Lead molybdate – a promising material for optoelectronics and photocatalysis

ELECTRONIC SUPPLEMNTARY INFORMATION

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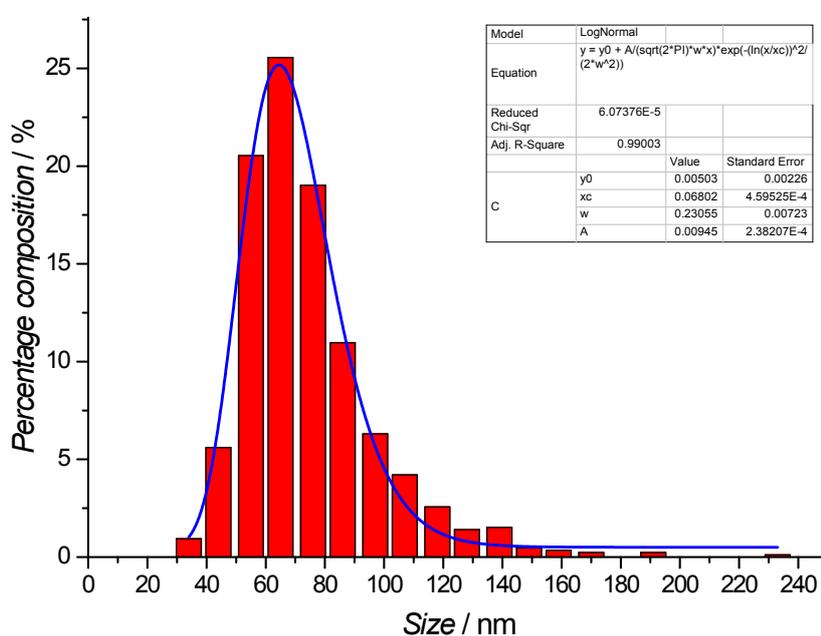
Fig. S1. Grain size distribution of PbMoO$_4$, sample **1a**.

Fig. S2. Grain size distribution of PbMoO$_4$, sample **1b**.

| Model	LogNormal		
Equation	y = y0 + A/(sqrt(2*PI)*w*x)*exp(-(ln(x/xc))^2/ (2*w^2))		
