

## CLAIM AMENDMENTS

The following list of claims replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) A method of coating a phosphor comprising;
  - (a) contacting a nitride phosphor with a sol comprising: at least one of silica, alumina, borate and a precursor thereof, and an acid catalyst; and
  - (b) heating the phosphor at a temperature in a range of 200 °C to 600 °C, thereby forming a coated phosphor,  
wherein the sol comprises at least one of colloidal silica and colloidal alumina, and wherein the sol does not include a precursor of silica, a precursor of alumina, or a precursor of borate.
- 2-7. (Canceled)
8. (Original) The method of claim 1, wherein the sol further comprises a solvent.
9. (Currently amended) The method of claim 8, wherein the solvent comprises at least one solvent selected from the group consisting of water ( $\text{H}_2\text{O}$ ), methanol, ethanol, propanol, butanol, 2-ethoxyethanol, formamide, dimethylformamide, dioxane and tetrahydrofuran.
10. (Currently amended) The method of claim 1, wherein the acid catalyst comprises hydrochloric acid having a molarity greater than ~~2.87 mol/dm<sup>3</sup>~~ 9.45 mol/dm<sup>3</sup>.
11. (Currently amended) The method of claim 1, wherein the acid catalyst comprises acetic acid ~~having a mass density of 1.05 g/cm<sup>3</sup>.~~
12. (Currently amended) The method of claim 1, wherein the sol comprises a tetraalkylorthosilicate ~~( $\text{SiC}_8\text{H}_{19}\text{O}_4$ )~~ ( $\text{SiC}_8\text{H}_{20}\text{O}_4$ ).
13. (Canceled)
14. (Currently amended) The method of claim 1, wherein the sol comprises a trialkylborate ( $[(\text{CH}_3)_2\text{CHO}]_3\text{B}$ ).

15. (Original) The method of claim 1, wherein the sol comprises alumina and/or aluminum sulfate.

16. (Original) The method of claim 1, wherein the phosphor is stirred in the sol for a time in a range of 0.1 to 40 hours.

17. (Previously presented) A coated phosphor comprising: a nitride phosphor in particulate form coated with alumina, silica and/or borate, wherein the phosphor has a du'v' of less than 0.0015 after 840 hours at 85 and 85% relative humidity.

18-19. (Canceled)

20. (Original) The coated phosphor of claim 17, further comprising a green and/or yellow phosphor.

21. (Previously presented) The method of claim 1, wherein the nitride phosphor is reacted with the sol for a time in a range of from 16 to 24 hours.

22. (Previously presented) The method of claim 1, wherein, prior to contacting the nitride phosphor with the sol, the sol is reacted for a time in a range of 24 to 32 hours.

23. (Previously presented) The method of claim 1, further comprising heating the coated phosphor at 200°C for 2-6 hours.

24. (Canceled)

25. (New) A method of coating a phosphor comprising:  
(a) contacting a nitride phosphor with a sol comprising: at least one of silica, alumina, borate and a precursor thereof, and an acid catalyst; and  
(b) heating the phosphor at a temperature in a range of 200 °C to 600 °C, thereby forming a coated phosphor, wherein, prior to contacting the nitride phosphor with the sol, the sol is reacted at room temperature.

26. (New) The method of claim 25, wherein the sol is reacted for a time in a range of X hours, wherein  $24 < X < 36$ .

27. (New) The method of claim 25, wherein the contacting occurs at room temperature.

28. (New) The method of claim 25, wherein, after the contacting and before the heating, the nitride phosphor is separated from the sol.

29. (New) The method of claim 25, wherein, the sol has a mass density of  $1.6 \text{ g cm}^{-3}$ .

30. (New) The method of claim 35, wherein the sol is doped with  $\text{NH}_4$ .