

Updated till 20.12.2022

Short CV:

Manas Ghosh was born on 07th September, 1977. He did his B.Sc. in Chemistry (Hons.) from Jadavpur University in 1999 with 1st Class. He then did his M.Sc. with *Physical Chemistry* as *Special Paper* from the same University in 2001 with 1st Class. He was rewarded with *Prof. M. N. Das memorial award* for securing *highest marks in Physical Chemistry*. In the same year he obtained C.S.I.R. NET and WBSLET. He passed GATE examination in 2002. He did his Ph. D. under the supervision of **Prof. S. P.**

Bhattacharyya from Indian Association for the Cultivation of Science in Theoretical Physical Chemistry in 2008. In 2006 he joined Department of Chemistry, Visva-Bharati as an Assistant Lecturer. Currently he is an Associate Professor in the same Department. He has so far published more than **150 papers** in International Journals of repute and supervised **eight scholars** for their Ph. D degree. Presently **three students** are carrying out their doctoral research in his group. He is currently working on Chemical Physics of Mesoscopic System with special reference to their Electrical, Optical and Magnetic properties.

List of Publications in International Journals:

2004

1."A linear variational route to the polarizability of 2-D artificial atoms: effects of anharmonicity in the confinement potential"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Chemical Physics Letters* **388** (2004) 337.

2."Non-linear optical response of single carrier 2-D anharmonic Quantum dots"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Chemical Physics Letters* **397** (2004) 258.

2005

1."Maximizing second hyperpolarizability of single carrier 2D quantum dots: Interplay of strengths of confining potential, magnetic field and anharmonicity"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Chemical Physics Letters* **405** (2005) 410.

2006

1."Response of Energy Levels and Wave functions of 2-D Artificial Atoms to Changes in Parameters in the Hamiltonian"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Journal of Theoretical and Computational Chemistry* **5** (2006) 25.

2007

1."Linear and Non-linear optical response properties of singlet 2-electron quantum dots"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Chemical Physics Letters* **434** (2007) 56.

2."Response properties of 2-electron 2-D Quantum Dots: Triplet versus Singlet"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Computing Letters* **3** (2007) 183, ([Prof. A. D. Buckingham special issue](#)).

3."Target Excitation in 2-D Quantum Dots by Optimized Chirped Pulses"-**Manas Ghosh**, Rahul Sharma and S. P. Bhattacharyya; *Chemical Physics Letters* **449** (2007) 165.

4. "Linear and Non-linear response of 2-D single carrier dots: Role of impurity perturbations"- Ram Kuntal Hazra, **Manas Ghosh** and S. P. Bhattacharyya; *Chemical Physics* **333** (2007) 18.

2008

1. "Response dynamics of 2-D Quantum Dots in the presence of time-varying Fields: Anharmonicity and Pulse shape effects"-**Manas Ghosh**, Ram Kuntal Hazra and S. P. Bhattacharyya; *Chemical Physics* **345** (2008) 103.

2. "Size-Dependent Linear and Non-linear optical Response of Single Carrier 2-Dimensional Quantum Dots"-**Manas Ghosh** and S. P. Bhattacharyya; *Journal of Physics and Chemistry of Solids* **69** (2008) 981.

3. "Quantum Adiabatic Switching Route to the Impurity Modulated States of 2-D Quantum Dots with Different Switching Functions"- Ram Kuntal Hazra, **Manas Ghosh** and S.P. Bhattacharyya; *International Journal of Quantum Chemistry* **108** (2008) 719.

4. "Modulation of the Electronic States of 2-D Single Carrier Quantum Dots due to Presence of Hole Doped Impurity Perturbations"- Ram Kuntal Hazra, **Manas Ghosh** and S. P. Bhattacharyya; *Chemical Physics* **344** (2008) 61.

5. "Information entropy and level spacing distribution based signatures of quantum chaos in electron doped 2D single carrier quantum dots"- Ram Kuntal Hazra, **Manas Ghosh** and S. P. Bhattacharyya; *Chemical Physics Letters* **460** (2008) 209.

6. "Frequency Dependent Linear and Non-linear Response Properties of Single Carrier Quantum Dots: Role of Effective Mass and Anharmonicity in the Confinement Potential"- Parikshit Mandal and **Manas Ghosh**; *Physica B* **403** (2008) 2967.

7. "Influence of Effective Mass in Modulating Size-dependent Linear and Non-linear Polarization of Single Carrier 2-Dimensional Anharmonic Quantum Dots"-Parikshit Mandal and **Manas Ghosh**; *Physica E* **41** (2008) 110.

8. "Modulation of Energy Levels, Wave Functions and Dynamics of 2-D One Electron Quantum Dots: Influence of Size"-Parikshit Mandal and **Manas Ghosh**; *Chemical Physics* **353** (2008) 37.

9. "Role of Effective Mass in Modulating Linear and Non-linear Response Properties of Single Carrier Quantum Dots: Interplay with System Parameters"- **Manas Ghosh**, Parikshit Mandal and S. P. Bhattacharyya; *Journal of Physics and Chemistry of Solids* **69** (2008) 2864.

2009

1. "Metastable Impurity Perturbed States of 2D Single Carrier Quantum Dots"- Ram Kuntal Hazra, **Manas Ghosh** and S. P. Bhattacharyya; *Chemical Physics Letters* **468** (2009) 216.

2. "Dynamics of 2-D One Electron Quantum Dots in Pulsed Field: Influence of Size"- Parikshit Mandal and **Manas Ghosh**; *Journal of Physics and Chemistry of Solids* **70** (2009) 680.

3. "Dynamics of 2-D One Electron Quantum Dots in Periodically Fluctuating Confinement Potential: Influence of Size and Anharmonicity"-Parikshit Mandal and **Manas Ghosh**; *Journal of Luminescence* **129** (2009) 1249.

4. "Dynamics of 2-D One Electron Quantum Dots in Time-dependent Magnetic Field: Influence of Size"-Parikshit Mandal and **Manas Ghosh**; *Physica B*. **404** (2009) 3830.

2010

1. "Frequency Dependent Linear and Non-linear Response Properties of Electron Impurity Doped Quantum Dots: Influence of Impurity Location"- Kanchan Sarkar, Nirmal Kr Datta and **Manas Ghosh**; *Physica E* **42** (2010) 1659.

2. "Tunneling in 2-D Quantum Dots via Quantum Adiabatic Switching Route"- **Manas Ghosh**, Subhasree Ghosh and S. P. Bhattacharyya; *Journal of Physics and Chemistry of Solids* **71** (2010) 745.