Reduced Chi-Sqr	1.01138E-4		
Adj. R-Square	0.98124		
		Value	Standard Error
C	y0	0.00172	0.00315
	xc	0.04227	5.09278E-4
	w	0.2963	0.01284
	A	0.00657	2.27185E-4
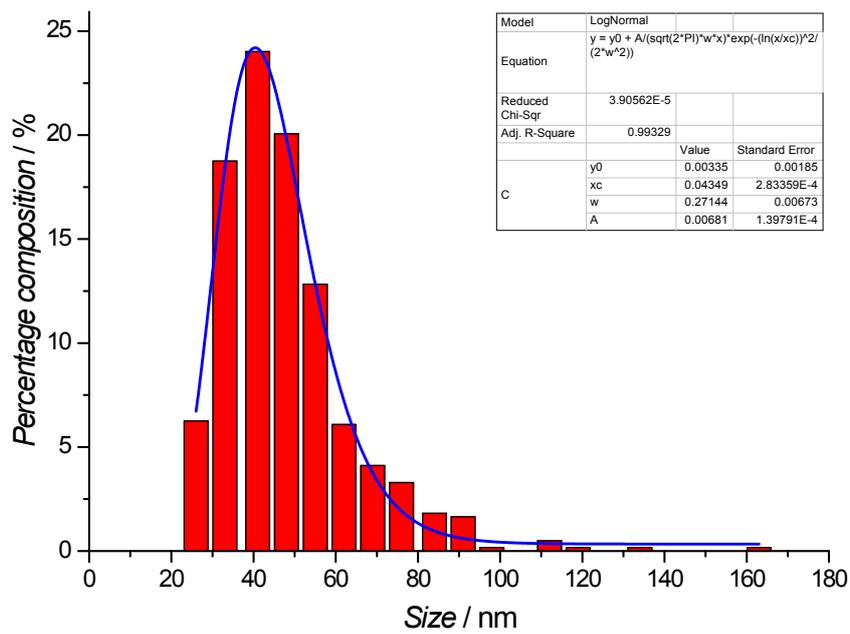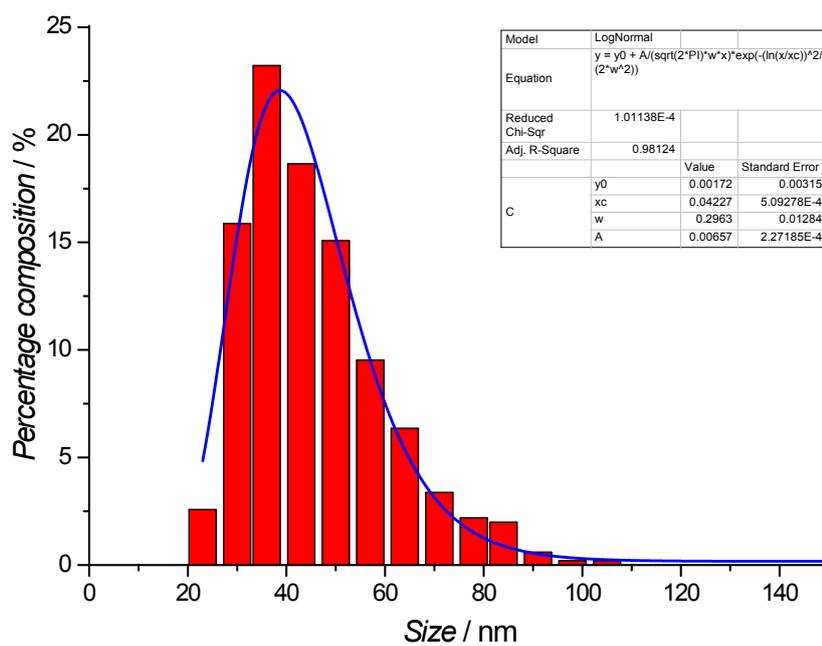
Fig. S3. Grain size distribution of PbMoO$_4$, sample **1c**.
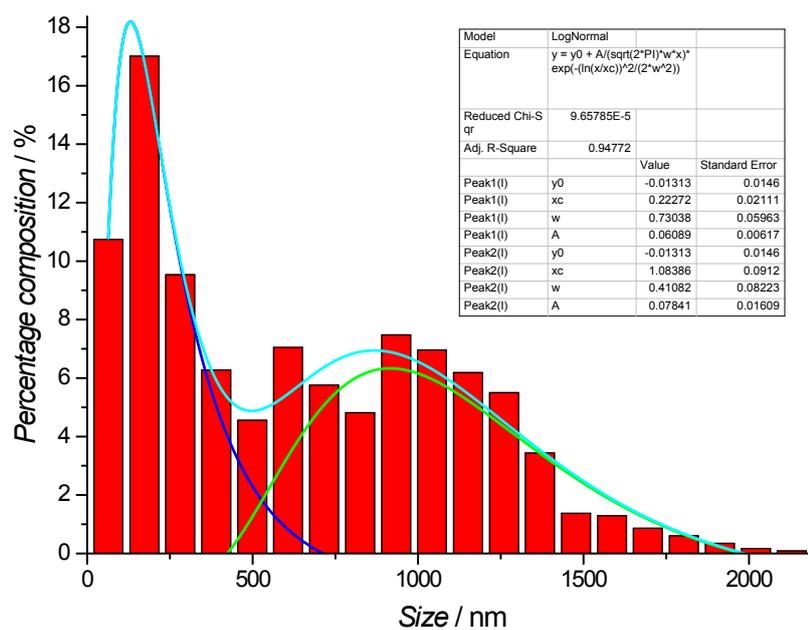
Fig. S4. Grain size distribution of PbMoO$_4$, sample **2a**.
