List of Publications

September 5, 2016

1 Book Chapters

1.1 Photonics:

1. Arpan Deyasi, **Sourangsu Banerji**, Sayan Bose and Abhishek Halder, *"Analytical Computation of Band Structure of 1D Photonic Crystal under Normal Incidence of Electromagnetic Wave"*, Lecture Notes in Electrical Engineering: Computational Advancement in Communication Circuits and Systems, part 6: Advances in Devices and Circuit, vol. 335, Chapter 36, p. 331-338, 2014 [Springer, DOI 10.1007/978-81-322-2274-3_36]

2 Monographs

2.1 Photonics:

1. Arpan Deyasi, **Sourangsu Banerji**, *"Study of Electronic Properties of 1D Photonic Crystal"*, Lap-Lambert Academic Publishing, Germany, 2014 [ISBN: 978-3-659-61682-2]

3 Journal Papers

3.1 Photonics:

1. **Sourangsu Banerji**, Arpan Deyasi, *"Simulating Reflectivity Property for Propagating Wave inside One-Dimensional Photonic Crystal with Different Material Systems"*, Journal of Electron Devices, Volume-21, pp. 1823-1829, March 2015. [ISSN: 1682-3427]

2. **Sourangsu Banerji**, *"Group Theoretic Approach to Study Transfer Matrix Method in One-Dimensional Photonic Crystals"*, GESJ: Physics, Volume-11(1), pp.: 43-47, July 2014. [ISSN: 1512-1461]

3. **Sourangsu Banerji**, Sayan Bose, Abhishek Halder, Subhasis Mandal and Arpan Deyasi, *"Comprehensive Review on Band Structure, Density of States and Wave Propagation inside One-Dimensional Photonic Crystal"*, International Journal for Research in Applied Science and Engineering Technology, Volume-2, Issue-4, pp.:252-260, April 2014. [ISSN: 2321-9653]

4. **Sourangsu Banerji**, Abhishek Halder, Arpan Deyasi, Sayan Bose and Subhasis Mandal, *"Analytical Computation of Density of States of One-Dimensional Photonic Crystal under Polarized Incident Wave for Different Materials"*, Journal of Electron Devices, Volume-19, pp. 1654-1662, April 2014. [ISSN: 1862-3427]

5. Abhishek Halder, **Sourangsu Banerji**, Sayan Bose, Subhasis Mandal and Arpan Deyasi, *"Computing Density of States of One-Dimensional Photonic Crystal under P-Polarized Incident Wave"*, International Journal of Modern Communication Technologies & Research, Volume-2, Issue-3, pp.: 38-41, March 2014. [ISSN: 2321-0850]

6. **Sourangsu Banerji**, *"To Study the Effect of Grating Length on Propagating Modes in Bragg Filters with $Al_xGa_{1-x}N/GaN$ Material Composition"*, International Journal of Advanced Science and Technology, Volume-63, pp.: 47-64, February 2014. [ISSN: 2005-4238, DOI: 10.14257/ijast.2014.63.05]

7. **Sourangsu Banerji**, *"Study of Propagating Modes and Reflectivity in Bragg Filters with $Al_xGa_{1-x}N/GaN$ Material Composition"*, GESJ: Physics, Volume-10(2), pp.: 87-97, January 2014. [ISSN: 1512-1461]

3.2 Embedded Systems:

1. **Sourangsu Banerji**, *"Design and Implementation of developed an Unmanned Vehicle using a GSM Network without Microcontrollers"*, Journal of Electrical Engineering, Volume-14, Issue 1, April 2014. [ISSN: 1582-4594]

2. **Sourangsu Banerji**, *"Design and Implementation of developed an Unmanned Vehicle using a GSM Network with Microcontrollers"*, International Journal of Science, Engineering and Technology Research (IJSETR), Volume-2, Issue-2, pp.: 367-374, February 2013. [ISSN: 2278-7798]

