Title:	Electromagnetic Field Dependence of Strong Coupling in WS2 Monolayers
Authors:	Bhatt, Pooja (/jspui/browse?type=author&value=Bhatt%2C+Pooja) Dutta, Jhuma (/jspui/browse?type=author&value=Dutta%2C+Jhuma) George, Jino (/jspui/browse?type=author&value=George%2C+Jino)
Keywords:	Electromagnetic Monolayers
Issue Date:	2021
Publisher:	Wiley
Citation:	Physica Status Solidi (RRL) – Rapid Research Letters, 15(4), 2000580.
Abstract:	Strong light–matter coupling is achieved by placing an atomically thin WS2 monolayer in a Fabry–Pérot cavity configuration. Herein, a multilayer approach is adapted for fine tuning the position of the active layer within the cavity. This allows the control of light–matter interaction between the active layer and the cavity photon. Moving the monolayer in the confined volume shows a clear field dependence, as reflected in their Rabi splitting energy. These are again confirmed by angle-resolved transmission and photoluminescence measurements. A large drop in the effective mass is observed for polaritonic states formed at the antinode of the cavity, suggesting its potential applications in energy/electron transport.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://onlinelibrary.wiley.com/doi/10.1002/pssr.202000580 (https://onlinelibrary.wiley.com/doi/10.1002/pssr.202000580) http://hdl.handle.net/123456789/5024 (http://hdl.handle.net/123456789/5024)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need To Add…Full Text_PDF (/jspui/bitstream/123456789/5024/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF)		15.36 kB	Unknown	View/Open (/jspui/b

Show full item record (/jspui/handle/123456789/5024?mode=full)
(/jspui/handle/123456789/5024/statistics)