

Materials List for:

# In Depth Analyses of LEDs by a Combination of X-ray Computed Tomography (CT) and Light Microscopy (LM) Correlated with Scanning Electron Microscopy (SEM)

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## Materials

| Name                               | Company          | Catalog Number    | Comments                                                |
|------------------------------------|------------------|-------------------|---------------------------------------------------------|
| X-ray Computer Tomograph           | General Electric | not applicable    | type: nanotom s research edition                        |
| acquisition software               | General Electric | not applicable    | phoenix Datas  x2 acquisition and corresponding manual  |
| reconstruction software            | General Electric | not applicable    | phoenix Datas  x2 acquisition and corresponding manual  |
| rendering software                 | Volume Graphics  | not applicable    | VGStudio Max 2.2 and corresponding manual               |
| grinder (manual)                   | Struers          | 5296327           | Labopol 21                                              |
| sample holder                      | Struers          | 4886102           | UniForce                                                |
| grinder (automated)                | Struers          | 6026127           | Tegramin 25                                             |
| epoxy resin/hardener               | Struers          | 40200030/40200031 | Epoxy fix resin / Epoxy fix hardener                    |
| Ethanol                            | Struers          | 950301            | Kleenol                                                 |
| Light Microscope                   | Zeiss            | not applicable    | Axio Imager M2m                                         |
| Electron Microscope                | Zeiss            | not applicable    | Sigma                                                   |
| CLEM software                      | Zeiss            | not applicable    | Axio Vision SE64 Rel.4.9 and corresponding manual       |
| CLEM sample holder                 | Zeiss            | 432335-9101-000   | Specimen holder CorrMic MAT Universal B                 |
| SEM Adapter for CLEM sample holder | Zeiss            | 432335-9151-000   | SEM Adapter for Specimen holder CorrMic MAT Universal B |
| sputter coater                     | Quorum           | not applicable    | Q150TES                                                 |
| EDS detector                       | Röntec           | not applicable    | X-Flash 1106                                            |
| solder                             | Stannol          | 535251            | type: HS10                                              |
| LED                                | Lumileds         | not applicable    | LUXEON Rebel warm white, research sample                |