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"title": "Professor",

"phone": "+91-22-25765564 (O)",

"email": "aftab@phy.iitb.ac.in",

"office": "229C",

"website": "Group Webpage", // Placeholder, actual URL not provided

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"publications": [

"1. Sibimol Luke, Manjunath Chatti, Asha Yadav,........ Aswani Yella, Aftab Alam\* and Alexandr N. Simonov Mixed metal-antimony oxide nanocomposites : low pH water oxidation electrocatalysts with outstanding durability at ambient and elevated temperatures J. Mater. Chem. A 9, 27468 (2021)",

"2. Jiban Kangsabanik, H. Borkar, Bhawna, M. S. Siddiqui, M. Aslam and Aftab Alam\* Origin of High Non-radiative Recombination and Relevant Optoelectronic Properties of Ba2Bi\_1+xNb1-xO6: Candidate for Photo(electro)catalysis and Photovoltaic Application [Featured in \"Hot Topic: Photocatalysis\" Section of Wiley] Advanced Optical Materials 2000901, 1-10 (2020)",

"3. C K Barman. Prashant Singh, D D Johnson and Aftab Alam\* Revealing the nature of antiferro-quadrupolar ordering in cerium hexaboride CeB\_6 Phys. Rev. Lett 122, 076401 (2019)",

"4. Jiban Kangsabanik, Vipinraj Sugathan, Anuradha Yadav, Aswani Yella and Aftab Alam\* Double Perovskites overtaking the single perovskites: A set of new solar harvesting materials with much higher stability and efficiency Phys. Rev. Materials 2, 055401 (2018)",

"5. Vikram, Jiban Kangsabanik, Enamullah and Aftab Alam\* Bismuth based Half Heusler Alloys with giant thermoelectric figure of merit J. of Mater. Chem. A 5, 6131-6139 (2017)",

"6. Akash Kumar, K. R. Balasubramaniam, Jiban Kangsabanik, Vikram, and Aftab Alam\* Crystal structure, stability and optoelectronic properties of the organic-inorganic wide-band-gap perovskite CH3NH3BaI3: Candidate for transparent conductor applications Phys. Rev. B 94, 180105 (Rapid) (2016)",

"7. Lakhan Bainsla, A. I. Mallick, Aftab Alam, K. G. Sureshet al. Spin gapless semiconducting behavior in equiatomic quaternary CoFeMnSi Heusler alloy Phys. Rev. B 91, 104408(2015).",

"8. R K Chouhan, Aftab Alam\*, S Ghosh and A Mookerjee Interplay of force constants in the lattice dynamics of disordered alloys: An ab-initio study Phys. Rev. B 89, 060201 (Rapid) (2014).",

"9. Aftab Alam, M Khan, R W McCallum and D. D. Johnson Site-preference and valency for rare-earth sites in (R-Ce)2Fe14B magnets Appl. Phys. Lett.102, 042402 (2013)",

"10. M G Kim, Aftab Alam et al., Effects of transition metal substitutions on the incommensurability and spin fluctuations in BaFe2As2 by elastic and inelastic neutron scattering Phys. Rev. Lett. 109,167003(2012)",

"11. Aftab Alam and D D Johnson Chemically Mediated Quantum criticality in NbFe2 Phys. Rev. Lett. 107, 206401 (2011)."

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