3. "Oscillatory Impurity Potential Induced Dynamics of Doped Quantum Dots: Analysis based on Coupled Influence of Impurity Coordinate and Impurity Influenced Domain"-Nirmal Kr Datta and **Manas Ghosh**; *Chemical Physics* **372** (2010) 82.

4. "2-d Quantum Dots in Polychromatic Radiation Fields: Effects of Frequency Mixing, Phase and Anharmonicity on the Freezing of Dynamics"- Subhasree Ghosh, Parikshit Mandal and **Manas Ghosh**; *Journal of Theoretical and Computational Chemistry* **9** (2010) 293.

5. "Repulsive Impurity Doped Quantum Dot Subjected to Oscillatory Confinement Potential: Role of Dopant Strength and Dopant Location on Time-Evolution"-Nirmal Kr Datta and **Manas Ghosh**; *Solid State Science* **12** (2010) 1620.

6. "Role of Impurity Strength and Impurity Domain on Excitation of Doped Quantum Dot Induced by Discontinuously Reversing Pulsed Field"-Nirmal Kr Datta, Subhasree Ghosh and **Manas Ghosh**; *Journal of Applied Physics* **108** (2010) 104305.

7. "Dynamics of Electron Impurity Doped Quantum Dots in the presence of Time-Varying Fields: Influence of Impurity Location"-Kanchan Sarkar, Nirmal Kr Datta and **Manas Ghosh**; *Physica E* **43** (2010) 345.

8. "Excitations in Doped Quantum Dot Driven by Discontinuously and Randomly Reversing Electric Field: Influence of Impurity"-Nirmal Kr Datta, Subhasree Ghosh and **Manas Ghosh**; *Chemical Physics* **378** (2010) 66.

2011

1. "Impurity Modulated Excitation Profile of Doped Quantum Dot Subject to Oscillatory Magnetic Field"-Nirmal Kr Datta and **Manas Ghosh**; *Materials Chemistry and Physics* **126** (2011) 693.

2. "Role of Impurity Influenced Domain on Excitation Profile of Doped Quantum Dot Subject to Oscillatory Confinement Potential"-Nirmal Kr Datta and **Manas Ghosh**; *Journal of Luminescence* **131** (2011) 795.

3. "Excitations in doped quantum dot induced by randomly fluctuating magnetic field: influence of impurity"-Nirmal Kr Datta and **Manas Ghosh**; *European Physical Journal B* **80** (2011) 95.
4. "Excitations in doped quantum dot driven by periodically fluctuating impurity domain"- Kashinath Chatterjee, Nirmal Kumar Datta and **Manas Ghosh**; *Journal of Applied Physics* **109** (2011) 104310.
5. "Excitations in doped quantum dot insisted by time-dependent sluggish enhancement in dot-impurity overlap"-Nirmal Kr Datta and **Manas Ghosh**; *Chemical Physics Letters* **509** (2011) 37.
6. "Interplay between size and impurity position of doped quantum dot"-Kanchan Sarkar, Nirmal Kr Datta and **Manas Ghosh**; *Superlattices and Microstructures*. **50** (2011) 69.
7. "Excitations in Doped Quantum Dot Induced by Randomly Fluctuating Confinement Potential: Influence of Impurity"-Nirmal Kr Datta and **Manas Ghosh**; *Current Applied Physics* **11** (2011) 1222.
8. "Impurity strength and impurity domain modulated frequency-dependent linear and second non-linear response properties of doped quantum dots"-Nirmal Kr Datta and **Manas Ghosh**; *Physica Status Solidi B* **248** (2011) 1941.
9. "Excitations in doped quantum dot driven by linear and non-linear drift of impurity"- Nirmal Kr Datta and **Manas Ghosh**; *Solid State Science* **13** (2011) 1531.
10. "Excitations in doped quantum dot induced by accelerating impurity center"-Nirmal Kr Datta and **Manas Ghosh**; *Journal of Applied Physics* **110** (2011) 054314.
11. "Impurity controlled excitations in doped quantum dot exposed to periodic external perturbation"- Nirmal Kr Datta, Debashis Konar and **Manas Ghosh**; *Microelectronic Engineering*. **88** (2011) 3306.

2012

1. "Excitations in doped quantum dot insisted by discontinuous reversals of static electric field: interplay between pulse and dopant site"- Nirmal Kr Datta, Subhasree Ghosh and **Manas Ghosh**; *Superlattices and Microstructures*. **51** (2012) 163.
2. "The randomly fluctuating impurity strength initiated excitation in doped quantum dots"-Nirmal Kr Datta and **Manas Ghosh**; *Superlattices and Microstructures*. **51** (2012) 690.
3. "Influence of relative confinement oscillation and concomitant oscillatory impurity domain on excitation profile of doped quantum dots"-Nirmal Kr Datta, Suvajit Pal and **Manas Ghosh**; *Chemical Physics* **400** (2012) 44.
4. "Impurity modulated static linear and first non-linear polarizabilities of doped quantum dots"-Nirmal Kr Datta and **Manas Ghosh**; *ISRN Optics*. Vol. **2012**, Article ID 847532, 8 pages. ([Invited Article](#)).
5. "Influence of impurity propagation and concomitant enhancement of impurity spread on excitation profile of doped quantum dots"-Nirmal Kr Datta, Suvajit Pal and **Manas Ghosh**; *Journal of Applied Physics* **112** (2012) 014324.
6. "Rabi type oscillations in damped single electron 2d-quantum dots"- Madhury Mukhopadhyay, Ram Kuntal Hazra, **Manas Ghosh**, Samaresh Mukherjee and S. P. Bhat tacharyya; *Central European Journal of Physics* **10** (2012) 983, ([Invited Article](#)).

7. "Impurity controlled excitations in doped quantum dot induced by rectified sinusoidal field"-Suvajit Pal, Nirmal Kr Datta and **Manas Ghosh**; *Micro and Nanosystems* **4** (2012) 314. ([Invited Article](#)).

8. "Influence of Gaussian and Saw-tooth pulses in modulating excitation kinetics of impurity doped quantum dots"-Suvajit Pal and **Manas Ghosh**; *CCAAS Chem Journal* **2** (2012) 52 ([Invited Article](#)).

9."Influence of periodically propagating impurity and accompanying time-variation of impurity spread on excitation profile of doped quantum dots"-Suvajit Pal and **Manas Ghosh**; *Journal of Theoretical and Applied Physics* (2012), **6**:42 ([Invited Article](#)).

2013

1. "Influence of pulse shape in modulating excitation kinetics of impurity doped quantum dots", Suvajit Pal and **Manas Ghosh**^{*}; *Superlattices and Microstructures*. **55** (2013) 118.

