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## Photorefractivity in polymers

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## Stellingen

1. The existence of photorefractivity in polymers creates the opportunity to study the processes of charge transport and trapping in this class of amorphous materials with optical techniques.

2. Some ideas that are promoted as “new” can be found in older Russian journals.

3. The electrooptic coefficients  $r_{33}$  and  $r_{13}$  do not apply in the waveguide geometry used by Yu et al.

Yu et al., *Macromolecules* 26, 2216 (1993)

4. The zero degrees phase shifted gratings observed by Silence et al. in the polymer PVK:Lophine 1:TNF can also be attributed to a photorefractive response, limited by a large amount of traps.

S.M. Silence et al., *Appl. Phys. Lett.* 64, 712 (1994)

5. The recent development of a holographic lock by Holoplex (briefly described by Psaltis et al.), shows the tremendous potential of optical computing schemes.

D. Psaltis and F. Mok, *Scientific American*, p. 52, November 1995

6. Unnecessary use of complicated terminology and formalism does not imply great science but charlatanism.

7. It is very important for Ph.D. students to present their work at international conferences (not forgetting, it's important for post-docs too!).

8. It takes courage to give up hope, but more courage to keep it.

9. The fact that one can "buy" in advance his own funeral is yet another sign of the degradation of family values.

10. There are two types of optimists: Those who claim things could not be better and those who realize that things could have been much worse.

11. A car is not just a means of transportation from point A to point B: Quality makes the difference.

12. Multitasking in OS/2 can greatly improve someone's productivity. However, it requires at least 16 MB to run decently.

13. All those who claim to be 100% politically correct should not say "walkman" but "walkperson".

George G. Malliaras  
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