

Materials List for:

Preparation and Use of Photocatalytically Active Segmented Ag|ZnO and Coaxial TiO₂-Ag Nanowires Made by Templated Electrodeposition

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Materials

Name	Company	Catalog Number	Comments
Silver nitrate (AgNO ₃)	Acros Organics	419351000	99+%
Boric acid (H ₃ BO ₃)	Sigma-Aldrich	202878-500G	99.99%
Nitric acid (HNO ₃)	Acros Organics	124660010	65%
Zinc nitrate hexahydrate (Zn(NO ₃) ₂ ·6H ₂ O)	Sigma-Aldrich	228737-500G	98%
Dichloromethane (CH ₂ Cl ₂)	Merck (Boom)	51006050100	99%
Titanium oxysulfate (TiOSO ₄)	Sigma-Aldrich	333980-500G	Synthesis grade
Hydrogen peroxide (H ₂ O ₂)	Sigma-Aldrich	349887-500ML	35%
Nitric acid (HNO ₃)	Acros Organics	124660010	65%
Potassium nitrate (KNO ₃)	Acros Organics	P/6040/60	>99%
Sodium hydroxide (NaOH)	Sigma-Aldrich	20606-0025	>98%
Methanol (CH ₃ OH)	Merck	1060121000	Dried ≥99.9%
Polycarbonate membranes, 200 nm	Fisher Scientific	09-300-61	
Anopore AAO membranes, 200 nm	VWR	514-0523	
Sputtering system	Perkin-Elmer	Model 2400	
Microscope glass slides (Menzel)	VWR	631-0704	
Autolab potentiostat with:	Metrohm-Autolab	PGSTAT 128N	
- Pt sheet counter electrode	PT.SHEET		
- Ag/AgCl in 3 M KCl reference electrode	60,733,100		
Polypropylene Nunc centrifuge tubes	Fisher Scientific	12-565-286C	
Centrifuge	Hermle	Z36HK	
Pd-based hydrogen sensor	Kebaili	KHS-100	
4x 15 W Hg lamp UV source	Philips	Philips original home solaria	