



SDI Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_35484
Title of the Manuscript:	Optical absorbence and band structure of molecular hydrogen in different phases
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', 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)
Compulsory REVISION comments		
Minor REVISION comments	1- Is what you calculated the transition pressures for the five phase or you took them to literatures 2- Is what you have assured that solid hydrogen under great pressure keeps their properties (optics, thermodynamics, transport ...) 3- You have cited five phases for solid hydrogen. Are these phases are phases are observed excrementally or are crystallographic phases. 4- I think with the use of approaches as DFT + U or mbj or hybrid can be 4 and 5 phases are semiconductor nature 5- As is known in the physics of condensed matter the study of a material under pressure is related to the temperatures. More than solid hydrogen can be considered a superaconductor. Therefore you are obliged to provide a study with temperature	
Optional/General comments		

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