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D. Payne}, journal={Chemical Solution  
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Sachiko Hiromoto, in Surface Modification  
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Biomedical Applications, 2015. 3.2.1  
Chemical solution deposition. CSD is a  
coating method in which the coating is  
formed with the reaction between the

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substrate surface and components of the solution (Yoshimura, 2009). This method is named following the name 'chemical

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vapour deposition’.

Introduction to Chemical Vapor Deposition  
(CVD) J. R. Creighton and P. Ho Sandia

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MS0601 Albuquerque, NM 87185-0601  
Introduction Chemical vapor deposition  
(CVD) is a widely used materials-



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processing technology. The majority of its applications involve applying solid thin-film coatings to surfaces, but it is also

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**Materials Science. Scientists from  
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the liquid material that creates the perovskite crystal through a chemical reaction.

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An introduction and comparison of chemical vapor deposition and solution deposition approaches to film fabrication is given by Dr. Balema of Sigma-Aldrich™

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**Materials Science. Scientists from  
Cambridge NanoTech discuss Chemical  
Vapor Deposition (CVD) and Atomic Layer  
Deposition (ALD), as well as advantages of**



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the Savannah ALD system. Dr.

Introduction to Chemical Vapor Deposition  
(CVD) J. R. Creighton and P. Ho Sandia

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(CVD) is a widely used materials-

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processing technology. The majority of its applications involve applying solid thin-film coatings to surfaces, but it is also

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Chemical vapour deposition may be defined as the deposition of a solid on a heated

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surface from a chemical reaction in the vapour phase. It belongs to the class of vapour-transfer processes which is atomistic in nature, that is the deposition

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species are atoms or molecules or a combination of these. Schematic of a simple thermal CVD reactor

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A room temperature chemical solution deposition technique has been employed for the deposition of Sb<sub>2</sub>Se<sub>3</sub> thin films.  
Solution based deposition of Sb<sub>2</sub>Se<sub>3</sub>



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crystals with variation in reaction time found to be playing a significant role in controlling the reaction rate during the deposition of  $\text{Sb}_2\text{Se}_3$  films. Temporal

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evolution of structural, morphological and  
optical properties of ...

Electrodeposition from aqueous solution

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appears to be pre- above, room temperature  
Si electrodeposition has typically yielded  
cluded by the highly cathodic standard  
reduction potential of SiO<sub>2</sub> porous

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deposits.10 ( 0.90 V vs. NHE), which is cathodic to the standard reduction In order to increase the rate of  $\text{SiF}_2$  reduction, and obtain com- potential of water ( 0.83 V vs.

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NHE).6 This suggests ...

Chemical evolution and mineral deposition  
in boiling hydrothermal systems S ... are

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subordinate to the compositional variables in determining the chemical evolution of a boiling hydrothermal solution. Mineral deposition is most vigorous when the

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volatile components partition from the solution ... This content is PDF only. Please click on the ...

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In the present work, polycrystalline  $\text{Bi}_{0.67}\text{La}_{0.33}\text{Fe}_{0.5}\text{Sc}_{0.5}\text{O}_3$  thin films were synthesized using a simple and cost-effective chemical solution deposition



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process employing the spin coating technique. In order to check the feasibility of the fabrication of thin films on various types of substrates, the films were deposited

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on Pt-coated silicon, silicon, sapphire,  
corundum, fused silica and glass.

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27754711. Chemical solution deposition of  
epitaxial carbide films.

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title={Chemical solution deposition of

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epitaxial carbide films.}, author={Guifu  
Zou and Haiyan Wang and N. Mara and  
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Mccleskey and A. Burrell and X. Zhang and  
M. Nastasi and Q. Jia}, journal ...

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Introduction Chemical vapor deposition

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(CVD) is a widely used materials-processing technology. The majority of its applications involve applying solid thin-

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film coatings to surfaces, but it is also

On the basis of solution state functionality  
and thermogravimetric analysis (TGA),



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alkoxyzinc thioureaides 6 and 7 were investigated as single-source precursors for the deposition of the ternary material zinc oxysulfide,  $Zn(O,S)$ , a buffer layer used in

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thin  $\mu\text{m}$  photovoltaic devices. The aerosol-assisted chemical vapour deposition (AACVD)

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In the present work, polycrystalline  $\text{Bi}_{0.67}\text{La}_{0.33}\text{Fe}_{0.5}\text{Sc}_{0.5}\text{O}_3$  thin films were synthesized using a simple and cost-effective chemical solution deposition

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on Pt-coated silicon, silicon, sapphire,  
corundum, fused silica and glass.

A thermodynamic model of boiling

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hydrothermal solutions is developed and applied over a wide range of physical and chemical conditions. Within the range of conditions observed in natural boiling

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hydrothermal systems the processes of liquid-vapor partitioning and the resultant effects on mineral solubilities are highly

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varied and complex.

**Preparation and Characterization of Barium  
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## Solution Deposition

Over the past decades, the development of nano-scale electronic devices and high-

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density memory storage media has raised the demand for low-cost fabrication methods of two-dimensional (2D) arrays of magnetic nanostructures. Here, we present a

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chemical solution deposition methodology  
to produce 2D arrays of cobalt ferrite (CFO)  
nanodots on Si substrates.

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Lithium and titanium co-doped NiO ceramics have been found to exhibit a giant low-frequency dielectric constant ( $\approx 10^5$ ), however, the same system thin films is not

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yet study. In the present study, Lithium and titanium co-doped NiO thin films were prepared by a chemical solution deposition method using 2-methoxyethanol as a

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solvent, nickel acetate tetrahydrate, lithium acetate dihydrate and ...

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