

# List of Publications

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## Journal Articles

1. **Md. Enamul Houque**, 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. 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)
4. 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)
5. 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)
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 (2014).
7. **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).
8. 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).
9. 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).

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## Conference Articles

1. 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).

2. Nonlinear Phase Shift and Refractive Index of 2,5 dimethylaniline 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).
3. 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).
4. 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).
5. 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).
6. 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).
7. 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).
8. 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).
9. 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).