2."Influence of oscillatory impurity potential and concurrent gasping of impurity spread on excitation profile of doped quantum dots", Suvajit Pal and **Manas Ghosh**^{*}; *Journal of Materials*. (2013) Article ID 795450, 7 pages, ([Invited Article](#)).

3."Influence of external field and consequent impurity breathing on excitation profile of doped quantum dots", Suvajit Pal and **Manas Ghosh**^{*}; *Journal of Luminescence* **138** (2013) 48.

4."Excitation kinetics of impurity doped quantum dot triggered by Gaussian white noise", Suvajit Pal, Sudarson Sekhar Sinha, Jayanta Ganguly and **Manas Ghosh**^{*}; *ISRN Condensed Matter Physics*. Vol. **2013**, Article ID 798153, 6 pages, ([Invited Article](#)).

5."Excitation kinetics of quantum dot induced by damped propagation of dopant: Role of confinement potential and magnetic field", Suvajit Pal and **Manas Ghosh**^{*}; *Chemical Physics* **423** (2013) 15.

6."Influence of Damped Propagation of Dopant on the Excitation Kinetics of Doped Quantum Dots"-Suvajit Pal, Nirmal Kr Datta and **Manas Ghosh**^{*}; *Journal of Physical Chemistry C* **117** (2013) 14435-14440.

7."Modulation of excitation kinetics of impurity doped quantum dots by the interplay between confinement sources and multiplicative Gaussian white noise", Jayanta Ganguly, Suvajit Pal and **Manas Ghosh**^{*}; *Superlattices and Microstructures*. **63** (2013) 110-120.

8."Additive Gaussian white noise modulated excitation kinetics of impurity doped quantum dots: Role of confinement sources", Jayanta Ganguly, Suvajit Pal and **Manas Ghosh**^{*}; *Superlattices and Microstructures*. **63** (2013) 215-227.

9."Excitation kinetics of impurity doped quantum dot driven by Gaussian white noise: Interplay with external field", Suvajit Pal, Sudarson Sekhar Sinha, and Jayanta Ganguly and **Manas Ghosh**^{*}; *Chemical Physics* **426** (2013) 54-58.

10."Coupled influence of damped propagation of dopant and oscillatory confinement sources on excitation kinetics of doped quantum dot", Suvajit Pal and **Manas Ghosh**^{*}; *European Physical Journal B* **86** (2013) 498 (7 pages).

2014

1. "Coupled influence of damped propagation of dopant and external oscillatory field on excitation kinetics of doped quantum dot", Suvajit Pal and **Manas Ghosh***; *Physica Status Solidi B* 251 (2014) 462-468.
2. "Influence of noise shape on excitation kinetics of impurity doped quantum dots"-Suvajit Pal, Sudarson Sekhar Sinha, Jayanta Ganguly and **Manas Ghosh**, *Manufacturing Review* 1 (2014) 1- 8 ([Invited Article](#)).
3. "Influence of Gaussian white noise on the frequency-dependent first nonlinear polarizability of doped quantum dot"-Jayanta Ganguly and **Manas Ghosh**, *Journal of Applied Physics* 115 (2014) 174313 (10 pages).
4. "Influence of Gaussian white noise on the frequency-dependent linear polarizability of doped quantum dot"-Jayanta Ganguly and **Manas Ghosh**, *Chemical Physics* 438 (2014) 75-82.
5. "Coupled influence of noise and damped propagation of impurity on excitation kinetics of doped quantum dots"- Jayanta Ganguly, Suvajit Pal and **Manas Ghosh**, *Journal of Advanced Physics* 3 (2014) 1-11.
6. "Influence of damping on the frequency-dependent polarizabilities of doped quantum dot"-Suvajit Pal and **Manas Ghosh**, *Superlattices and Microstructures* 73 (2014) 239-255.
7. "Influence of damped propagation of dopant on the static and frequency-dependent third nonlinear polarizability of quantum dot"-Suvajit Pal and **Manas Ghosh**, *Chemical Physics Letters* 608 (2014) 284-288.
8. "Nucleation of charged droplets; an ion-atmosphere model"- **Manas Ghosh**, *RSC Advance*, 4 (2014) 45275-45285.
9. "Influence of damped propagation of dopant on the off-diagonal components of static linear and non-linear polarizabilities of quantum dots"- Suvajit Pal, Surajit Saha and **Manas Ghosh**, *Journal of Modern Physics and Applications*, 2014, 2014:8 ([Invited Article](#)).
10. "Modulation of off-diagonal components of static linear and nonlinear polarizabilities of doped quantum dots by coupled influence of noise and damped propagation of impurity"- Jayanta Ganguly, Surajit Saha, and **Manas Ghosh**; *Science Postprint*, 1(1): e00036. (2014), ([Invited Article](#)).

2015

1. "Blending damped drift of impurity with noise: Impact on off-diagonal components of frequency-dependent linear and nonlinear polarizabilities of quantum dots"- Jayanta Ganguly, Surajit Saha, and **Manas Ghosh**; *Chemical Physics Letters*, 619 (2015) 49-53.
2. "Coupled influence of noise and damped propagation of impurity on linear and nonlinear polarizabilities of doped quantum dots" Jayanta Ganguly and **Manas Ghosh**, *Chemical Physics*, 447 (2015) 54-59.

