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- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Autonomous)

Department of Physics

ICT based CIE

on

M.Sc. I: Internal Examination of Condensed Matter Physics

Conducted by

Dr. M. M. Karanjkar

on

Date: 14/03/2022, Time – 11.00 am to 11.30 am

(2021 – 22)

[Questions](#)[Responses](#) 22[Settings](#)

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Tutorial Exam

Vivekanand College, Kolhapur (Autonomous)

Department of Physics

M. Sc. I

Paper code – CP-1103A

Name of the exam - Tutorial exam

Date – 14/03/2022

Time – 11.00 am to 11.30 am

Instructions:

1) All questions are compulsory.

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Name of Student *

Long answer text



Tutorial Exam

22 responses

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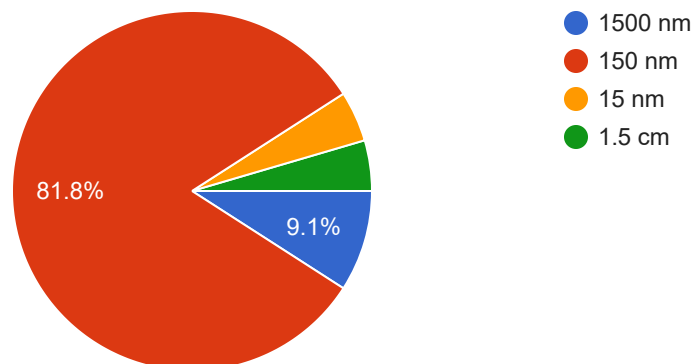
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If a thin film of Fe_2O_3 has been deposited on stainless steel substrate having deposition area 6 cm square. Thickness of thin film if 0.002 gm of material is deposited is (Given :: Molecular weight of Fe_2O_3 : 5 gm/cm cube)

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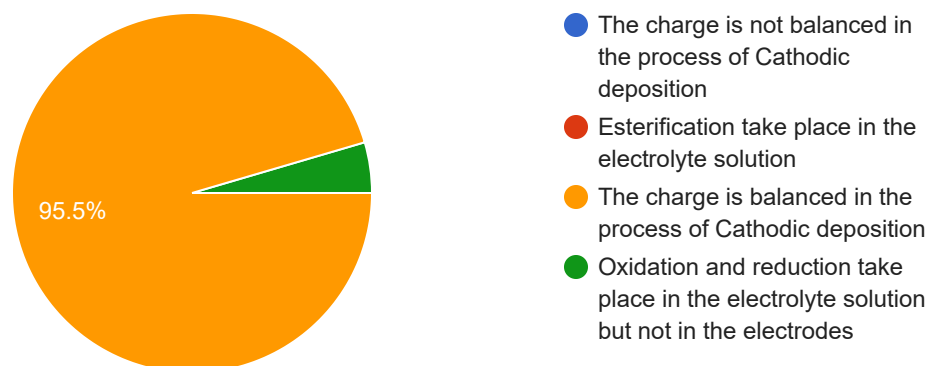
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For Cathodic deposition which of the following statements is appropriate?

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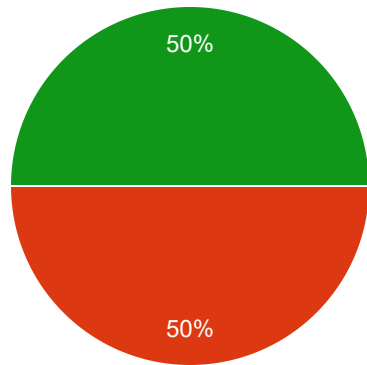
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Which of the following does not include liquid phase deposition?

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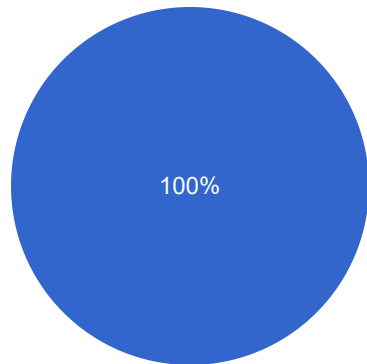


- SILAR
- CVD
- Spraypyrolysis
- Electroplating

SILAR stand for

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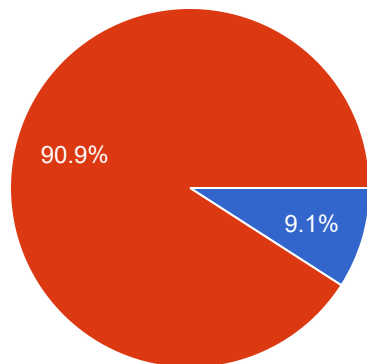


- Successive Ionic Layer Adsorption and Reaction
- Successive Ionic Layer Absorption and Reaction
- Successive Molecule Layer Adsorption and Reaction
- Successful Atom Layer Adsorption and Reaction

