


14. The method according to claim 11, wherein a concentration of the metal salt in the solution is from 0.005 to 10M.
15. The method according to claim 11, wherein the electron donor compound is selected from the group consisting of pyrrole, indole, carbazole, 2-acetylpyrrole, 2,5-dimethylpyrrole and thiophene.
16. The method according to claim 11, wherein a concentration of the electron donor compound in the solution ranges from about 0.005 to 10M.
17. The method according to claim 11, wherein a concentration of the electron donor compound in the solution is from 0.01 to 1M.
18. The method according to claim 11, wherein during the exposure a pH of the solution is from 6 to 9.
19. The method according to claim 11, wherein during the exposure a temperature of the solution is from -20°C to 60°C.
20. The method according to claim 11, wherein the reaction products are formed by applying a current density of from 0.1 to 5 mA/cm² and a charge potential of from 1 to 2V between the metal anode and a second electrode.
21. The method according to claim 11, wherein the reaction products are formed by applying a current density of from 1 to 2 mA/cm² and a charge potential of from 1 to 2V between the metal anode and a second electrode.

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