Article

Electrophoresis Assembly of Novel Superhydrophobic Molybdenum Trioxide (MoO3) Films with Great Stability

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**Table S1.** The detailed data of XRD main peaks for schistose MoO3 powders and SMFs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(2θ)**  **2-Theta** | **The diffraction plane** | **h** | **k** | **l** |
| 12.78 | 020 | 0 | 2 | 0 |
| 23.339 | 110 | 1 | 1 | 0 |
| 25.879 | 120 | 1 | 2 | 0 |
| 27.339 | 021 | 0 | 2 | 1 |
| 29.679 | 130 | 1 | 3 | 0 |
| 33.119 | 101 | 1 | 0 | 1 |
| 33.759 | 111 | 1 | 1 | 1 |
| 35.499 | 041 | 0 | 4 | 1 |
| 38.559 | 131 | 1 | 3 | 1 |
| 38.979 | 060 | 0 | 6 | 0 |
| 39.659 | 150 | 1 | 5 | 0 |
| 45.759 | 200 | 2 | 0 | 0 |
| 46.319 | 061 | 0 | 6 | 1 |
| 49.259 | 002 | 0 | 0 | 2 |
| 50.059 | 230 | 2 | 3 | 0 |
| 52.799 | 211 | 2 | 1 | 1 |
| 54.119 | 221 | 2 | 2 | 1 |
| 55.199 | 112 | 1 | 1 | 2 |
| 57.678 | 171 | 1 | 7 | 1 |
| 58.839 | 081 | 0 | 8 | 1 |
| 61.618 | 260 | 2 | 6 | 0 |
| 62.838 | 251 | 2 | 5 | 1 |
| 64.518 | 062 | 0 | 6 | 2 |
| 64.998 | 152 | 1 | 5 | 2 |
| 67.138 | 261 | 2 | 6 | 1 |
| 69.478 | 202 | 2 | 0 | 2 |
| 72.838 | 232 | 2 | 3 | 2 |
| 76.518 | 301 | 3 | 0 | 1 |
| 78.838 | 023 | 0 | 2 | 3 |

**Video S1: The immersion test process of** **SMFs into aqueous solution in 100 mL beaker, the surface of samples can’t be wetted suggesting the great superhydrophobicity of SMFs.**

**Video S2: The droplet impacting experiment of SMFs with a negligible angle or an almost flat state fixed by using a tweezer.**

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