

**DIMETHYL N, N'- [(ETHYNE-1, 2-DI-YL) BIS - (1, 4-PHENYL-
ENECARBON-YL)] BIS - (L-ALANINATE) – {DMNN'E12DYB14PEYBLA}
NANO CRYSTALS FOR FILTER – OPTO ELECTRONIC,
COMPUTATIONAL APPLICATIONS**

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ABSTRACT

DMNN'E12DYB14PEYBLA nano crystals are having enormous opto-electronic application, phase matching, frequency matching and power transmission and other utilities. Macro crystals have least applications by value compared to nano form of DMNN'E12DYB14PEYBLA prepared by milling technique. The nano form of DMNN'E12DYB14PEYBLA crystals are of 206 nm, 53 nm, 39 nm, 30 nm, 25 nm respectively.

INTRODUCTION

Nano particles have more impinges on applications over their counterparts which are macro or micro shapes and nano form impact will be in exponentiation level by the utility and efficiency and enablement over other forms [1-30].

EXPERIMENTAL PROCEDURE

The macro crystals are subjected to milling method to get the nano form of the titled crystal with Retsch planetary ball running for about 40 hours with toluene as mill medium and about 250 rpm and got the nano sizes of different perceptions [31-34].

Sample {DMNN'E12DYB14PEYBLA} Crystallite Size (nm)

Mill type	Retsch planetary ball
Milling time	40 - 50 hours
milling medium	Toluene
Milling speed	250 rpm

Sample	Crystallite size
GM initial powder	206 nm
GM after 15 hours	53 nm
GM after 25 hours	39 nm
GM after 30 hours	30 nm
GM after 40 hours	25 nm

FILTERS UTILITY BY DMNN'E12DYB14PEYBLA NANO CRYSTALS

Filter applications by titled nano crystal for displacement of beam in mm is given in Table for which the displacement is measured with long wave as 7.112 mm and short wave as -0.989 mm and dislocation can also analysed and this refers the opto - electronic

applications using filters. The refractive influx of the grown crystal is found to be 4.7936 microns for the temporal stage of velocity parameters at the point of influx for different rate of variances and mentioned here and is predominant value of typical NLO crystals which are macro and transmittance or optical band gap for nano form of crystals from Table.1 and Table.2.

SUMMARY AND CONCLUSION

The DMNN'E12DYB14PEYBLA nano crystals are having enormous opto-electronic application, phase matching, frequency matching and power transmission and other utilities. The nano form of DMNN'E12DYB14PEYBLA crystals are of 206 nm, 53 nm, 39 nm, 30 nm, 25 nm respectively and used for long wave as **7.412** mm and short wave as **-0.999** mm the refractive influx of the grown crystal is found to be **4.9996** microns which are higher value compared to other forms apart from Nano and has the greater impact on the electronic properties variance and in bio applications too.

**TABLE.1 BEAM DISPLACEMENT OF NANO CRYSTALS
{DMNN'E12DYB14PEYBLA} BY FILTER METHOD**

<i>Plate level</i>	<i>Beam displacement (mm)</i>
Long wave	7.412
Short wave	-0.999
Plate 't'	-0.82

TABLE.2 INFLUX VALUE OF {DMNN'E12DYB14PEYBLA} CRYSTALS

<i>Parameter</i>	<i>Beam displacement (mm)</i>
Influx value	4.9996 microns

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