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PLED

(PPV).

PPV

[1],

PPV.

(VDP-vapor deposition polymerization),  
(PPX)

VDP

PPV

VDP,

(Aldrich).

, ITO (indium tin oxide), Wafer.

(VDP-

[2]).

. 1:



. 1.

PPV

CdS ZnS.

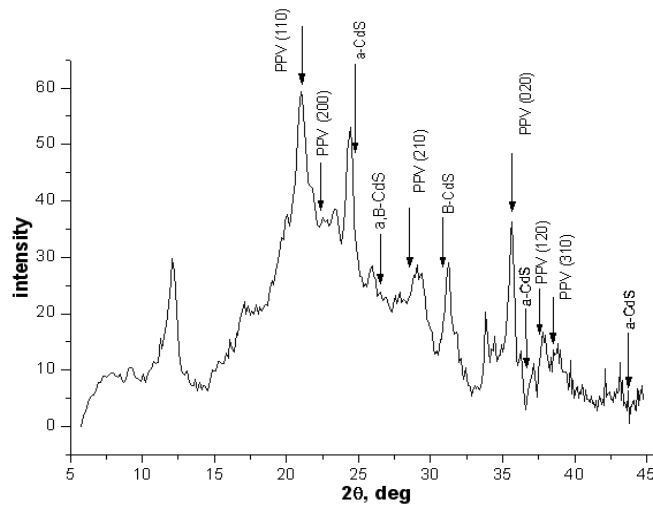
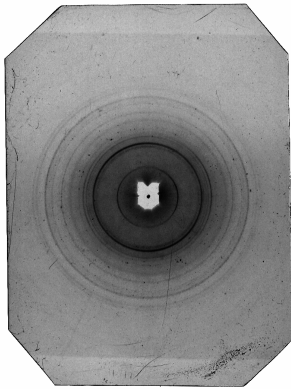
CdS, ZnS  
~10<sup>-5</sup>

40-

90° , 500-700° ,  
 -196° ,  
 230° .  
 (ZnS) : ITO, Wafer. CdS  
 CuK  
 0.02 -0.05° . 4-5  
 Ni- 2  
 PPV-CdS. 2

Bruker D8 Advance

Scion  
 ( )



2. ( ) ( ) PPV-CdS.

PPV CdS.  
 $I_{hkl}$

$hkl$

$$\Delta = \frac{1}{I_{max}} \int I(2\theta) d2\theta, \quad (1)$$

$$I_{hkl} = \frac{\lambda}{\Delta_{hkl} \cos \theta} \quad (2)$$

$I(2\theta)$   $I_{max}$  - 2 CdS ( )  
 . 1 2 PPV.

1- -CdS				2- -CdS			
2	S	$I_{max}$	$L_{hkl}$ - ( )	2	S	$I_{max}$	$L_{hkl}$ ( )
24.4	13.57	23.67	15.76	31.2	8.41	14.63	15.93

PPV			
2	S	lmax	Lhkl -
21.05	16.56	21.59	( )
			7.6

Elmer":

"Lambda-9",  
"LS-5".

"Perkin

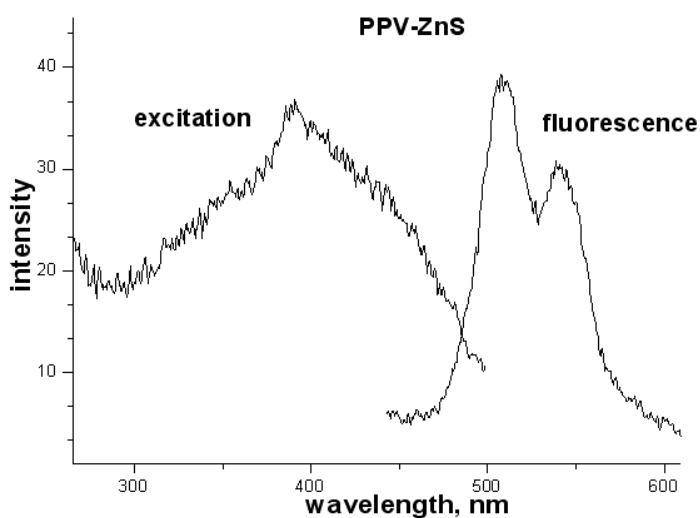
0,14±0,17 eV

PPV-ZnS.

$$E = S_i h \nu_i$$

2÷2,5

[3].



PPV-ZnS.

08-03-00695, 06-03-32287.

1. Cho B.R., Prog. Polym. Sci. 27, p. 307-355, 2002.
2. Errede L.A., Szwarc M., Quart. Rev.(London), v.12, p.301, 1958.
3. Bassler H., Schweitzer B., Acc, chem.res., v. 32, p.173-182, 1999.