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## **SDI Review Form 1.6**

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_45533
Title of the Manuscript:	Advanced Multi-layered Thermal Barrier Coatings - An Overview
Type of the Article	Review Paper

#### **General guideline for Peer Review process:**

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link: (http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

## **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)
<u>Compulsory</u> REVISION comments	<ul> <li>The authors use a lot of abbreviations, which sometimes is difficult to follow. I strongly advice preparing a list of abbreviations for this article.</li> <li>The article doesn't contain the Fig. 1, which is referred in the text (page 12, line 274)</li> <li>The article doesn't contain the Fig. 2, which is referred in the text (page 15, line 365)</li> <li>Shouldn't the "Nano-structured TBC" be a new section or subsection of the article? (page 15, line 367)</li> </ul>	
Minor REVISION comments	<ul> <li>Please explain the abbreviations "HVOF, APS or EB-PVD" (page 2, line 43)</li> <li>Is the "MCrAlY" name correct? I think that the first capital letter should stand for some metal element? Should it be "MgCrAlY"? (page 3, line 56) – please explain when appears it the text for the first time.</li> <li>Please explain the "SIFCO" abbreviation. (page 5, line 107)</li> <li>Please explain the "CYSZ" abbreviation. (page 12, line 289)</li> <li>Please explain the "FGM" abbreviation. (page 14, line 339)</li> <li>Please explain the "GZ abbreviation. (page 17, line 409)</li> </ul>	
Optional/General comments	<ul> <li>The article lacks graphs and figures, which are very helpful to illustrate the described matter. I highly recommend considering addition of some figures (usually an author of a review article can get the right to re-print of figures from the publisher free of charge).</li> <li>Please change: "attack of the blade materials" to "attack on the blade materials" (page 1, line 22)</li> </ul>	

#### PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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