

# List of Publications

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## Journal Articles

1. **Md. Enamul Houqe**, Moushumi Das, Manash K. Biswas, Anock Somadder, Muhammad O Faurk, Sharif M. Sharafuddin, Nazia Chawdhury, Susanta K Das and Yasmeen Haque, *Effect of dipolar and quadrupolar contribution in first hyperpolarizability of dimethylaniline*, Journal of Optics, Vol. 46, P: 37 (2017).
2. M. K. Biswas, P. K. Das, **E. Hoque**, S. M. Sharafuddin, S. K. Das and Y. Haque, *Optical properties of benzene by the single thermal lens technique*, Journal of Nonlinear Optical Physics and Materials, Vol. 26, P: 1750025 (2017)
3. UK Mazumder, A Somadder, **E Hoque**, Y Haque, SK Das, HMS Gupta, *Analysis of the normal optical, Michel and molecular potentials on the  $40\text{Ca}(6\text{Li}, d)44\text{Ti}$  reaction*, Pramana 86 (6), 1275-1286 (2016).
4. M. K. Biswas, **E. Hoque**, S. M. Sharif, S. K. Das and Y. Haque, *Single beam Z-scan for the calculation of nonlinear refractive index ( $n_2$ ) for poly(2,5-dimethylaniline)*, Journal of Nonlinear Optical Physics and Materials, Vol. 24, P: 1550039 (2015)
5. MM Tasnim, K Chakrabarty, MK Biswas, **E Hoque**, SM Sharafuddin, Y Haque, *Measurement of the nonlinear refractive index of 2, 5-dimethylaniline by a new technique using Mach-Zehnder interferometer*, Journal of Nonlinear Optical Physics & Materials, Vol. 24, P: 1550004 (2015).
6. **E. Hoque**, A. Somadder, U. K. Mazumder, Y. Haque and S. K. Das, *A DWBA Study of  $60,62,64\text{Ni}(\alpha, t)61,63,65\text{Cu}$  Reactions Using Different Optical Potentials*, SUST Journal of Science and Technology, Vol. 21, P: 37 (2015).
7. M. M. Tasnim, K. Chakrabarty, M. K. Biswas, **E. Hoque**, S. M. Sharafuddin, Y. Haque, *Measurement of the nonlinear refractive index of 2, 5-dimethylaniline by a new technique using Mach-Zehnder interferometer*, Journal of Nonlinear Optical Physics and Materials, Vol. 24, P: 1550004 (2015)
8. Ponkog K. Das, Manash K. Biswas, **Enamul Hoque**, Anock Somadder, Muhammad O. Faruk, Sharafuddin Md. Sharif, Nazia Chawdhury, Susanta K. Das, Yasmeen Haque, *Nonlinear refractive index of 2, 5-Dimethylaniline in methanol by Z-scan technique*, Journal of Optics, Vol. 44, P: 146 (2014)
9. **E. Hoque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, *Nonlinear refractive index of Hibiscus Rosa-Sinensis by CW laser*, Journal of Optics, Vol. 42, P: 286 (2013).
10. A. Somadder, **E.Hoque**, U.K. Mazumder, Y.Haque and S.K. Das, *A DWBA study of the  $48\text{Ca}(\alpha, t)49\text{Sc}$  reaction using shallow (molecular), deep non-monotonic, Michel and normal optical potentials*, Eur. Phys. J. A, Vol. 49, P: 73 (2013).
11. U. K. Mazumder, A. Somadder, **E. Hoque**, S. K. Das and H. M. Sen Gupta,  *$40\text{Ca}(6\text{Li},d)44\text{Ti}$  Reaction and Effect of Three Potentials on the Spectroscopic Factors*, SUST Journal of Science and Technology, Vol. 16, No.2 P:62-71 (2012).

