Re: Excitation and Emission Spectrum

Source: http://sci.tech−archive.net/Archive/sci.chem/2005−08/msg00382.html

- *From*: "Farooq W" <farooq.w@xxxxxxxxx>
- *Date*: 11 Aug 2005 10:00:11 −0700

raconte@xxxxxxxxxxx wrote:
> Attila the Bum wrote:
> > Blue shifts come from two−photon absorptions,
> > hence their "weak" (low probability) nature?
>
> Right, that's more or less what I meant. :) Remember, lab monkey, not
> Ph.D physicist.
> >
> > Got an example/published report?
> >
>
> No, but there are also phosphor screens manufactured (for example by
> Kodak) as replacements for x−ray film. If the phospors are exposed to
> x−rays or gamma rays, they become "sensitized". Red laser light causes
> a blue emission of the sensitized areas. The screen is reusable, just
> "erase" with blue light.

Just came across anti−Stokes phosphor while searching for somehing
else; this phosphor converts IR into green light. "YF3 host doped with
Yb3+ as a sensitizer and Er3+ as an activator can convert incident IR
radiation into green luminescence"

See, if interested:
http://www.radiochemistry.org/periodictable/la_series/L9.html

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- ***Follow−Ups***:
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    - ◊ *From:* Attila the Bum

- ***References***:
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    - ◊ *From:* Farooq W
  - ♦ ***Re: Excitation and Emission Spectrum***
    - ◊ *From:* raconte

- ***Re: Excitation and Emission Spectrum***
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