Supplementary Material

Laser-Induced Chemical Liquid-phase Deposition Plasmonic Gold Nanoparticles on Porous Tio2 Film with Great PhotoelecTochemical Performance

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Table S1. The 2θ coordinates, d-space and *hkl*-indexes of TiO_2 phase.

2θ, °	d, Å	*h*	*k*	*l*
25.363	3.50889	1	0	1
37.046	2.42471	1	0	3
37.901	2.37194	0	0	4
38.66	2.32711	1	1	2
48.149	1.88833	2	0	0
52.087	1.75445	2	0	2
54.04	1.69557	1	0	5
55.193	1.66283	2	1	1
62.267	1.48983	2	1	3
62.854	1.47734	2	0	4
68.961	1.36065	1	1	6
70.465	1.33525	2	2	0
74.287	1.27573	1	0	7
75.261	1.26161	2	1	5
76.231	1.24795	3	0	1
78.895	1.21236	2	0	6
81.009	1.18597	0	0	8
82.384	1.16963	3	0	3
82.908	1.16356	2	2	4
83.382	1.15815	3	1	2

Table S2. The 2θ coordinates, d-space and *hkl*-indexes of Au phase

2θ, °	d, Å	*h*	*k*	*l*
38.147	2.35723	1	1	1
44.337	2.04142	2	0	0
64.502	1.4435	2	2	0
77.473	1.23102	3	1	1
81.621	1.17862	2	2	2

Table S3. The 2θ coordinates, d-space and *hkl*-indexes of SnO_2 (FTO) phase

2θ, °	**d, Å**	***h***	***k***	***l***
26.49	3.36207	1	1	0
33.734	2.65482	1	0	1
37.812	2.37734	2	0	0
38.819	2.31797	1	1	1
42.478	2.12636	2	1	0
51.563	1.77104	2	1	1
54.546	1.68104	2	2	0
57.556	1.60006	0	0	2
61.636	1.50356	3	1	0
62.343	1.4882	2	2	1
64.438	1.44478	1	1	2
65.69	1.42026	3	0	1
68.95	1.36084	3	1	1
70.944	1.32741	2	0	2
71.483	1.31871	3	2	0
74.097	1.27852	2	1	2
78.363	1.21925	3	2	1
80.787	1.18867	4	0	0
83.308	1.15898	2	2	2
83.822	1.15318	4	1	0
86.84	1.12069	3	3	0
89.339	1.09571	3	1	2
90.474	1.08489	4	1	1