Photoelectrochemical Performance of BiOI/TiO2 Nanotube Arrays (TNAS) p-n Heterojunction synthesized by SILAR-Ultrasonication-Assisted Methods

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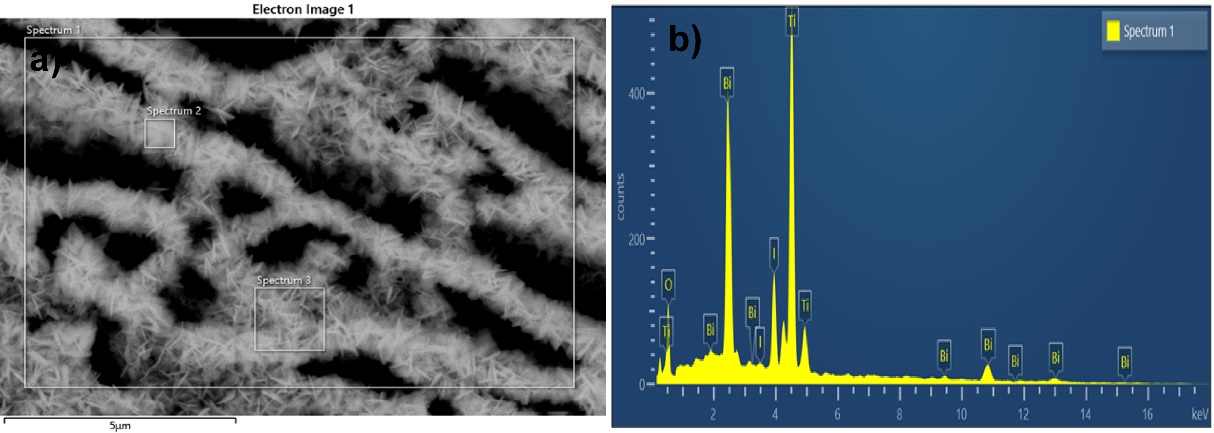


Figure S1. a) Electron image and b) EDX spectrum of BiOI/TNAs prepared with 7 mM of cationic and anionic precursors

Table S1. Composition of BiOI/TNAs prepared with 7 mM of cationic and anionic precursors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Line Type** | **Weight %** | **Weight % Sigma** | **Atomic %** |
| O | K series | 14.81 | 1.18 | 48.45 |
| Ti | K series | 32.18 | 0.77 | 35.16 |
| I | L series | 19.24 | 0.69 | 7.93 |
| Bi | M series | 33.77 | 0.99 | 8.46 |
| Total |  | 100.00 |  | 100.00 |

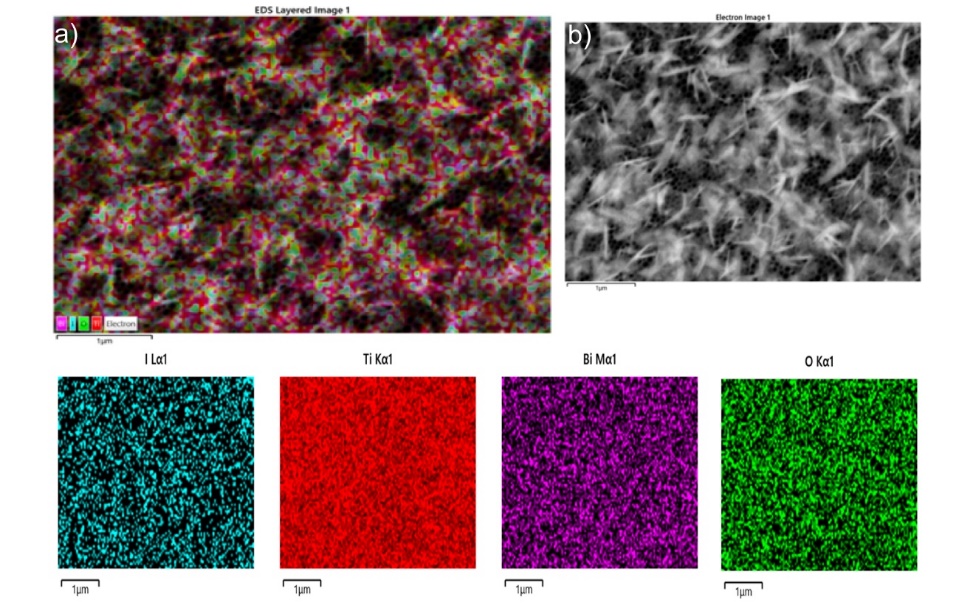


Figure S2. EDX mapping of BiOI/TNA prepared with 5 mM of cationic precursor and 3mM of anionic precursor a) EDX layer image and b) Electron image



Figure S3. EDX Spectra of BiOI/TNA prepared with 5 mM of cationic precursor and 3mM of anionic precursor

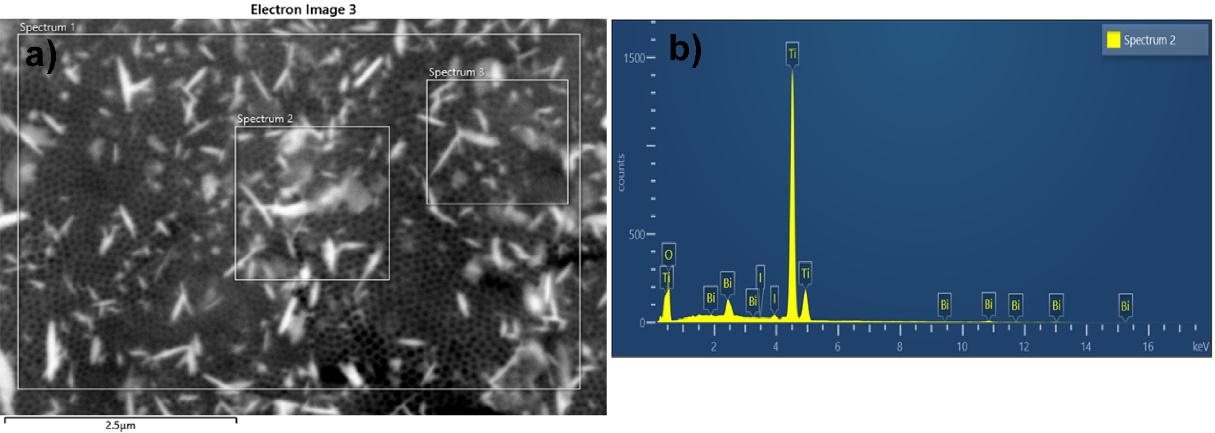


Figure S4. EDX Spectra of BiOI/TNA prepared with 1 mM of cationic and anionic precursor

Table S2. Composition of BiOI/TNAs prepared with 1 mM of cationic and anionic precursor

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Line Type** | **Weight %** | **Weight % Sigma** | **Atomic %** |
| O | K series | 39.81 | 1.07 | 68.40 |
| Ti | K series | 53.20 | 0.99 | 30.53 |
| I | L series | 1.79 | 0.25 | 0.39 |
| Bi | M series | 5.19 | 0.47 | 0.68 |
| Total |  | 100.00 |  | 100.00 |