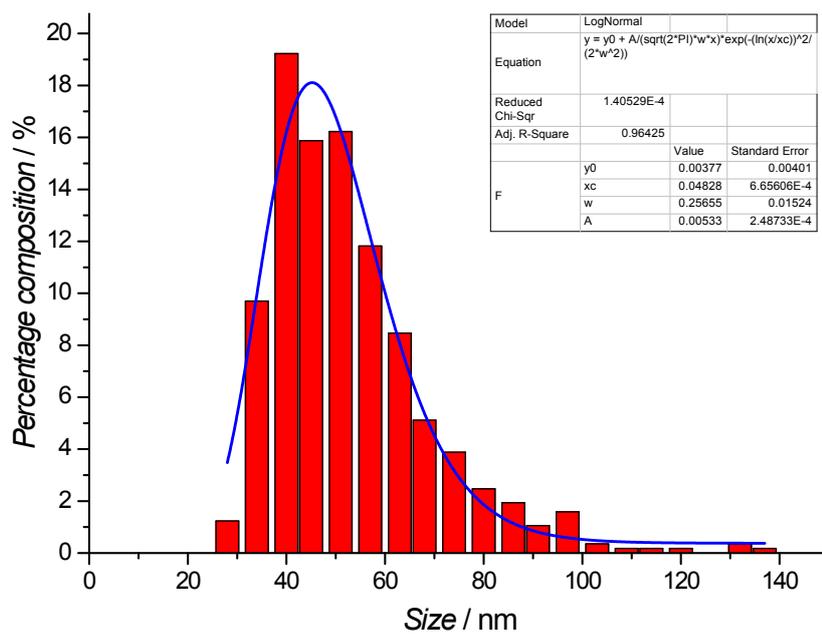
Fig. S5. Grain size distribution of PbMoO$_4$, sample **2b**.

Model	LogNormal		
Equation	$y = y_0 + A/(sqrt(2*PI)*w*x)*exp(-(ln(x/x_c))^2/ (2*w^2))$		
Reduced Chi-Sqr	1.27071E-4		
Adj. R-Square	0.9492		
		Value	Standard Error
F	y_0	0.00844	0.00436
	x_c	0.0464	7.46061E-4
	w	0.25401	0.01826
	A	0.00397	2.16034E-4
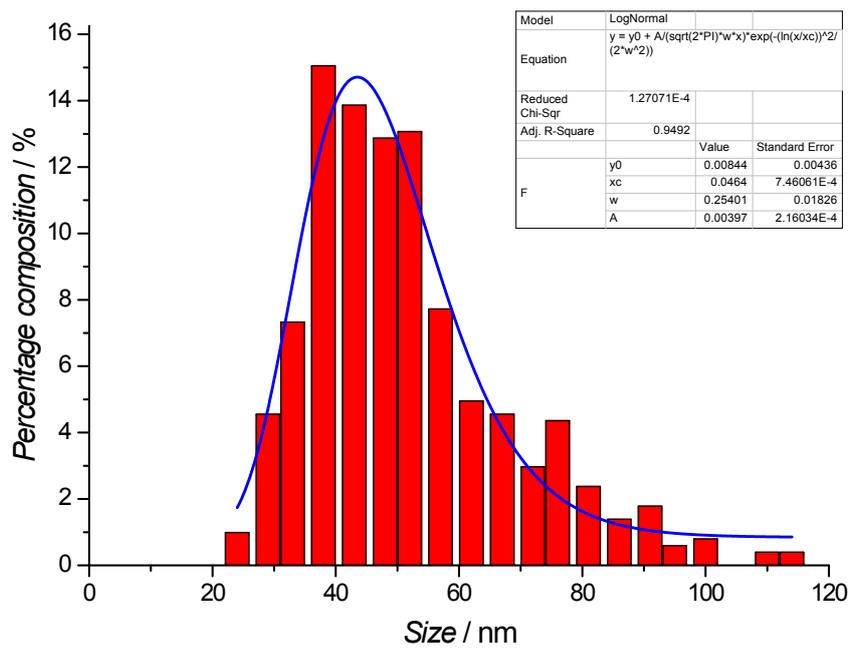
Fig. S6. Grain size distribution of PbMoO$_4$, sample **2c**.
