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Banerji, S. ; Dept. pf Electron. & Commun. Eng., RCC Inst. of Inf. Technol., Kolkata, India ; Halder, A. ; Deyasi, A. ; Bose, S. 4 Author(s) Abstract Authors **Cited By** Keywords Metrics Similar References 5.0 In this paper, a comparative analysis is made for density of states profile of one-dimensional infinite photonic crystal under the incidence of electromagnetic wave with different polarizations (p- type and s-type). Semiconductor heterostructure is considered as the material for the periodic arrangement, and structural parameters are suitably varied to observe the effect on DOS function, characterized by Ready blueshift and redshift. Adachi's model is considered to incorporate the dependencies of refractive indices on operative wavelength and material composition. Results are plotted with normalized to Build wavelength. Positions of peaks speak about the possible emission/detection wavelength for photonic Your Own crystal based laser. Analysis is useful in designing optical memory and micro-laser devices. Simulation Published in: Apps? Electronics, Communication and Instrumentation (ICECI), 2014 International Conference on Date of Conference: 16-17 Jan. 2014 Page(s): **Conference Location :** Kolkata 1 - 4 See How with Print ISBN: DOI: COMSOL 5.0 10.1109/ICECI.2014.6767359 978-1-4799-3982-4 **INSPEC Accession Number:** Publisher: 14162008 IEEE

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