
Coronene	Coronene	177
Cyclic hydrazides in a micellar medium	Cyclic Hydrazides	180
Decaphenylnaphthalene (DecPA)	decPA	180
9,10-diphenylanthracene (DPA)	DPA	2,126,172-174,205
DPA – 1,4-dihydropyridines (Cross R)	DPA	176
DPA – TMPD(Cross R)	DPA	182
DPA – halogen ions(Cross R)	DPA	183
DPA – 9,10-dichloro-9,10-dihydro-9,10-DPA(Cross R)	DPA	184
Diphenylanthracene in scintillator dye melts	DPA	126
DPAS/TPrA	DPAS	198
DPAS/S ₂ O ₈ ²⁻	DPAS	198
TCPO/C ₂ O ₄ ²⁻ /DPA(Cross R)	DPA	196
1,8-diphenyl-1,3,5,7-octatetracene	1,8-diphenyl-1,3,5,7-octatetracene	177
Donor-substituted polyaromatic hydrocarbons	PAHs	179
DPBF	DPBF	478,479
DPBF-2	DPBF-2	479
DPBF-3	DPBF-3	478,479
DPBF-4	DPBF-4	480
Fluoroanthene	Fluoroanthene	177
[(q)(qH)Li] _x /TPrA	[(q)(qH)Li] _x	246
[(q)(qH)Li] _x /TPrA	[(q)(qH)Li] _x	246
[(Meq)(MeqH)Li] _x /TPrA	[(Meq)(MeqH)Li] _x	246
[(Meq)(MeqH)Li] _x /TPrA	[(Meq)(MeqH)Li] _x	246

Fluoranthrene-10-methylphenothiazine(Cross R)	Fluoranthrene	190
H ₂ MPy ₃ ,4DMPP/TPrA	H ₂ MPy ₃ ,4DMPP	120
Heptamethine cyanine dye/TPrA	Dye	481
Indole/tryptophan	Indole	482
Indole/H ₂ O ₂	Indole	482
Laser Dyes (e.g., coumarin – 2)	Dye	483
Luciferase	Luciferase	484
Lucigenin	Lucigenin	239,240,245,284
Lucigenin/Riboflavin(Cross R)	Lucigenin	241
Lucigenin-Hemin/H ₂ O ₂	Hemin	243
Luminol	3-aminophthalate	206,475,477,484,486
Luminol/H ₂ O ₂	3-aminophthalate	209-234
Luminol derivatives/H ₂ O ₂	Luminol decomposition products	225-228
Luminol/H ₂ O ₂ enhanced by CoTSPc	3-aminophthalate	235
Luminol at a gold-nanorod-modified gold electrode.	3-aminophthalate	237
Luminol/H ₂ O ₂ at a Cu/Zn alloy galvanic cell	3-aminophthalate	238
Luminol in DMSO at a polycrystalline gold electrode		236
MCLA	MCLA	255
MEH-PPV polymer/TPrA	MEH-PPV	200
1-methyl-2,5-diphenylindene	Complex.	486
MFPA/ H ₂ O ₂	MFPA	242
10-MP – fluoranthene(Cross R)	Fluoranthene	190,206,250
10-MP – radical anions(Cross R)	10-MP	252
Octaphenylanthracene (OPN)	OPN	180
PDI	PDI	206
Peralenitetetracarboxylic diimide	Complex	206
perylene dicarboxylic imide (PI)	PI	206
Perylene dimer salt (Pe ₂ ClO ₄)	Pe ₂ ClO ₄	487-488
perylene tetra carboxylic diimide (PDI)	PDI	206
Perylene (PE) – various aromatic compounds(Cross R)	Aromatic compounds	192
PE – pyrene (PY) (Cross R)	(PE-PY) Exciplex	193-194
Phenanthrene	Phenanthrene	175
9-phenylanthracene	9-phenylanthracene	177
Phenothiazene	Phenothiazene	177
Polyaromatic Hydrocarbons/persulfate	PAHs	197
poly(9,9-dioctylfluorene) polymer	polymer	201

Poly[distyrylbenzene- <i>b</i> -(ethylene oxide) ₁₂]	polymer	248
Poly[distyrylbenzene- <i>b</i> -(ethylene oxide) ₁₆]	polymer	248
Poly(vinyl-9,10-diphenylanthracene) polymer	Polymer	199
Pyrene	Pyrene	176
Pyrene-phenothiazine-substituted peptides	Peptide	249
QDI	QDI	206
quaterrylenecarboxylic diimide (QDI)	QDI	206
Rubrene (RUB)	RUB	126,172,488
RUB - TMPD(Cross R)	RUB	185
RUB-amines, H ₂ O or DMF(Cross R)	RUB	186
Rubrene (RUB) in scintillator dye melts	RUB	126
p-benzoquinone - rubrene(Cross R)	rubrene	5
Rhodamine 6G - Rubrene(Cross R)	-----	483
Rhodamine 6G – DPA(Cross R)	Both compounds.	483
Silole-based chromophores	Silole Chromophores	204
SPBA/H ₂ O ₂	SPBA	490
terrylenetetra-carboxylic diimide (TDI)	TDI	206
Tetracene – TMPD(Cross R)	Tetracene	187
Aromatic Hydrocarbons – tetraphenylporphins(Cross R)	Hydrocarbons	188
Aromatic hydrocarbons – tetrathiafulvalene(Cross R)	Hydrocarbons	189
Thiamine (vitamin B1)	Thiamine	195
Thiamine – Rhodamine B(Cross R)	Rhodamine B	208
Thianthrene – 2,4-diphenyl-1,3,4-oxadiazole(Cross R)	Thianthrene	191
Thianthrene – PPD(Cross R)	Thianthrene	191
1-THCOOH/TPrA	2-THCOOH	198
2-THCOOH/TPrA	2-THCOOH	198
TTF – anthracene(Cross R)	Anthracene	189
TPP – TMPD(Cross R)	TPP	5
TPP	TPP	5
<i>trans</i> -stilbene derivative	Complex	212
Tricarbocyanine dye IR125	IR 125	481
Tricarbocyanine dye IR144	IR 144	481,491

Compound abbreviations are listed at the end of the article in section 6. ^aIf no coreactant is listed then ECL was generated via annihilation. Cross-R refers to an ECL cross reaction mechanism.