



研究任务

1.

2.

V.I.Vernadsky

3.

4.

[9,10] Vernadsky

Teilhard de Chardin

研究材料和方法

RCFO

RCFO

3-15µm

" "

James Jeans "

Bruker

DNGS

"

"

"

"

"

480-3400 nm

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•

•

结果和讨论

I.P.

"

"

"

"

CNS

[6-8]

Vernadsky

[9] Vernadsky

[10]

[11]

Vernadsky

"

"

"

"

"

"

V.I.Vernadsky

"

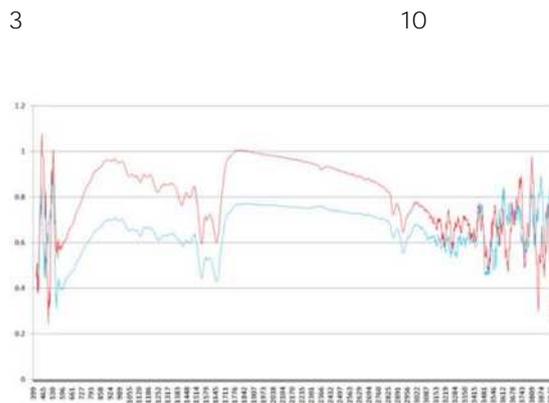
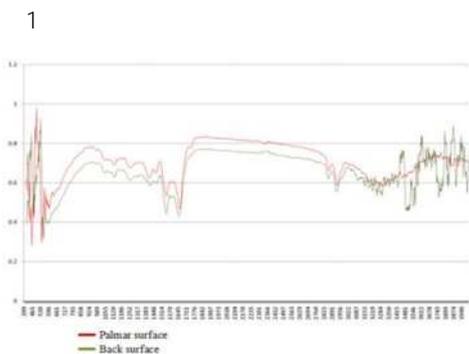
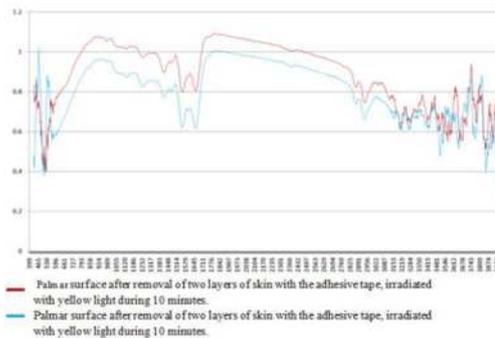
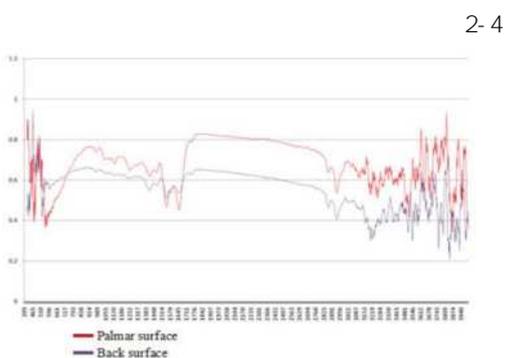
"

"

"

530- 1448 cm<sup>-1</sup>      10      580 nm      1 mm<sup>3</sup>  
 500      80      5000      50      4000

2× 10<sup>15</sup>



2      10

4      10

1970  
 Goncharenko

[12]

[12.14]

[15.14]

[13]

Goncharenko



" " " "

[6,23,24]

" "

1.  
 2.  
 3.4  
 4.

5mm

7 $\mu$ m

16mm

1mm

3200 cm-1

[21,6]

" "

[6,25]

10 7

1973

20 70

Leo Esaki

[6]

Vladimir Vernadsky

" "

" " "

"

[6]

6

1-4

6 7

11 cm

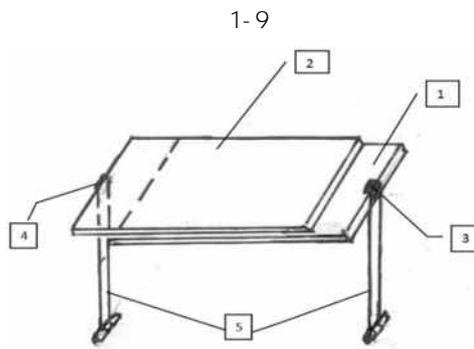
2 cm

" "

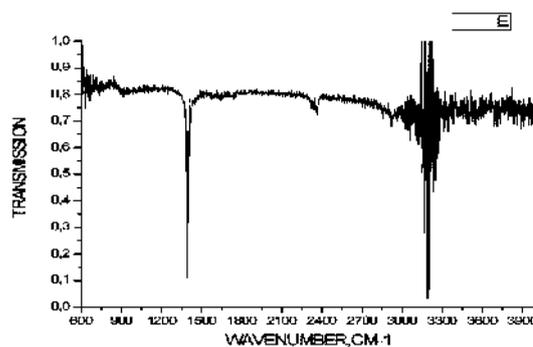
Vernadsky

—

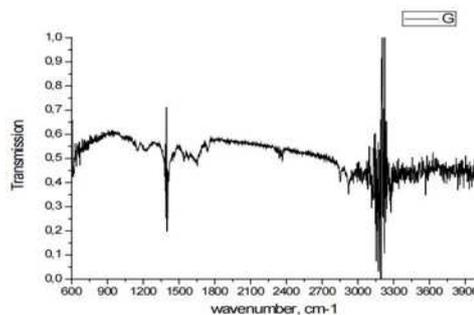
Vernadsky



7



8



9

10

## 结论

1. " "
2. " "
3. " "
4. " " " " " " "

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