Curriculum Vitae

Name and Address	**Dr. MANOJ PARAMESWARAN** Head, Department of Chemistry St. Michael's College (Affiliated to University of Kerala) Cherthala, Kerala, India Tel: +91 9400562122 (Mobile), Email: pmanoj2k@gmail.com
Academic Qualifications	• Doctor of Philosophy (Ph. D): Mahatma Gandhi University, India (2007). • Master of Philosophy (M. Phil): Mahatma Gandhi University, India (2001). • Master of Science (M.Sc.): Mahatma Gandhi University, India (1998), University First Rank.
Education and Professional Experience	• Head, Department of Chemistry, St. Michael's College, Cherthala, Kerala, India (May 2014- Present) • Assistant Professor, Department of Chemistry, St. Michael's College, Cherthala, Kerala, India (October 2010 – Present). • Post-Doctoral Fellow, National University of Singapore (NUS), Singapore. • Post-Doctoral Fellow, Collaborative research with Institute of Materials Research and Engineering (IMRE), Singapore. • Visiting Fellow, Tata Institute of Fundamental Research (TIFR), Mumbai, India. • Visiting Research Scholar, Pohang University of Science and Technology (POSTECH), South Korea. • Visiting Research Scholar, Bhabha Atomic Research Centre (BARC), Mumbai, India. • Visiting Research Scholar, National Centre for Ultra-Fast Processes (NCUFP), Chennai, India.
Fellowships/ Awards & Recognitions	• Guest Editor**,** Materials Today: Proceedings, 2020 (Volume: 33, Issue P2). • Best Teacher, St. Michael's College, Cherthala, 2014 • Post Doctoral Fellowship from National University of Singapore, Singapore. • Visiting Fellowship from Tata Institute of Fundamental Research, India. • Visiting Research Fellowship from Pohang University of Science and Technology, South Korea • Senior Research Fellowship from Mahatma Gandhi University, Kerala, India. • Junior Research Fellowship from Mahatma Gandhi University, Kerala, India. • University first rank in Master of Science, Mahatma Gandhi University, Kerala, India.

Membership in Professional Bodies	• Life Member of the Indian Society for Radiation and Photochemical Sciences
Teaching Experience	• Thirteen years of teaching experience in M.Sc. and B.Sc. Chemistry courses.
Faculty Development Programmes Attended (OC, RC, ST, etc)	• Moodle Learning Management System, St. Michael's College, Cherthala & Spoken Tutorial Project, IIT Bombay. 23.11.2020 to 27.11.2020 • A Short-Term Course in E-Teaching with Learning Management Systems by The All Kerala Private College Teachers' Association, June 2020. • Online Education in Higher Education Institutions by the Faculty Development Centre of KSHEC, Thiruvananthapuram, 13.07.2020 to 17.07.2020. • MOOCs, Online Courses & Open Educational Resources by UGC HRDC Kannur University, 20.11.2020 to 26.11.2020. • Online Refresher Course in Chemistry for Higher Education. SWAYAM ARPIT, AICTE, MHRD, Government of India., 16.02.2020 (Duration 16 Weeks 01.09.2019 - 31.12.2019) • Refresher course in Material Sciences, UGC-HRDC University of Calicut, 03.12.2019 to 16.12.2019. • Refresher Course in Material Sciences, UGC ASC, University of Kerala, Thiruvananthapuram, 29.11.2016 to 19.12.2016 • Orientation Course, UGC ASC, University of Kerala, Thiruvananthapuram, 28.05.2015 to 17.06.2015
Responsibilities at College	**2022-23** • Member - Governing Body • Member - College Council • Member - Academic Monitoring Committee • Coordinator – IQAC • Member – Grievance Redressal Cell • Member - Library Committee • Director - Research Promotion Council • Programme Officer - Youth Red-Cross • Member - RUSA-Board of Governance • Member - RUSA Project Monitoring Unit (PMU) • Member - Procurement and Purchase Committee • Coordinator - RUSA RRNG • Coordinator - Calendar Committee **2021-22** • Member - College Council • Member - Academic Monitoring Committee

	• Member – IQAC • Member – Grievance Redressal Cell • Member - Library Committee • Member - Research Promotion Council • Programme Officer - Youth Red-Cross • Member - Procurement and Purchase Committee • Coordinator - RUSA RRNG **2020-21** • Class Tutor, II M.Sc. • Member - College Council • Member - Academic Monitoring Committee • Member – IQAC • Staff Advisor • Member – Grievance Redressal Cell • Member - Library Committee • Member - Research Promotion Council • Programme Officer - Youth Red-Cross • Member - Procurement and Purchase Committee • Coordinator - RUSA RRNG **2019-20** • Member - College Council • Member - Academic Monitoring Committee • Member - IQAC • Staff Advisor • Member - Library Committee • Member - Research Promotion Council • Programme Officer - Youth Red-Cross • Member - Procurement and Purchase Committee • Coordinator - RUSA RRNG **2018-19** • Member-College Council • Member: Academic Monitoring Committee • Member: IQAC • Member – Grievance Redressal Cell • Member – Library Committee • Member – Planning Board

