|  |  |
| --- | --- |
| Title | Electrical modulus and impedance spectroscopy of CoFe2O4 nanoparticles embedded into the PVA matrix |
| Author(s) Name | Pradipta Chakraborty, Dhiraj Kumar Rana, Shovan Kumar Kundu, Soumen Basu |
| Contact Email(s) | soumen.basu@phy.nitdgp.ac.in  |
| Published Journal Name | AIP Conference Proceedings |
| Type of Publication |  Conference Article |
| Volume | 2265 | Issue | 1 |
| Publisher | AIP Publishing |
| Publication Date |  05 November 2020 |
| ISSN | 1551-7616 (Online), 0094-243X (Print) |
| DOI | https://doi.org/10.1063/5.0016647 |
| URL | https://pubs.aip.org/aip/acp/article-abstract/2265/1/030450/1025900/Synthesis-characterization-and-electrical |
| Other Related Info. |  |

|  |
| --- |
|  |

|  |  |
| --- | --- |
| Abstract: In the present study, samarium and iron co-doped Yttrium chromates were investigated. Synthesis of co-doped YCrO3 powder was synthesis using sol-gel method. Samples have been characterized by different techniques (X-ray diffraction, TEM, SEM, LCR meter). Powder XRD of the samples exhibit the formation of orthorhombic monophasic YCrO3 nanoparticles. DC conductivity increases with the increase of temperature for all the samples. The variation of ac conductivity with frequency shows that if follows CBH model. |  |
|  |