Basic principle of spray pyrolysis technique is

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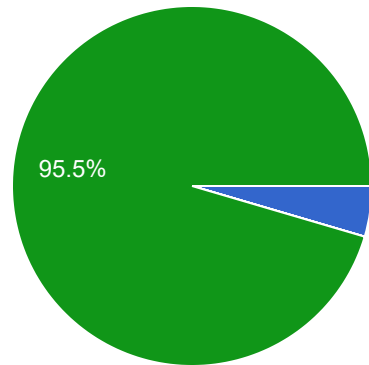
- Ion by ion deposition
- thermal decomposition
- cathodic deposition
- gas phase deposition



Which of the following is not used in spray pyrolysis unit ?

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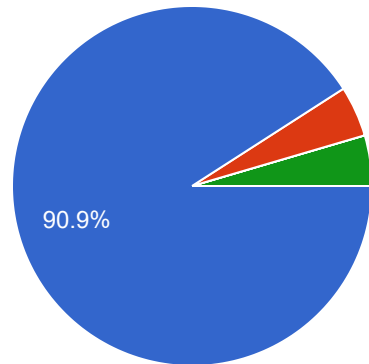


- Air Compressor
- Spray nozzle
- Rotator
- Magnetic Plate

SILAR technique involves deposition by

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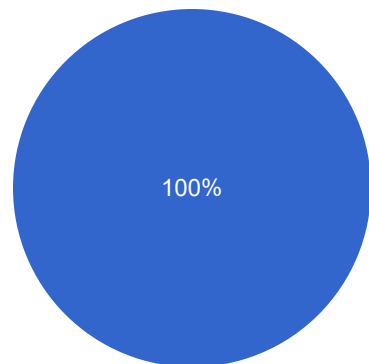


- Ion by ion deposition
- Molecule by molecule
- kinetic
- Thermal deposition

..... Substrates are used in electrodeposition technique.

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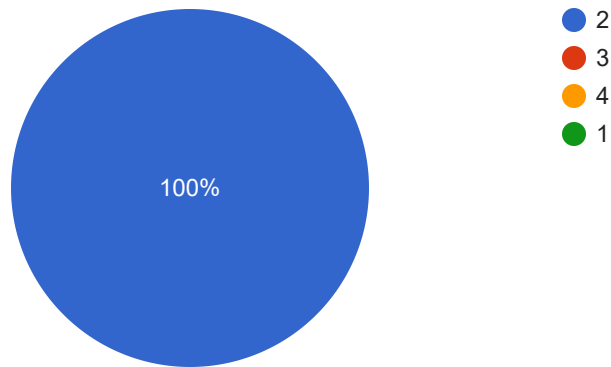
- Stainless Steel
- Glass
- Wood
- plastic



Thin films are dimensional object.

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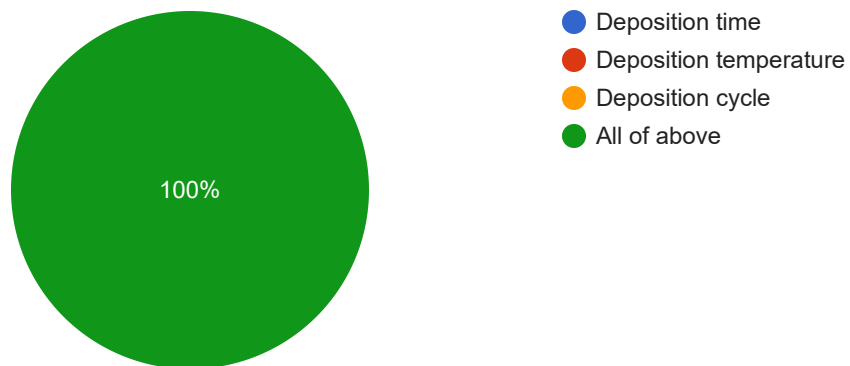
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Parameters affecting SILAR depositions are.....

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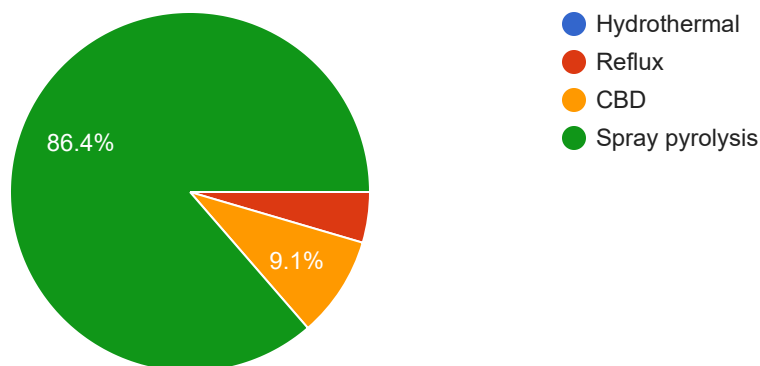
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Deposition rate can be easily controlled in technique