3.3 Wireless Communications:

1. **Sourangsu Banerji**, Rahul Singha Chowdhury, *"Recent Developments in IEEE 802.11: WLAN Technology"*, International Journal of Mechatronics, Electrical and Computer Technology, Volume-3, Issue-9, pp.: 1001-1013, October 2013. [ISSN: 2305-0543]

2. **Sourangsu Banerji**, *"Upcoming Standards in Wireless Local Area Networks"*, Wireless and Mobile Technologies, Volume-1, Issue-1, pp. 6-11, September 2013. [DOI: 10.12691/wmt-1-1-2]

3. **Sourangsu Banerji**, Rahul Singha Chowdhury, *"On IEEE 802.11: Wireless LAN Technology*, International Journal of Mobile Network Communications & Telematics (IJMNCT), Volume-3, Issue-4, August 2013. [ISSN: 1839-5678, DOI : 10.5121/ijmnct.2013.3405]

4. **Sourangsu Banerji**, Rahul Singha Chowdhury, *"Wi-Fi & WiMAX: A Comparative Study"*, Indian Journal of Engineering, Volume-2, Issue-5, pp.: 51-54, March 2013. [ISSN: 2319-7757, E-ISSN: 2319-7765]

4 Conference Papers

4.1 Photonics:

1. Arpan Deyasi, and **Sourangsu Banerji**, *"On the Comparative Analysis of the Band Structure of One-Dimensional Photonic Crystal with Different Material Composition under Oblique Wave Incidence"*, National Level Conference on Frontline Research in Computer, Communication and Device, pp. 155-166, Dec 2015 [ISBN: 978-93-8592-600-6]

2. **Sourangsu Banerji**, Arpan Deyasi, *"Application of Group Theory in Transfer Matrix Technique for Band Structure Calculation in 1D Photonic Crystal"*, International Conference on Computer, Communication and Control), pp. 1-5, September 2015 [IEEE Xplore, Print ISBN: 978-1-4799-8163-2, DOI-10.1109/IC4.2015.7375647]

3. **Sourangsu Banerji**, and Arpan Deyasi, *"Computing Photonic Eigen-Modes and Bandwidth for 1D Photonic Crystal with Different Material Compositions"*, 2nd National Conference on Emerging Trends in Engineering & Sciences, pp. 239-244, July 2015 [ISBN: 978-93-84869-63-2]

4. **Sourangsu Banerji**, Arpan Deyasi, Abhishek Halder and Sayan Bose, *"Analysis of Reflectivity for Propagating Wave inside 1D Photonic Crystal with Different Material Systems"*, International Conference on Computing, Communication & Manufacturing, pp. 162-166, Dec 2014 [ISBN: 978-0-9940194-0-0, ACEEE-CPS]

5. Arpan Deyasi, **Sourangsu Banerji**, Abhishek Halder and Sayan Bose, *"Theoretical Investigation on Photonic Bandgap Tailoring in One-Dimensional Photonic Crystal using Different Numerical Methods"*, International Conference on Devices, Circuits and Communications, pp. 1-6, Sep 2014 [IEEE Xplore, Print ISBN: 978-1-4799-6052- DOI: 10.1109/ICDCCom.2014.70247461]

6. Sayan Bose, Abhishek Halder, **Sourangsu Banerji** and Arpan Deyasi, *"First-order Calculation of Band Structure of One-Dimensional Photonic Crystal"*, National Conference on Materials, Devices and Circuits in Communication Technology [MDCCT-14], pp.: 20-23, February 2014. [ISBN: 978-93-80663-20-3]

7. **Sourangsu Banerji**, Arpan Deyasi, Abhishek Halder and Sayan Bose, *"Comparative Study of Density of States of 1D Photonic Crystal for Different Polarization Conditions of Incident Wave"*, International Conference on Electronics, Communication and Instrumentation [ICECI: 14], January 2014. [IEEE Xplore, Print ISBN: 978-1-4799-3982-4, DOI: 10.1109/ICECI.2014.6767359]