

Materials List for:

Facile Synthesis of Colloidal Lead Halide Perovskite Nanoplatelets via Ligand-Assisted Reprecipitation

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Materials

Name	Company	Catalog Number	Comments
Equipment			
365nm fiber-coupled LED	Thorlabs	M365FP1	Excitation source (Photoluminescence)
Avantes fiber-optic spectrometer	Avantes	AvaSpec-2048XL	Photoluminescence detector (Photoluminescence spectra)
Cary 5000	Agilent Technologies		UV-Vis spectrophotometer (Absorption spectra)
FEI Tecnai G2 Spirit Twin TEM	FEI Company		Transmission electron microscopy (TEM) operating at 120kV
PANalytical X'Pert Pro MPD	Malvern Panalytical		X-ray diffraction (XRD) operating at 45 kV and 40 mA with a copper radiation source.
Materials			
n-butylammonium bromide (BABr)	GreatCell Solar	MS305000-50G	
n-butylammonium chloride (BACl)	Fisher Scientific	B071025G	butylamine hydrochloride
n-butylammonium iodide (BAI)	Sigma-Aldrich	805874-25G	
N,N-dimethylformamide (DMF)	Sigma-Aldrich	227056-1L	Anhydrous, 99.8%
n-dodecylammonium bromide (DDABr)	GreatCell Solar	MS300880-05	
formamidinium bromide (FABr)	GreatCell Solar	MS350000-100G	
formamidinium iodide (FAI)	GreatCell Solar	MS150000-100G	
n-hexylammonium bromide (HABr)	GreatCell Solar	MS300860-05	
lead bromide (PbBr ₂)	Sigma-Aldrich	398853-5G	.99.999%
lead chloride (PbCl ₂)	Sigma-Aldrich	268-690-5G	98%
lead iodide (PbI ₂) solution	Sigma-Aldrich	795550-10ML	0.55M in DMF
methylammonium bromide (MABr)	GreatCell Solar	MS301000-100G	
methylammonium iodide (MAI)	GreatCell Solar	MS101000-100G	
n-octylammonium bromide (OABr)	GreatCell Solar	MS305500-50G	
n-octylammonium chloride (OACl)	Fisher Scientific	O04841G	octylamine hydrochloride
n-octylammonium iodide (OAI)	GreatCell Solar	MS105500-50G	
iso-pentylammonium bromide (i-PABr)	GreatCell Solar	MS300710-05	
toluene	Sigma-Aldrich	244511-1L	Anhydrous, 99.8%