

## Review Form 1.7

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_111604
Title of the Manuscript:	X-ray Crystallographic Derived Diffraction Pattern Profiling of Polymorph-TiO <sub>2</sub> for Pigment and Acrylic Paint
Type of the Article	Original Research Article

### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p><b>Yes, Authors have studied about the TiO<sub>2</sub> nanoparticles with all the crystallographic information using Rietveld refinement.</b></p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p><b>Yes, you can cite these references also given below-</b></p> <ol style="list-style-type: none"> <li>Bal Govind; Purnima Bharti, Manisha Shrivastva; Ashish Kumar; Sahiba Bano; Komal Bhatt, J. S. Tawale, J. J. Pulikkotil; D K Misra* Magnetic Properties of Intermediate Ni<sub>2-x</sub>Mn<sub>1+x</sub>Sb Full-Heusler Compounds, Material Research Bulletin, 142, 111427 (2021).</li> <li>Bal Govind; Manisha Shrivastva; J. J. Pulikkotil; D K Misra*, Electronic structure and magnetic properties of a full-Heusler Mn<sub>2</sub>NiSb: Cu<sub>2</sub>MnAl type structure, Journal of Magnetism and Magnetic Materials, 517, 167375 (2021).</li> <li>Bal Govind; Ashish Kumar; Sahiba Bano; Aman Bhardwaj and D.K.Misra*, Structural and Magnetic Properties of Ni<sub>1+x</sub>MnSb Bulk Heusler Composite Materials, ACS Omega, 5, 21, 11895–11900 (2020).</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>English quality need to little bit improved.</p>	
<p><b>Optional/General</b> comments</p>	<p>Comments-</p> <ol style="list-style-type: none"> <li>There is a term used at several places as "Crystal size". It should be crystalline size, because both have different sense.</li> <li>Value of structural parameters (Table 6) such as lattice parameters, crystalline size, strain etc should be written with its error.</li> <li>In page 10, fig 3 shows strain curve in which strain for brookite is relatively higher to the rutile and anatase. So how you can say "strain curve shows that the anatase strain curve is more stable than brookite cure as well as rutile" at page 10, line 158.</li> </ol>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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