3. "Exploring static and frequency-dependent third nonlinear polarizability of doped quantum dots driven by Gaussian white noise"- Jayanta Ganguly and **Manas Ghosh**, *Physica Status Solidi B*, 252 (2015) 289-297.
4. "Influence of damped propagation of dopant on the static linear and nonlinear polarizabilities of quantum dot"- Suvajit Pal and **Manas Ghosh**, *Review of Applied Physics*, Volume 4, Issue 1, May 2015), ([Invited Article](#)).
5. "Exploring off-diagonal frequency-dependent linear and nonlinear polarizabilities of quantum dot induced by damped drift of impurity"- Suvajit Pal, Surajit Saha and **Manas Ghosh**, *Science Postprint*, 1(2): e00043. (2015), ([Invited Article](#)).
6. "Profiles of off-diagonal components of static linear and nonlinear polarizabilities of doped quantum dots driven by Gaussian white noise "- Surajit Saha, Jayanta Ganguly and **Manas Ghosh**, *Open Optics Journal*, 9 (2015) 7-13, ([Invited Article](#)).
7. "Tuning diagonal components of static linear and first nonlinear polarizabilities of doped quantum dots by Gaussian white noise"- Jayanta Ganguly and **Manas Ghosh**, *Journal of Physics and Chemistry of Solids*, 82 (2015) 76-81.
8. "Polarizabilities of impurity doped quantum dots under pulsed field: Role of additive white noise"- Surajit Saha and **Manas Ghosh**, *Open Journal of Microphysics*, 05 (2015) 01-10, ([Invited Article](#)).
9. "Polarizabilities of impurity doped quantum dots under pulsed field"-Surajit Saha and **Manas Ghosh**, *Science Postprint*, 1(2): e00043 (2015), ([Invited Article](#)).
10. "Fabricating off-diagonal components of frequency-dependent linear and nonlinear polarizabilities of doped quantum dots by Gaussian white noise"-Surajit Saha, Jayanta Ganguly and **Manas Ghosh**, *Physica B*, 468-469 (2015) 25-33.
11. "Oscillator strength of impurity doped quantum dots: Influence of Gaussian white noise"-Suvajit Pal, Jayanta Ganguly, Surajit Saha and **Manas Ghosh**, *Physica B*, 474 (2015) 41-46.
12. "Analyzing optical absorption coefficients of impurity doped quantum dots in presence of noise with special emphasis on electric field, magnetic field and confinement potential"- Arkajit Mandal, Sucharita Sarkar, Arghya Pratim Ghosh and **Manas Ghosh**, *Chemical Physics*, 463 (2015) 149-158.
13. "Exploring optical refractive index change of impurity doped quantum dots driven by white noise"- Surajit Saha, Suvajit Pal, Jayanta Ganguly and **Manas Ghosh**, *Superlattices and Microstructures*, 88 (2015) 620-633.
14. "Influence of position-dependent effective mass on optical refractive index change of impurity doped Quantum dots in presence of Gaussian white noise"- Suvajit Pal, Jayanta Ganguly, Surajit Saha and **Manas Ghosh**, *Science Postprint*, 1(2): e00055. doi:10.14340/spp.2015.12A0002.

2016

1. "Noise-driven optical absorption coefficients of impurity doped quantum dots"-Jayanta Ganguly, Surajit Saha, Suvajit Pal and **Manas Ghosh**, *Physica E*, 75 (2016) 246-256.

2. "Exploring electro-optic effect of impurity doped quantum dots in presence of Gaussian white noise"- Suvajit Pal, Jayanta Ganguly, Surajit Saha and **Manas Ghosh**, *Journal of Physics and Chemistry of Solids*, 88 (2016) 85-95.
3. "Fabricating third-order nonlinear optical susceptibility of impurity doped quantum dots in presence of Gaussian white noise" - Jayanta Ganguly, Surajit Saha, Suvajit Pal and **Manas Ghosh**, *Optics Communications*, 363 (2016) 47-56.
4. "Tuning third harmonic generation of impurity doped quantum dots in presence of Gaussian white noise"-Surajit Saha and **Manas Ghosh**, *Journal of Physics and Chemistry of Solids*, 90 (2016) 69-79.
5. "Modulating nonlinear optical properties of impurity doped Quantum dots via the interplay between anisotropy and Gaussian white noise"- Sucharita Sarkar, Arghya Pratim Ghosh, Arkajit Mandal and **Manas Ghosh**, *Superlattices and Microstructures*, 90 (2016) 297-307.
6. "Polarizabilities of impurity doped quantum dots under pulsed field: Role of multiplicative white noise"- Surajit Saha and **Manas Ghosh**, *Brazilian Journal of Physics*, 46 (2016) 41-49.
7. "Influence of position-dependent effective mass on third-order nonlinear optical susceptibility of impurity doped Quantum dots in presence of Gaussian white noise"- Surajit Saha, Suvajit Pal, Jayanta Ganguly and **Manas Ghosh**, *Physica B*, 484 (2016) 109-113.
8. "Influence of position-dependent effective mass on the nonlinear optical properties of impurity doped Quantum dots in presence of Gaussian white noise"- Arghya Pratim Ghosh, Arkajit Mandal, Sucharita Sarkar and **Manas Ghosh**, *Optics Communications*, 367 (2016) 325-334.
9. "Influence of anisotropy on the optical refractive index change of impurity doped Quantum dots in presence of Gaussian white noise"- Jayanta Ganguly, Surajit Saha, Suvajit Pal and **Manas Ghosh**, *Current Nanomaterials*, 1 (2016) 69-74.
10. "Noise-driven diamagnetic susceptibility of impurity doped quantum dots: Role of anisotropy, position-dependent effective mass and position-dependent dielectric screening function"-Aindrila Bera, Surajit Saha, Jayanta Ganguly and **Manas Ghosh**, *Chemical Physics* 474 (2016) 36-43.
11. "Interplay between noise and position-dependent dielectric screening function in modulating nonlinear optical properties of impurity doped quantum dots"- Aindrila Bera, Jayanta Ganguly, Surajit Saha, and **Manas Ghosh**, *Optik* 127 (2016) 6771-6778.
12. "Modulating optical second harmonic generation of impurity doped quantum dots in presence of Gaussian white noise"- Jayanta Ganguly and **Manas Ghosh**, *Physica Status Solidi B*, 253 (2016) 1093-1103.
13. "Influence of anisotropy and position-dependent effective mass on electro-optic effect of impurity doped quantum dots in presence of Gaussian white noise"- Surajit Saha, Jayanta Ganguly, Suvajit Pal and **Manas Ghosh**, *Chemical Physics Letters*, 658 (2016) 254-258.
14. "Tailoring nonlinear optical rectification coefficient of impurity doped quantum dots by invoking Gaussian white noise"-Suvajit Pal and **Manas Ghosh**, *Optical and Quantum Electronics*, 48 (2016) 372 (18 pages).

15. "Exploring diamagnetic susceptibility of impurity doped quantum dots in presence of Gaussian white noise"- Aindrila Bera, Surajit Saha, Jayanta Ganguly and **Manas Ghosh**, *Journal of Physics and Chemistry of Solids*, 98 (2016) 190-197.

16. "Combined influence of hydrostatic pressure and temperature on interband emission energy of impurity doped quantum dots in presence of noise"- Aindrila Bera and **Manas Ghosh**, *Physica B*, 500 (2016) 24-31.

17. "Modulating optical rectification, second and third harmonic generation of doped quantum dots: Interplay between hydrostatic pressure, temperature and noise"- Jayanta Ganguly, Surajit Saha, Aindrila Bera and **Manas Ghosh**, *Superlattices and Microstructures*, 98 (2016) 385-399.

