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Luminescence:

Producing optical radiation with exitaction of atoms and molecules thorough transitions into ground state (emission of photons):

- Electroluminescence: electrical exitation with diods or gas discharge
- Photoluminescence: exitation with electromagnetic radiation (photons), phosphor or fluor
- Chemoluminescence: exitation with chemical reaction, e.g. luminol
- Bioluminescence: exitation with chemical reaction at living organs, e.g. oxidation of luciferin
- Triboluminescence: exitation with friction or tearing apart (e.g. sugar cristals)
- Radioluminescence: exitation with irradiation with  $\alpha$ –,  $\beta$ – or  $\gamma$ -radiation