## Conference Articles

1. Numerical Analysis of Inverted pendulum Introduction, Mash-Huda Shipra, Khan Mahmud Enamul Hasan, Aakiful Islam, **Md. Enamul Hoque**, National Conference on Physics, University of Dhaka, (February 2019).
2. Numerical Analysis of the Dynamics of Two Charged Particles System, Shakir Ahmed, Mahiyath K Chowdhury, **E. Hoque**, National Conference on Physics, University of Dhaka, (February 2019).
3. Non-linear Optical Response of Blood Serum before and after Administration of Chemotherapy Drug, S Bhattacharjee, A. K. M. M Hossain, H Ara, **E Hoque**, S M Sharafuddin and Y Haque, National Conference on Physics, University of Dhaka, (February 2019).
4. TeLiSc OS: A Diskless Cluster Operating System for High Performance Computing, Md. Shafayet Islam, Md. Sakibul Islam, **Md. Enamul Hoque**, 3<sup>rd</sup> Student Conference on Science & Engineering (SCSE), Department of Electrical and Electronic Engineering, University of Dhaka, 24th November, 2018.
5. Numerical Analysis of Fluid Flow by Navier-Stokes Equation, S M Shah Riyadh, **E. Hoque**, Susanta Kumar Das, 2nd INTERNATIONAL BOSE CONFERENCE - 2015, December 2015
6. The Runge-Kutta Method for Simulating a Dynamical System, **E. Hoque**, Jibril Ahammad, S. Halder, S. K. Das, National Conference on Physics Research and Education in BangladeshAt: Atomic Energy Centre, Dhaka, April 2015
7. Simulation of Thermal Steady State Time for Materials, **E. Hoque**, Md. Mahfuzzaman, Shamsad Tazmin, Susanta Kumar Das, National Conference on Physics Research and Education in BangladeshAt: Atomic Energy Centre, Dhaka, April 2015
8. Effective Contribution of Second Harmonic Generation in Nonlinear Optical Scattering, **E. Haque**, M. Das, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Physics for Energy and Environment, Atomic Energy Centre, Dhaka, Bangladesh (06-08 March, 2014).
9. Nonlinear Phase Shift and Refractive Index of 2,5 dimethyleaniline by the Modified Mach-Zehnder Interferometric Technique, M. Tasnim, K. Chakrabarty, M. K. Biswas, **E. Haque**, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Physics for Energy and Environment, Atomic Energy Centre, Dhaka, Bangladesh (06-08 March, 2014).
10. Measurement of nonlinear refractive index of 2,5 di-methyl aniline (DMA) by z-scan technique using cw laser, P K Das, M. K. Biswas, **E. Haque**, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Advances in Physics 2013, Shahjalal University of Science and Technology, Sylhet, Bangladesh (03-05 January, 2013).
11. Single beam z-scan for the calculation of  $n_2$  for poly dimethyle aniline, M. K. Biswas, **E. Haque**, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Advances in Physics 2013, Shahjalal University of Science and Technology, Sylhet, Bangladesh (03-05 January, 2013).
12. Theoretical Investigation of Solvent Effect on the Hyperpolarizability of Monomer and Dimer of DMA, Z. Abdullah, **E. Haque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Advances in Physics 2013, Shahjalal University of Science and Technology, Sylhet, Bangladesh (03-05 January, 2013).

13. Measurement of Nonlinear Refractive Index with the Self-Action Method, M. R. Kader, **E. Haque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Advances in Physics 2013, Shahjalal University of Science and Technology, Sylhet, Bangladesh (03-05 January, 2013).
14. First Hyperpolarizability of 2, 5 dimethylaniline by Hyper Rayleigh Scattering Technique, M. A. T. Khan, U. K. Chowdhury, P. D. Tithi, **E. Haque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, International Conference on Advances in Physics 2013, Shahjalal University of Science and Technology, Sylhet, Bangladesh (03-05 January, 2013).
15. Estimation of Hyperpolarizability to the fundamental limit by Monte Carlo Simulation, **E. Haque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, National Conference on Advances in Physics 2012, Shahjalal University of Science and Technology, Sylhet, Bangladesh (28-29 February, 2012).
16. Nonlinear Optical Properties of Roselle Hibiscus by Z-Scan Technique, **E. Haque**, M. K. Biswas, A. Somadder, M. O. Faruk, S. M. Sharif, N. Chawdhury, S. K. Das, Y. Haque, National Conference on Advances in Physics 2012, Shahjalal University of Science and Technology, Sylhet, Bangladesh (28-29 February, 2012).