18. "Influence of position-dependent effective mass, position-dependent dielectric screening function and anisotropy on the binding energy and interband emission energy of impurity doped quantum dots in presence of Gaussian white noise"-Anuja Ghosh, Aindrila Bera and **Manas Ghosh**, *Biointerface Research in Applied Chemistry*, 6 (2016) 1573-1579.

19. "Simultaneous influence of hydrostatic pressure and temperature on diamagnetic susceptibility of impurity doped quantum dots under the aegis of noise"-Surajit Saha, Jayanta Ganguly, Aindrila Bera and **Manas Ghosh**, *Chemical Physics*, 480 (2016) 17-22.

20. "Noise-modulated effects of anisotropy and position-dependent effective mass on the oscillator strength of impurity doped quantum dots"- Sucharita Sarkar, Arghya Pratim Ghosh, Arkajit Mandal and **Manas Ghosh**; *Journal of Advances in Nanomaterials*, 1 (2016) 64-72.

2017

1. "Exploring Optical Dielectric Function of Impurity Doped Quantum Dots in Presence of Gaussian White Noise"- Surajit Saha, Suvajit Pal, Jayanta Ganguly and **Manas Ghosh**, *Journal of Advanced Physics*, 6 (2017) 48-55.

2. "Influence of Hermanson's dielectric screening function on the nonlinear optical Properties of impurity doped quantum dots in presence of Gaussian white noise"-Aindrila Bera, Surajit Saha, Jayanta Ganguly and **Manas Ghosh**; *Journal of Advanced Physics*, 6 (2017) 87-95.

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5. "Simultaneous influence of hydrostatic pressure and temperature on binding energy of impurity doped quantum dots in presence of noise"- Aindrila Bera and **Manas Ghosh**; *Journal of Alloys and Compounds*, 695 (2017) 3054-3060.

6. "Optical dielectric function of impurity doped Quantum dots in presence of noise"- Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Advances in Nano Research*, 4 (2017) 13-25.

7. "Role of anisotropy, spatially-varying effective mass and dielectric constant on the self-polarization effect of doped quantum dots in presence of noise"- Anuja Ghosh and **Manas Ghosh**; *Superlattices and Microstructures*, 104 (2017) 438-444.

8. "Influence of noise on the self-polarization effect of impurity doped quantum dots"- Anuja Ghosh and **Manas Ghosh**; *Advanced Nano-Bio-Materials & Devices*, 1 (2017) 1-13.

9. "Dipole moment and polarizability of impurity doped quantum dots driven by noise: Influence of hydrostatic pressure and temperature"- Aindrila Bera and **Manas Ghosh**; *Physica B*, 515 (2017) 18-22.

10. "Influence of binding energy on dipole moment, polarizability and self-polarization effect of impurity doped quantum dots: Role of noise"- Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Chemical Physics Letters*, 678 (2017) 119-122.

11. "Nonlinear optical properties of doped quantum dots: Interplay between noise and carrier density"- Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Optical Materials*, 69 (2017) 352-357.

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13. "Role of carrier density on the nonlinear optical properties of doped quantum dots under the supervision of noise"- Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Optik*, 142 (2017) 590-597.

14. "Modulating binding energy and interband emission energy of impurity doped Quantum dots in presence of Gaussian white noise"- Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Current Smart Materials*, 2 (1) (2017) 56-64.

15. "Noise-induced total optical absorption coefficient and refractive index change of impurity doped quantum dots under simultaneous influence of hydrostatic pressure and temperature"- Aindrila Bera and **Manas Ghosh**; *Current Physical Chemistry*, 7 (3) (2017) 243-253.

16. "Dipole moment and polarizability of impurity doped quantum dots: Role of noise"- Anuja Ghosh and **Manas Ghosh**; *Recent Advances in Communications and Networking Technology*, 6(2) (2017) 93 – 103.

2018

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2. "Stark shift of impurity doped quantum dots: Role of noise"-Sk. Md. Arif, Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Chemical Physics*, 501 (2018) 101-109.

3. "Exploring DC-Kerr effect of impurity doped quantum dots under the aegis of noise"- Sk. Md. Arif, Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Optical Materials*, 76 (2018) 237-252.

4. "Exploration of dynamic dipole polarizability of impurity doped quantum dots in presence of noise"- Anuja Ghosh, Aindrila Bera, Surajit Saha, Sk. Md. Arif and **Manas Ghosh**; *Superlattices and Microstructures*, 114 (2018) 259-273.

5. “Modulation of static dipole polarizability of impurity doped quantum dots in presence of noise”- Aindrila Bera, Anuja Ghosh, Surajit Saha, Sk. Md. Arif and **Manas Ghosh**; *Journal of Alloys and Compounds*, 742 (2018) 142-150.

6. “Modulating electro-absorption coefficient of impurity doped quantum dots driven by noise”- Sk. Md. Arif, Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Photonics and Nanostructures-Fundamentals and Applications*, 31 (2018) 08-21.

7. “Analyzing the correction factor relevant to Kerr nonlinearity in impurity doped quantum dots for a passage from non-absorbing to absorbing media: Role of noise”- Sk. Md. Arif, Anuja Ghosh, Aindrila Bera and **Manas Ghosh**; *Journal of Physics and Chemistry of Solids*, 121 (2018) 54-61.

2019

1. “Tuning diamagnetic susceptibility of impurity doped quantum dots by noise-binding energy interplay”- Sk. Md. Arif, Aindrila Bera and **Manas Ghosh**; *Heliyon*, 5 (2019) e01147.

2. “Exploring the nonlinear optical properties of impurity doped quantum dots in the light of noise-binding energy interplay”- Sk. Md. Arif, Aindrila Bera and **Manas Ghosh**; *Results in Physics*, 13 (2019) 102139 (8 pages).

3. “Analyzing magnetic susceptibility of impurity doped quantum dots in presence of noise”- Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Journal of Magnetism and Magnetic Materials*, 484 (2019) 391-402.

4. “Influence of noise-binding energy interplay on DC-Kerr effect and electro-absorption coefficient of impurity doped quantum dots”- Anuja Ghosh, Sk. Md. Arif and **Manas Ghosh**; *Heliyon*, 5 (2019) e01832.

5. “Influence of noise-binding energy interplay on the second and third-order nonlinear optical properties of impurity doped quantum dots”- Anuja Ghosh, Sk. Md. Arif and **Manas Ghosh**; *Heliyon*, 5 (2019) e01785.

6. “Impurity related optical properties in tuned quantum dot/ring systems” –Suvajit Pal, **Manas Ghosh** and Carlos Alberto Duque; *Philosophical Magazine*, 99 (2019) 2457-2486.

7. “Role of noise-binding energy interplay on Stark shift and dipole polarizabilities of impurity doped quantum dots”- Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Journal of Optoelectronics & Advanced Materials*, 21 (2019) 499-504.

