

Table S4 The fire performances of PA-DAD.

Flame retardant	pHRR(kW/m ²)) reduction	THR(MJ/m ²) reduction	TSP(m ²) reduction	pCOP(g/s) reduction	Ref.
Mo-MOF	44.7%	2.5%	25.1%	42.9%	[1]
PTDOB	47.1%	22.3%	17.3%	33.3%	[2]
ZIF-8@HCCP	56.2%	13.7%	21.8%	45.7%	[3]
CuPP	51.7%	16.3%	52.4%	47.3%	[4]
EHPP@PA	64.0%	16.0%	21.0%	45.0%	[5]
FePP	42.6%	26.3%	33.3%	49.8%	[6]
P-KC	61.9%	32.8%	27.3%	69.1%	[7]
IL@NH ₂ -MIL-101(A l)	51.2%	14.4%	13.1%	44.8%	[8]
SZF	64.0%	48.2%	48.3%	51.6%	[9]
LMP	45.0%	42.0%	28.2%	45.9%	[10]
PPGO	42.0%	22.0%	24.3%	45.2%	[11]
PMAIL	31.0%	1.0%	15.4%	22.5%	[12]
ZCS	46.8%	21.7%	19.3%	46.2%	[13]
TA-MoS ₂	38.1%	29.6%	32.6%	34.9%	[14]
a-SEP@LDH	21.0%	/	16.1%	32.4%	[15]
DMMH	54.5%	35.1%	38.1%	21.1%	[16]
UiO66-PDA-PBA	50.0%	/	22.0%	66.0%	[17]
NiPP	35.2%	20.2%	16.2%	45.8%	[18]
PA-DAD	72.2%	28.3%	49.5%	66.5%	This work

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