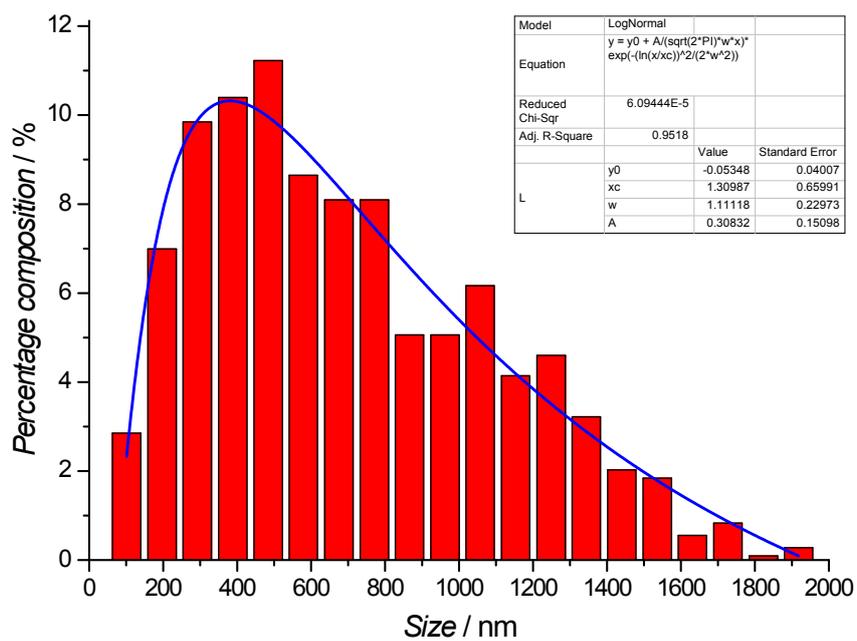
Fig. S7. Grain size distribution of PbMoO$_4$, sample **3a**.

Model	LogNormal		
Equation	y = y0 + A/(sqrt(2*PI)*w*x)* exp(-(ln(x/xc))^2/(2*w^2))		
Reduced Chi-Sqr	9.53052E-6		
Adj. R-Square	0.99406		
		Value	Standard Error
Peak1(L)	y0	-0.00264	0.00344
Peak1(L)	xc	0.32562	0.00837
Peak1(L)	w	0.40612	0.01979
Peak1(L)	A	0.04055	0.00146
Peak2(L)	y0	-0.00264	0.00344
Peak2(L)	xc	0.55726	0.01385
Peak2(L)	w	0.14536	0.02183
Peak2(L)	A	0.01041	0.00165
Peak3(L)	y0	-0.00264	0.00344
Peak3(L)	xc	0.87193	0.01977
Peak3(L)	w	0.2055	0.03586
Peak3(L)	A	0.01976	0.00139

Fig. S8. Grain size distribution of PbMoO$_4$, sample **3b**.