2020

1. “Magnetic susceptibility of doped quantum dots: Interplay between binding energy and noise”- Anuja Ghosh, Sk. Md. Arif and **Manas Ghosh**; *Biointerface Research in Applied Chemistry*, 10 (2020) 5376-5381.

2. “Analyzing role of relaxation time on second harmonic generation and optical dielectric function of impurity doped quantum dots under the aegis of noise”- Sk. Md. Arif, Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Physica B*, 588 (2020) 412166 (07 pages).

3. “Transition kinetics of impurity doped quantum dots under time-dependent confinement potential: Role of noise”- Anuja Ghosh, Sk. Md. Arif, Aindrila Bera and **Manas Ghosh**; *European Physical Journal B*, 93 (2020) 91 (11 pages).
4. Transition kinetics of impurity doped quantum dots under time-varying magnetic field: Role of noise”- Aindrila Bera, Anuja Ghosh, Sk. Md. Arif and **Manas Ghosh**; *Superlattices and Microstructures*, 143 (2020) 106554 (13 pages).
5. “Transition kinetics of impurity doped quantum dots driven by sinusoidal field: Role of Gaussian white noise”- Sk. Md. Arif, Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Chinese Journal of Physics*, 66 (2020) 112-123.
6. “Profiles of static quadrupole polarizability of impurity doped quantum dots driven by Gaussian white noise”- Anuja Ghosh, Sk. Md. Arif, Aindrila Bera and **Manas Ghosh**; *Physica Status Solidi B* 257 (2020) 1900766 (09 pages).
7. “Exploring quadrupole oscillator strength of impurity doped quantum dots controlled by Gaussian white noise”- Aindrila Bera, Anuja Ghosh, Sk. Md. Arif and **Manas Ghosh**; *European Physical Journal D* 74 (2020) 230 (08 pages).

2021

1. “Exploring noise-effect on the intraband transition lifetime of impurity doped quantum dots”- Sk. Md. Arif, Aindrila Bera, Anuja Ghosh and **Manas Ghosh**; *Biointerface Research in Applied Chemistry*, 11 (2) (2021) 8639-8653.
2. “Adiabatic switching among quantum dot eigenstates: Role of anharmonicity and Gaussian white noise”- Debi Roy, Sk. Md. Arif and **Manas Ghosh**; *Physica Status Solidi B* 258 (2021) 2100295 (14 pages), [PSS 60th Anniversary Special Issue](#).

2022

1. “Exploring quantum adiabatic switching among impurity-modulated states in doped quantum dots: Role of Gaussian white noise”- Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *Physica B* 625 (2022) 413477 (16 pages).
2. “Analyzing group index of impurity doped quantum dots under the superintendence of Gaussian white noise”-Sk. Md. Arif, Aindrila Bera, Debi Roy and **Manas Ghosh**; *European Physical Journal B* 95 (2022) 21 (18 pages).
3. “Influence of noise-anharmonicity interplay on a few physical properties of quantum dot”- Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *Physica Status Solidi B* 259 (2022) 2100497.
4. “Profiles of optical gain of impurity doped quantum dots under the stewardship of Gaussian white noise”- Sk. Md. Arif, Debi Roy, Aindrila Bera and **Manas Ghosh**; *Physica Status Solidi B* 259 (2022) 2200035.
5. “Pulsed field induced excitation in impurity doped quantum dot: Interplay with Gaussian white noise”- Swarnab Datta, Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *Physica B* 643 (2022) 414163.

6. "Sonogashira coupling reaction and its application in dendrimer synthesis"- Pritam Roy Chowdhury, Debabrata Singha, Sudeshna Sawoo, **Manas Ghosh** and Nilasish Pal; *Asian Journal of Chemistry* 34 (2022) 1939-1957.
7. "Modulation of electrical and optical properties of quantum dot by noise-anharmonicity Interplay"- Debi Roy, Sk. Md. Arif and **Manas Ghosh**; *Brazilian Journal of Physics* 52 (2022) 178 (19 pages).
8. "Excitation Dynamics among Impurity Doped Quantum Dot Eigenstates in a Polychromatic Field: Role of Gaussian White Noise"- Swarnab Datta, Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *ChemistrySelect* 07 (2022) e202202244 (10 pages).
9. "Chirped pulsed field initiated excitation dynamics in impurity doped quantum dot under the influence of noise"- Sk. Md. Arif, Swarnab Datta, Debi Roy and **Manas Ghosh**; *European Physical Journal Plus* 137 (2022) 1170 (12 pages).
10. "Analyzing time-average excitation rate among quantum dot eigenstates triggered by time-dependent noise strength"- Swarnab Datta, Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *Physica Status Solidi B* 259 (2022) 2200216 (09 pages).
11. "Tuning the nonlinear optical properties of quantum dot by noise-anharmonicity interplay"- Debi Roy, Sk. Md. Arif, Swarnab Datta and **Manas Ghosh**; *Atoms* 10 (2022) 122 (32 pages), **Special Issue Entitled "Quantum Dynamics of Matter in Tailored Intense Fields"**
12. "Transitions among doped *GaAs* quantum dot eigenstates initiated by time-varying impurity potential: Influence of noise"- Swarnab Datta, Sk. Md. Arif, Debi Roy and **Manas Ghosh**; *Biointerface Research in Applied Chemistry*, (in press, 2022).

Books:

Excitation in Impurity Doped Quantum Dots: Role of Impurity Parameters by **Manas Ghosh** and Nirmal Kumar Datta, Research Level Book, *Lambert Academic Publishing, (Germany)*, ISBN-13: 978-3-8443-8932-6, ISBN: 3-8443-8932-6, published in 2012.

Area of Research:

Our research area includes Chemical Physics of Mesoscopic Systems. We generally study theoretically the chemical physics underlying various electronic and optical properties of mesoscopic systems.

Group Members:

Previous

1. **Dr. Parikshit Mandal**, awarded in 2012, Thesis title: '*Studies on some Aspects of Optical Properties and Dynamics of 2-dimensional One Electron Quantum Dots*'. He is currently an Assistant Teacher in Srinanda High School, Jambuni, Bolpur.
2. **Dr. Nirmal Kumar Datta**, awarded in 2013, Thesis title: '*Investigations on some Dynamical Aspects of Impurity Doped Quantum Dots*'. He is currently an Assistant Professor in the Department of Physics, Suri Vidyasagar College, Suri, Birbhum 731101, West Bengal, India.

