

Materials List for

A Machine-Vision Approach to Transmission Electron Microscopy Workflows, Results Analysis and Data Management

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Materials

Name	Company	Catalog Number	Comments
ARM200F CFEG	JEOL		Transmission Electron Microscope (200 kV)
AXON DOSE Calibration Holder	Protochips, Inc.	AXA-FC-TFS	Dose calibration and management hardware package for ThermoFisher ScientificTEM
AXON DOSE Software: Version 10.6.5.3	Protochips, Inc.	AX-MOD-DOSE-01-1YR	Dose calibration and management software
AXON Studio Software: Version 10.6.5.3	Protochips, Inc.	No Part Number. Available to download at success.protochips.com	Offline analysis software for AXON datasets. A free copy of the AXON Studio software is available for download at: success.protochips.com
AXON Synchronicity Core	Protochips, Inc.	AXON-CORE	Hardware component of the synchronization software.
AXON Synchronicity Software: Version 10.6.5.3	Protochips, Inc.	AX-MOD-SYNCPRO-01-1YR	Synchronization software
Fusion In-Situ Heating E-chip	Protochips, Inc.	E-FHDC-VO-10	Sample Support E-chip with carbon film. Used with in situ heating system
Fusion Select In Situ Heating System	Protochips, Inc.	FFAD-6200-EXP	In-situ MEMs heating system for ThermoFisher Scientific TEM.
Gold(III) chloride (50% gold basis) hydrate 50790	Sigma Aldrich	27988-77-8	Used to prepare Au/FeOx nanocatalyst. Coprecipitation synthesis procedure followed in C. Sze et al. Materials Letters. 36 (1–4), 11–16 (1998)
Iron (III) Oxide 310050 (Fe ₂ O ₃)	Sigma Aldrich	1309-37-1	Used to prepare Au/FeOx nanocatalyst. Coprecipitation synthesis procedure followed in C. Sze et al. Materials Letters. 36 (1–4), 11–16 (1998)
Titan ChemiSTEM	ThermoFisher Scientific		Transmission Electron Microscope (300 kV)
Zeolite ZSM-5	Zeolyst	CBV 8014	Nanocatalyst sample: 80 SiO ₂ /Al ₂ O ₃ Mole Ratio