Model	LogNormal		
Equation	$y = y0 + A/(\text{sqrt}(2*PI)*w*x)*\exp(-(\ln(x/xc))^2/ (2*w^2))$		
Reduced Chi-Sqr	1.47141E-4		
Adj. R-Square	0.97643		
		Value	Standard Error
I	y0	0.00412	0.00356
	xc	0.04586	6.0773E-4
	w	0.2888	0.01426
	A	0.00793	3.14121E-4
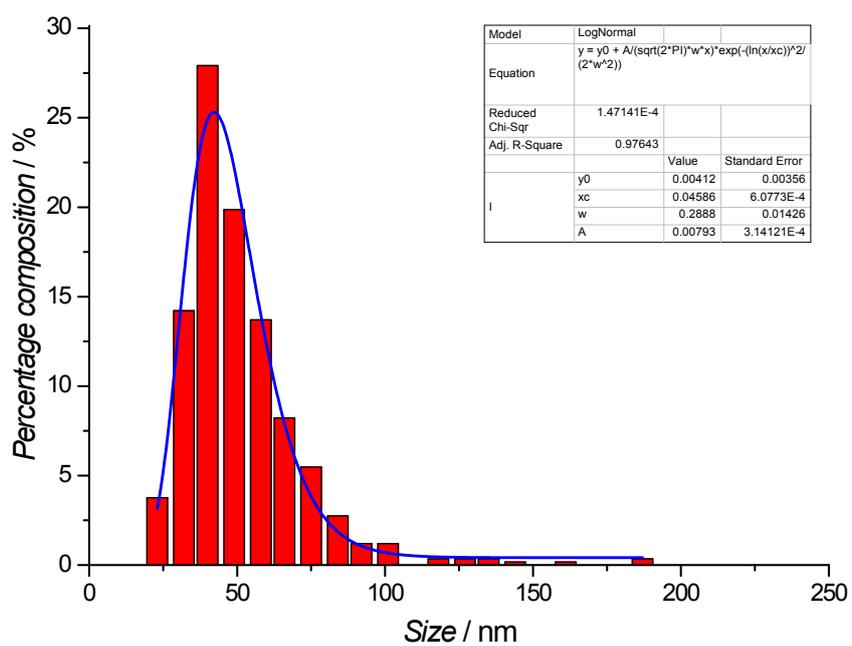
Fig. S9. Grain size distribution of PbMoO$_4$, sample **3c**.

Model	LogNormal		
Equation	y = y0 + A/(sqrt(2*PI)*w*x)* exp(-(ln(x/xc))^2/(2*w^2))		
Reduced Chi-Sqr	6.84451E-5		
Adj. R-Square	0.96591		
		Value	Standard Error
O	y0	-0.02528	0.0122
	xc	0.99292	0.09355
	w	0.70878	0.06805
	A	0.20084	0.02362
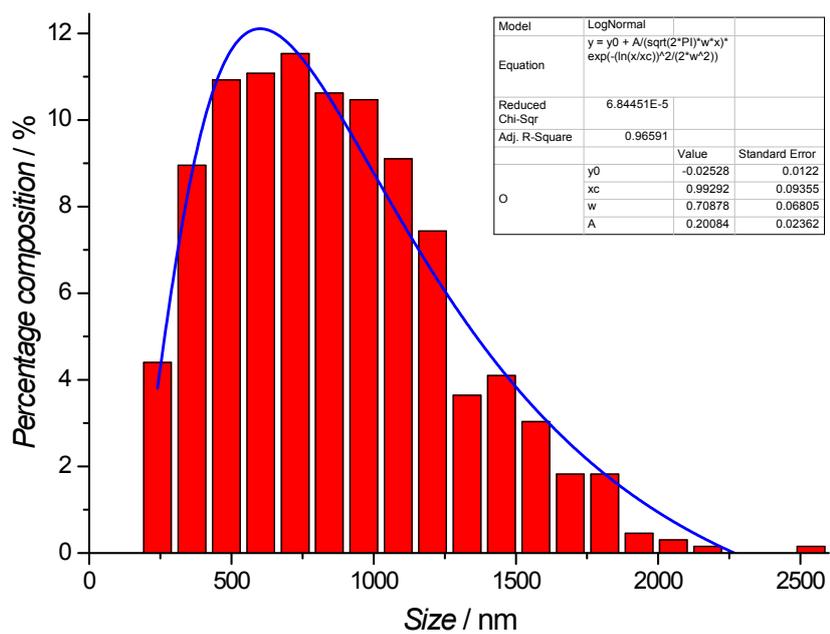
Fig. S10. Grain size distribution of $PbMoO_4$, sample **4a**.

