**Table 3: Electrodeposition of AgPd alloys to the different amounts of charge (*Q*d) at different current densities**

**and *ω* = 1000 rpm from the solution: 0.001 M PdCl2 + 0.04 M AgCl + 0.1 M HCl + 12 M LiCl.**

**Dissolution (ALSV) in the solution 0.1 M HCl + 12 M LiCl at *ω* = 1000 rpm with a sweep rate of 1 mV s-1.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | *Q*d (C cm-2) | *Q*(Pd)ALSV  (C cm-2) | *Q*(Ag)ALSV  (C cm-2) | *η*j (%)  *Q*ALSV/*Q*d | ALSV | | | XPS | | EDS | | *Q*(UP)ALSV  (%) |
| at.% Pd | at.% Ag | | at.% Pd | at.% Ag | at.% Pd | at.% Ag |
| *j*d = -5 mA cm-2; *ω* = 1000 rpm | | | | | | | | | | | | |
| (1) | -1.0 | 0.195 | 0.796 | 99 | 11 | | 89 |  |  |  |  | 4 |
| (2) | -2.0 | 0.214 | 1.512 | 86 | 7 | | 93 |  |  |  |  | 40 |
| *j*d = -7 mA cm-2; *ω* = 1000 rpm | | | | | | | | | | | | |
| (3)AgPd3 | -3.0 | 0.649 | 2.065 | 90 | 13.4 | | 86.6 | 15.2 | 84.8 | 3.4 | 96.6 | 55 |