3. **Dr. Suvajit Pal**, awarded in 2015, Thesis title: '*Investigations on Excitation Kinetics of Impurity Doped Quantum dots with Special Reference to Damping*'. He is currently an Assistant Teacher, Hetampur Raj High School, Hetampur, Birbhum(WB), 731124.
4. **Dr. Jayanta Ganguly**, awarded in 2016, Thesis title: '*Investigations on Excitation Kinetics and Polarizabilities of Impurity Doped Quantum dots Driven by Gaussian White Noise*'. He is currently an Assistant Teacher, Brahmankhanda Basapara High School, Basapara, Birbhum(WB) 731235.
5. **Dr. Surajit Saha**, awarded in 2017, Thesis title: '*Investigations on Nonlinear Optical Properties of Impurity Doped Quantum Dots Induced by Gaussian White Noise*'. He is currently an Assistant Professor, Bidhan Chandra College, Asansol, India.
6. **Dr. Anuja Ghosh**, awarded in 2021, Thesis title: '*Studies on some Electronic Structural Aspects and Optical Properties of Impurity Doped Quantum Dot Driven by Noise*'.
7. **Dr. Aindrila Bera**, awarded in 2021, Thesis title: '*Investigation on Profiles of Noise-driven Optical and Magnetic Properties of Impurity Doped Quantum Dot with Special Reference to Hydrostatic Pressure and Temperature*'.
8. **Dr. Sk. Md. Arif**, awarded in 2022, Thesis title: '*Exploration of Optical and Electrical Properties of Impurity Doped Quantum Dot under the Aegis of Noise*'.

Current

1. **Mr. Debabrata Singha**
2. **Ms. Debi Roy**
3. **Mr. Swarnab Datta**

Seminar/Symposium/Conference:

Invited Speaker:

1. "Chemical Research in the First Decade of 21st Century", CRSI, Kolkata Chapter, Symposium-IX, organized by Department of Chemistry, Visva-Bharati, August 06, 2011. Title of Lecture: "*Excitation in Doped Quantum Dot Driven by Drift of Impurity*".

Oral Presentations:

1. "Acharya P. C. Ray National Young Scientists Conference (APCRNYSC-2012)", organized by Presidency University, University of Calcutta, and Vivekananda Vijnan Mission, February 17-18, 2012. Title of Lecture: "*Impurity Drift Induced Excitation in Doped Quantum Dots*".
2. 14th February, 2015: National Seminar on "Multifunctional Polymer Materials (Poly-2014)" organized by Department of Chemistry, Visva-Bharati and Prof. Sukumar Maity Polymer

Award Foundation, from February 14-15, 2015; **Dr. Manas Ghosh** made an oral presentation on “*Noise-dependent Second-order Polarizability of Impurity Doped Quantum Dots*”.

Poster Presentations:

1. “National Symposium on Theoretical Chemistry (NSTC-2004)”, Bhaba Atomic Research Centre, Mumbai, 09-12 December 2004. Title: ‘*The Electronic Structure and Response Properties of Single Carrier Artificial Atoms*’
2. “Humboldt-Kolleg on Structural Characterization and Spectroscopy of Materials Relevant to Nanotechnology, Biomedical and Geobiology (SCSMNBG-2008)”, Department of Physics, Faculty of Science, Banaras Hindu University, Varanasi, November 07-09, 2008. Title: ‘*Dynamics of 2-d One Electron Quantum Dots in Oscillatory Confinement Potential: Influence of size*’
3. National Conference on New Arena in Photosciences (NCNAP-2010)”, Department of Chemistry and Indian Photobiology Society, Jadavpur University, August 28, 2010. Title: “*Excitations in Repulsive Impurity Doped Quantum Dot Subject to Oscillatory Confinement Potential: Role of Dopant Strength and Dopant Location*”.
4. “National Seminar on Recent Advances in Chemistry (NSRAC-2012)”, under the Centre for Advanced Studies Programme, UGC, organized by the Department of Chemistry, Jadavpur University, February 10-11, 2012. Title: “*Excitation in Doped Quantum Dots Insisted by Propagating Impurity*”.
5. International Symposium on “Molecular Organization and Complexity: A Chemical Perspective”, organized by Department of Chemistry, University of Calcutta, February 06-08, 2013. Title: “*Excitation in Impurity Doped Quantum Dots Insisted by Discontinuous Field*”.
6. “National Conference on Photosciences: Contemporary Challenges and Future Perspectives”, organized by Indian Photobiology Society and Department of Chemistry, Jadavpur University, December 12-14, 2013. Title: “*Excitation Kinetics of Impurity Doped Quantum Dots Driven by Discontinuous Field*”.
7. National Seminar on Multifunctional Polymer Materials (POLY-2014), organized by Department of Chemistry, Visva-Bharati, February 14-15, 2015. Poster presentation entitled: “*Influence of Gaussian White Noise on First Nonlinear Polarizability of Doped Quantum Dots*”.
8. Discussion Meeting on Perspective in Teaching and Research in Physical Chemistry-2015, organized by Indian Association for the Cultivation of Science, August 21-22, 2015. Poster presentation entitled: “*Tuning Oscillator Strength of Impurity Doped Quantum Dots in Presence of Noise*”.
9. Condensed Matter Days 2015, organized by Department of Physics, Visva-Bharati, August 27-29, 2015. Poster presentation entitled: “*Oscillator Strength of Doped Quantum Dots Driven by Gaussian White Noise*”.
10. National Symposium on Recent Advances in Chemistry Research, organized by Department of Chemistry, Visva-Bharati, March 04, 2016. Poster presentation entitled: “*Absorption Coefficient of Doped Quantum Dots Driven by Gaussian White Noise*”

11. National Seminar on Chemistry of Functional Materials of Current Interest, organized by the Department of Chemistry, Jadavpur University, March 16, 2016. Poster presentation entitled: *“Manufacturing Dipole-allowed Transitions of Doped Quantum Dots by Gaussian White Noise”*
12. National Seminar on Recent Advances in Chemical Science and Application, organized by the Department of Chemistry, Vidyasagar College for Women, January 06-07, 2017. Poster presentation entitled: *“Combined role of hydrostatic pressure and temperature on binding energy of doped quantum dots in presence of noise”*.
13. National Conference on Chemistry: Today and Tomorrow, organized by the Department of Chemistry, University of Kalyani, July 26-27, 2018. Poster presentation entitled *“Exploring the correction factor relevant to Kerr nonlinearity in impurity doped quantum dots for a passage from non-absorbing to absorbing media in presence of Gaussian white noise”*.
14. Bose-Tagore National Advanced Workshop on Recent Advances in Condensed Matter Physics: Theory and Experiment (NAWCMP-2018), organized by the Department of Physics, Visva-Bharati, Santiniketan in association with S. N. Bose National Center for Basic Sciences, Salt Lake, Kolkata, August 03-04, 2018. Poster presentation entitled *“Exploring DC-Kerr Effect of Impurity Doped Quantum Dots Under The Aegis of Noise”*.

