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Possible pore size effects on the state of tris(8-quinolinato)
aluminum(III) (Alq_3) adsorbed in mesoporous silicas and their
temperature dependence

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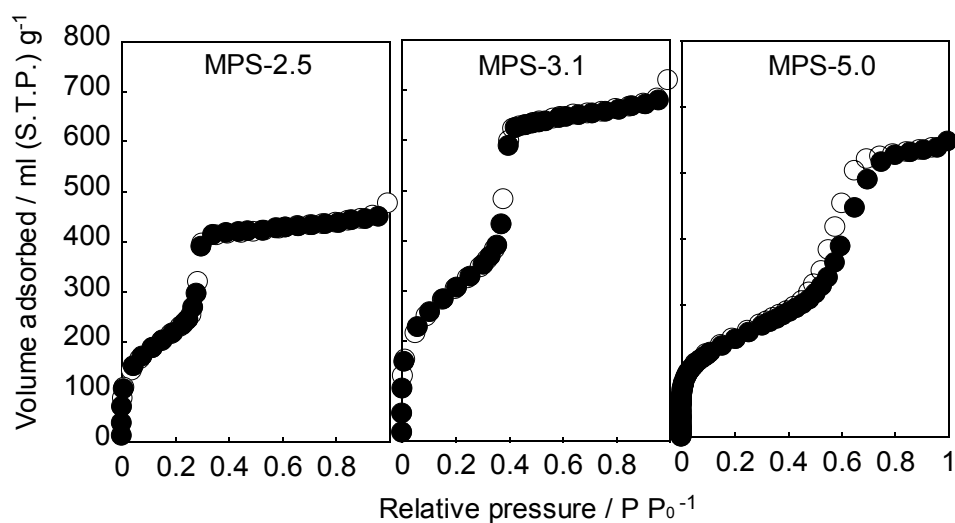


Figure S1. Nitrogen adsorption (closed circles) and desorption (open circles) isotherms of MPS-2.5, MPS-3.1 and MPS-5.0.

Table S1. BET surface area, porosity and pore volume of MPS-2.5, MPS-3.1 and MPS-5.0.

	$S_{\text{BET}} / \text{m}^2 \text{g}^{-1}$	$2r_{\text{BJH}} / \text{nm}$	$V / \text{ml g}^{-1}$
MPS-2.5	975	2.5	0.61
MPS-2.5	1091	3.1	0.85
MPS-5.0	519	5.0	0.65

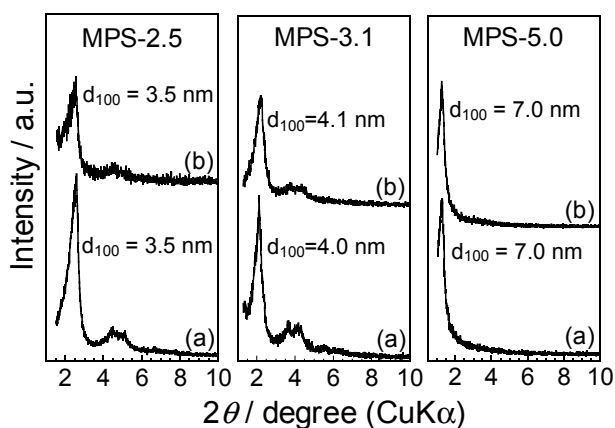


Figure S2. XRD patterns of MPS-2.5, MPS-3.1 and MPS-5.0 (a) before and (b) after the adsorption of Alq_3 (the amount of Alq_3 per the BET surface area: 207, 279 and 91 $\text{nmol} \cdot (\text{m}^2 \text{MPS})^{-1}$ for MPS-2.5, MPS-3.1 and MPS-5.0, respectively).

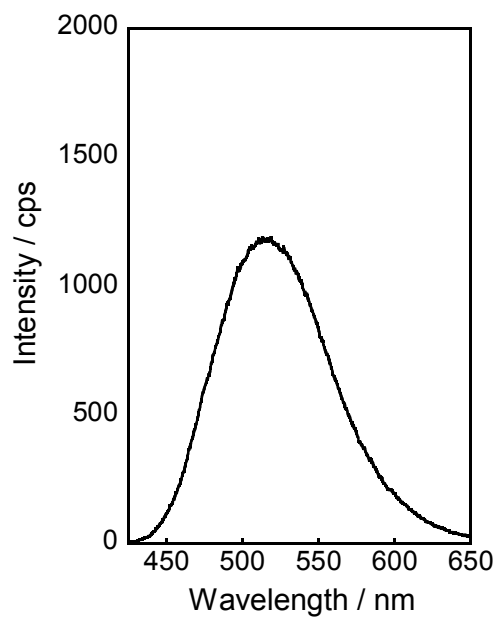


Figure S3. Photoluminescence spectrum of the Alq₃ in ethanol.

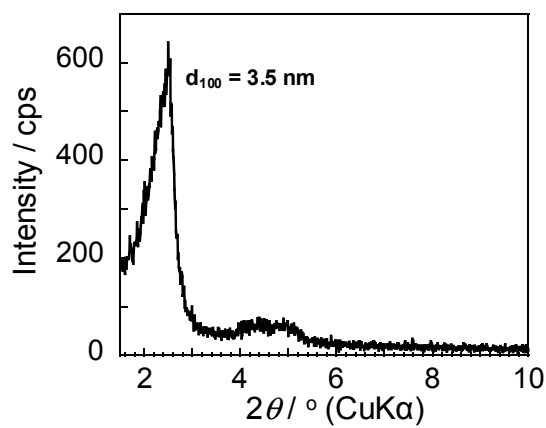


Figure S4. XRD pattern of the Alq₃ adsorbed in MPS-2.5 after heat treatment at 450 K.