

Materials List for

# Localized Bathless Metal-Composite Plating via Electro stamping

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jove.com/video/61484

## Materials

Name	Company	Catalog Number	Comments
37% M Hydrochloric Acid (aq)	SigmaAldrich	320331-500ML	corrosive - handle in fume hood
70% Nitric Acid (aq)	SigmaAldrich	438073-500ML	corrosive - handle in fume hood
Barium magnesium aluminate, europium doped (s)	SigmaAldrich	756512-25G	fine powder
Boric Acid (s)	SigmaAldrich	B6768-500G	toxic
Cotton Swab	Q-tips	Q-tips Cotton Swabs	
ImageJ	National Institutes of Health	IJ 1.46r	free software
Nickel (II) chloride hexahydrate (s)	SigmaAldrich	223387-500G	toxic
Nickel (II) sulfate hexahydrate (s)	SigmaAldrich	227676-500G	toxic
Nickel foil (s)	AliExpress	Ni99.999	
Nitrile gloves	Fisher Scientific	19-149-863B	
nylon membrane (s)	Tisch Scientific	RS10133	
Optical Microscope equipped with FTIC filter (470 ± 20 nm)	Nikon	Eclipse 80i	
Plastic Wrap	Fisher Scientific	22-305654	
Porcelain Mortar	Fisher Scientific	FB961A	
Porcelain Pestle	Fisher Scientific	FB961K	
Potassium Hydroxide (s)	SigmaAldrich	221473-25G	corrosive
Potentiostat with platinum wire	Gamry Instruments	1000E	
Scoopula	Fisher Scientific	14-357Q	
Spectrofluorometer	Photon Technology International	QM-40	
Strontium aluminate, europium and dysprosium doped (s)	GloNation	756539-25G	powder
Variable linear DC power supply	Tekpower	TP3005T	
Yttrium oxide, europium doped (s)	SigmaAldrich	756490-25G	fine powder