Participations:

1. *“National Conference on Self Aggregating Systems – Recent Advances (NCSASRA-2002)”*, Department of Chemistry, Jadavpur University, March 16, 2002.
2. *“International Symposium on Spectroscopy, Structure and Dynamics (ISSSD-2002)”*, Indian Association for the Cultivation of Science, Kolkata-32, December 12-13, 2002.
3. *“Trends in Theoretical Chemistry-2002 (TTC-2002)”*, Indian Association for the Cultivation of Science, Kolkata-32, January 17-19, 2003.
4. *“7th Chemical Research Society of India, National Symposium in Chemistry (NSC-2005)”*, Indian Association for the Cultivation of Science, Kolkata-32, February 04-06, 2005.
5. *“National Symposium on Quantum Chemistry, Soft Computation and Optimization (NSQCSCO-2008)”*, Indian Association for the Cultivation of Science, Kolkata, April 04-05, 2008.
6. *“Recent Trends in Atomic and Molecular Physics Research (RTAMPR-2010)”*, Department of Physics, Ramakrishna Mission Vivekananda University, Belur, February 13, 2010.
7. *“National Seminar on Science and Nature: Tagore’s Vision and its Relevance”*, Sikshabhavana, Visva-Bharati, March 12-13, 2011.
8. *“UGC Sponsored One-Day Seminar on International Year of Chemistry: Impact of Chemistry on Our Lives”*, Department of Chemistry, Visva-Bharati, March 25, 2011.
9. *“Seminar on Understanding Physical Chemistry: Role of Teachers and Students”* Physical Chemistry Section, Department of Chemistry, Jadavpur University, July 28, 2012.

10. Science Academies' Education Programmes, Lecture Workshop on "*Recent Developments in Chemistry*", Department of Chemistry, Visva-Bharati, Santiniketan, November 29 – December 01, 2012.
11. "*Physical Chemistry Research: Teaching and Industrial Perspectives (PCRTIP-2013)*", Department of Chemistry, Jadavpur University, September 28, 2013.
12. Science Academies' Education Programmes, Lecture Workshop on "*Recent Developments in Chemistry through Teaching and Research*", Department of Chemistry, Visva-Bharati, Santiniketan, March 13 – March 14, 2015.
13. World Environment Day Celebration, Visva-Bharati, Santiniketan, June 05, 2015.
14. Science Academies' Education Program: Short Duration Lecture Workshop on "*Recent Trends in Interdisciplinary Sciences*", Integrated Science Education and Research Centre (ISERC), Visva-Bharati, Santiniketan, February 12 – 14, 2018.
15. National Symposium on "*Recent Advances in Chemistry Research*", Department of Chemistry, Visva-Bharati, March 11, 2018.

Journal Review:

Sl. No.	Journal Name	ISSN	Publisher
1.	<i>Advances in Condensed Matter Physics</i>	1687-8108 (Print) & 1687-8124 (Online)	Hindawi
2.	<i>Canadian Journal of Physics</i>	1208-6045 (print) & 0008-4204 (web)	NRC Research Press (Canada)
3.	<i>Chemical Physics</i>	0301-0104	Elsevier
4.	<i>Chemical Physics Letters</i>	0009-2614	Elsevier
5.	<i>Chinese Journal of Physics</i>	0577-9073	Elsevier
6.	<i>Computational Condensed Matter</i>	2352-2143	Elsevier
7.	<i>Current Applied Physics</i>	1567-1739	Elsevier
8.	<i>European Physical Journal B</i>	1434-6021 (print) & 1434-6036 (online)	Springer
9.	<i>European Physical Journal D</i>	1434-6060 (Print) & 1434-6079 (Online)	Springer
10.	<i>European Physical Journal Plus</i>	2190-5444	Springer
11.	<i>Indian Journal of Physics</i>	0973-1458 (print) & 0974-9845 (online)	Springer
12.	<i>Indian Journal of Pure & Applied Physics</i>	0019-5596 (print) & 0975-1041 (online)	CSIR-NISCAIR
13.	<i>International Journal of Modern Physics B</i>	0217-9792 (print) & 1793-6578 (online)	World Scientific
14.	<i>Journal of Computational Electronics</i>	1569-8025 (print) &	Springer

		1572-8137 (online)	
15.	<i>Journal of Interfaces, Thin Films & Low-dimensional systems</i>	2645-4173 (Print) 2645-4181 (Online)	Alzahra University, Iran.
16.	<i>Journal of Low Temperature Physics</i>	0022-2291 (Print) 1573-7357 (Online)	Springer
17.	<i>Journal of Magnetism and Magnetic Materials</i>	0304-8853	Elsevier
18.	<i>Journal of Molecular Structure</i>	0022-2860	Elsevier
19.	<i>Journal of Physics & Chemistry of Solids</i>	0022-3697	Elsevier
20.	<i>Laser Physics</i>	1054-660X (Print) 1555-6611 (Online)	Institute of Physics (IOP), UK
21.	<i>Optical Materials</i>	0925-3467	Elsevier
22.	<i>Optical and Quantum Electronics</i>	0306-8919 (Print) 1572-817X (Online)	Springer
23.	<i>Optics Communications</i>	0030-4018	Elsevier
24.	<i>Optics & Laser Technology</i>	0030-3992	Elsevier
25.	<i>Optik</i>	0030-4026	Elsevier
26.	<i>Optoelectronics and Advanced Materials – Rapid Communication</i>	1842-6573	INOE Publishing House, Romania.
27.	<i>Philosophical Magazine</i>	1478-6435 (Print) 1478-6443 (Online)	Taylor & Francis
28.	<i>Physica B</i>	0921-4526	Elsevier
29.	<i>Physica E</i>	1386-9477	Elsevier
30.	<i>Physica Scripta</i>	0031-8949 (Print) 1402-4896 (Online)	Institute of Physics (IOP), UK
31.	<i>Physica Status Solidi B</i>	1521-3951	Wiley-VCH
32.	<i>Physical Science International Journal</i>	2348-0130	SCIENCEDOMAIN International
33.	<i>RSC Advances</i>	2046-2069	Royal Society of Chemistry (UK)
34.	<i>Solid State Sciences</i>	1293-2558	Elsevier
35.	<i>Superlattices and Microstructures</i>	0749-6036	Elsevier