| Model	LogNormal		
Equation	y = y0 + A/(sqrt(2*PI)*w*x)* exp(-(ln(x/xc))^2/(2*w^2))		
Reduced Chi-Sqr	5.22468E-5		
Adj. R-Square	0.98454		
		Value	Standard Error
Peak1(P)	y0	-0.00822	0.00956
Peak1(P)	xc	0.1032	0.00874
Peak1(P)	w	0.61897	0.03987
Peak1(P)	A	0.03903	0.00149
Peak2(P)	y0	-0.00822	0.00956
Peak2(P)	xc	0.55715	0.0515
Peak2(P)	w	0.53701	0.12032
Peak2(P)	A	0.04495	0.00741
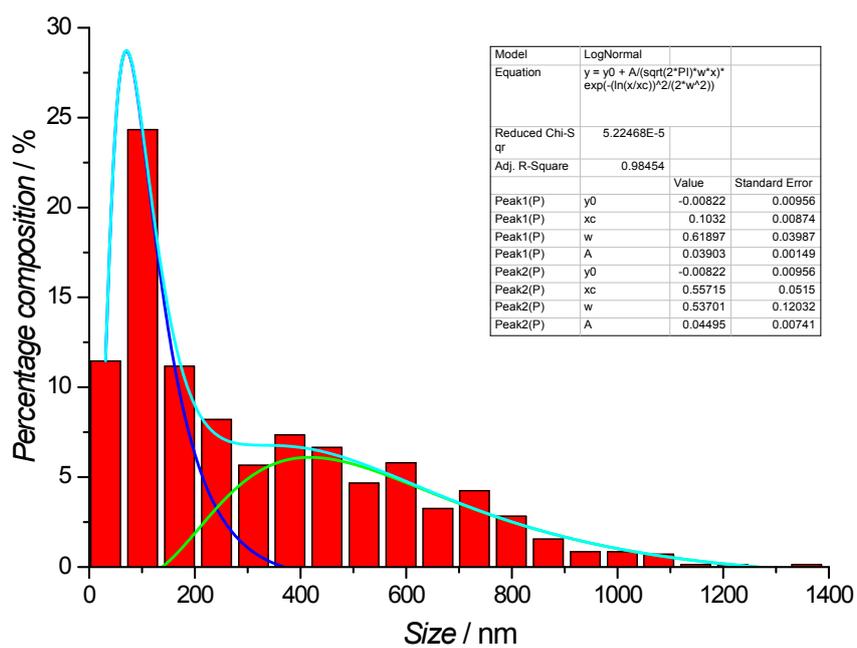
Fig. S11. Grain size distribution of PbMoO$_4$, sample **4b**.
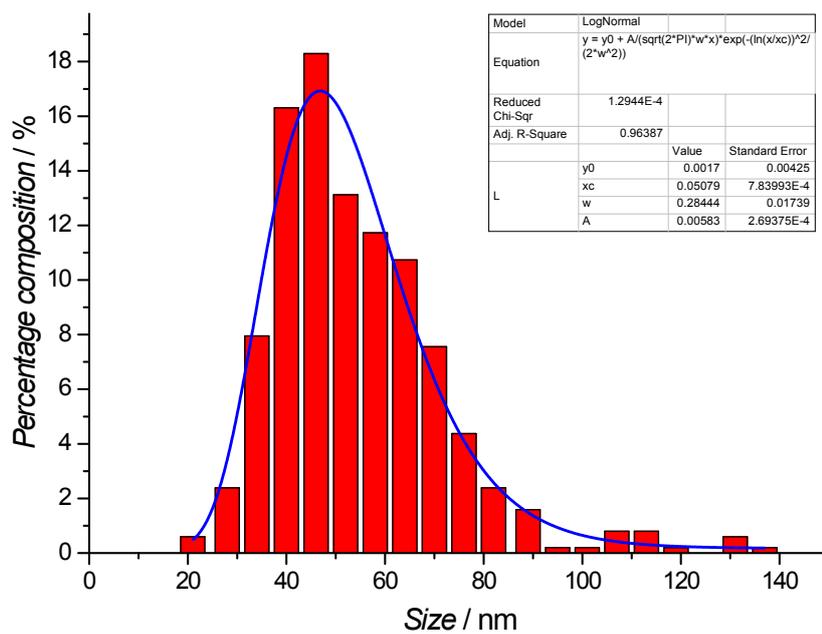
Fig. S12. Grain size distribution of PbMoO$_4$, sample **4c**.