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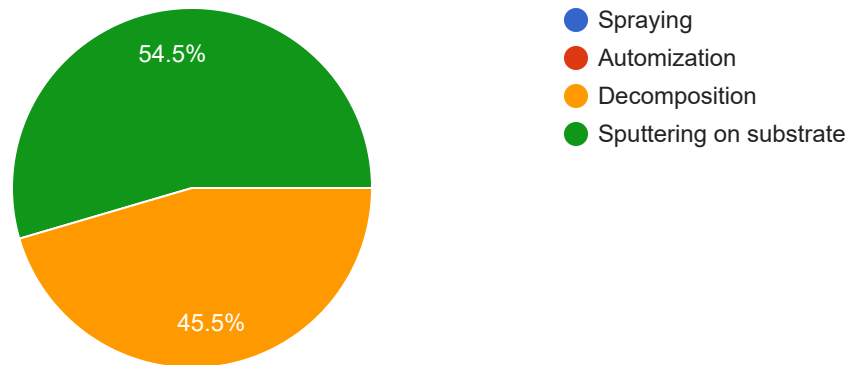
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Which of the following step in not used in spray pyrolysis technique ?

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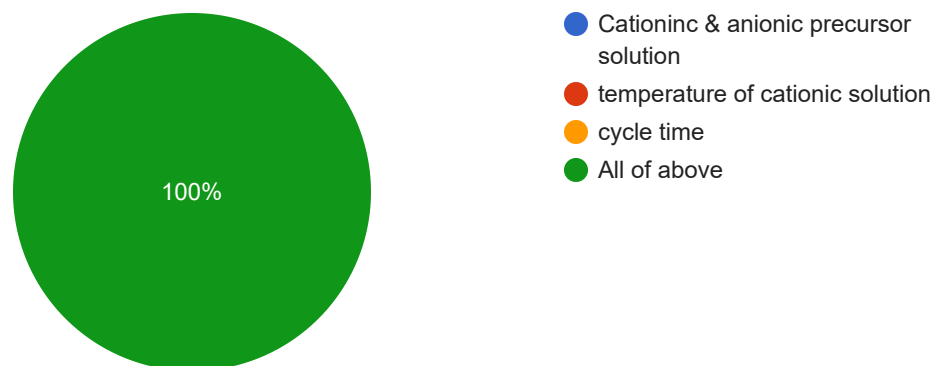
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Which of the following parameters affect SILAR method thin film depositon ?

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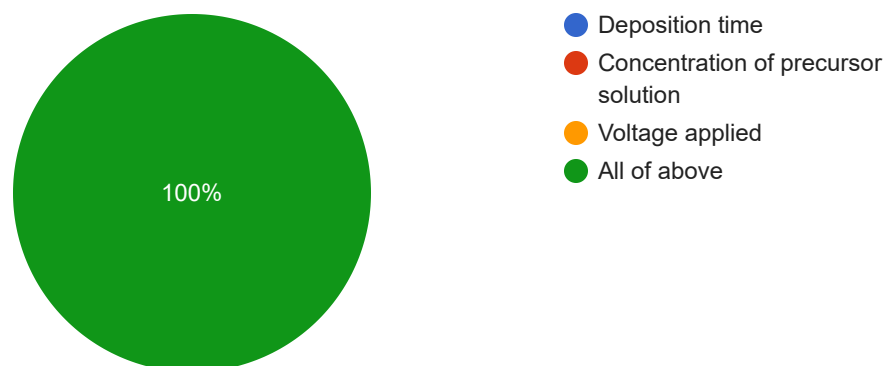
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Which of the following parameters affect cathodic electrodeposition method thin film depositon ?

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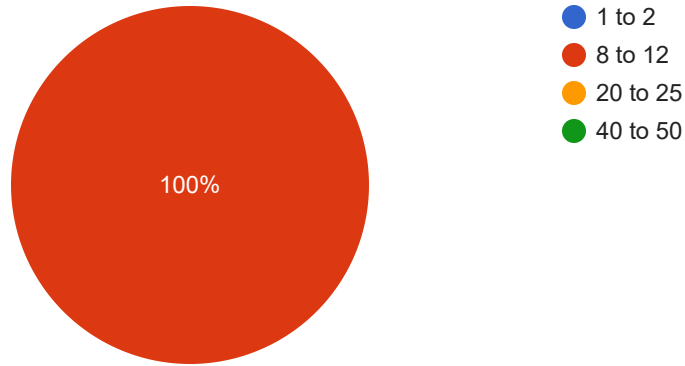
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In spray pyrolysis technique, air compressor pressure is maintained atpa

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