	• Member - Research Promotion Council • Programme Officer - Youth Red-Cross **2017-18** • Member – College Council • Member – Academic Monitoring Committee • Member – Grievance Redressal Cell • Member – Library Committee • Director – Research Promotion Council • Programme Officer – Youth Red-Cross • Member – Planning Board **2016-17** • Member – College Council • Member – Academic Monitoring Committee • Member – Library Committee • Director – Research Promotion Council • Programme Officer – Youth Red-Cross **2015-16** • Member – Academic Monitoring Committee • Member – College Council • Member- IQAC • Member – Remedial Coaching • Member – Library Committee • Director – Research Promotion Council • Programme Officer – Youth Red-Cross **2014-15** • Member – The College Development Council • Member – Academic Monitoring Committee • Member – IQAC • Secretary – Science Club • Director – Research Promotion Council • Member – Value Education Forum • Member – Planning Board • Programme Officer – Youth Red-Cross **2013-14** • Member – The College Development Council • Member – Event Management Team

	• Secretary – Science Club • Member – Research Promotion Council • Member – Value Education Forum **2012-13** • Member – Event Management Team • Secretary – Science Club • Member - Research Promotion Council • Member – The College Development Council **2011-12** • Member – Research Promotion Council • Secretary – The Energy and Environment Conservation Club (EEC) • Member – The College Development Council
Responsibilities in University Level	• Chairman, Board of Examiners, University of Kerala, S1 M.Sc. Chemistry (New Gen) 2023. • Member, Board of Studies of Polymer Chemistry, University of Kerala, 2020. • Question Paper Setter for the U. G. Examination, Mahatma Gandhi University, January 2018. • Chairman, Board of Examiners, University of Kerala, S4 and S2 M.Sc. Polymer Chemistry July – August 2017. • University External Examiner, Fourth Semester M. Sc. Applied Chemistry, Mahatma Gandhi University, May-June 2017. • External Evaluator for the U. G. Examination, C. M. S. College, Kottayam, February 2017. • Question Paper Setter, Kerala Public Service Commission, September 2016. • Question Paper Setter, Fatima Mata National College, Kollam, August 2016. • Chairman, Board of Examiners, University of Kerala, S3 and S1 M.Sc. Polymer Chemistry February 2016. • University External Examiner, Fourth Semester M. Sc. Applied Chemistry, Mahatma Gandhi University, June/July 2015. • External Project Evaluator, Fourth Semester M. Sc. Degree Examination, Indian Institute of Information Technology and Management (IIIT-M), August 2015. • Question Paper Setter, M. Sc. Examination, Cochin University of Science and Technology, February 2015. • University External Examiner, Fourth Semester M. Sc. Applied Chemistry, Mahatma Gandhi University, June/July 2014. • External Examiner M. Sc., M. Phil courses, Cochin University of Science and Technology, January 2014.

	• Question Paper Setter, M. Sc. Examination, Cochin University of Science and Technology, February 2013.
Extension/Outreach Programmes	• Invited Speaker, Online Classes for Science Students hosted by Additional Skill Acquisition Programme, Higher Education Department, Govt of Kerala, 2020. • Technical Committee Expert at Govt. College, Kottayam for procuring research instruments, 2020. • Peer Team Member during the mock visit at Aquinas College, Edacochin, Cochin, 2019. • Coordinator, Sasthrajalakam, State Institute of Educational Technology (SIET), Govt. of Kerala, 2018. • Subject Expert, Cluster Meeting for Higher Secondary School Teachers, Kottayam District February 2012. • Quiz Master, Higher Secondary School Students, Kottayam District. • Subject Expert, Cluster Meeting for Higher Secondary School Teachers, Kottayam District February 2012. • Judge for Science Seminar, Revenue District Science Club Association, Alappuzha, January 2012. • Judge for Science Exhibition, Revenue District Science Club Association, Alappuzha, November 2011.
Research Interests	• **Organic Photovoltaics (OPV), Time of Flight Photoconductivity, Dye Sensitized Solar Cells (DSSC)** o Carrier drift mobility measurement of new conjugated oligomers and polymers o Fabrication of OPV with low bandgap polymeric materials o Transient photocurrent and photovoltage measurements o Nanosecond flash photolysis • **Photophysical Properties of Conjugated Polymers and Metal Nanoparticles** o Ultrafast dynamics of new conjugated polymers o Interactions of surfactant with various conjugated systems o Optical characterization of metal nanoparticles • **Charge Transfer Dynamics in DNA** o Free radical reactions of 2-aminopurine and the probable charge transfer process to various natural nucleobases o Ultrafast charge transfer dynamics in modified double helical DNA o Oxidative DNA damage o Free radical reactions of DNA bases and their product analysis with HPLC, GC-MS and LC-MS • **Radiation and Photochemical Studies of Substituted Purines and Pyrimidines and Degradation of Triazines using Advanced Oxidation Processes** o Laser flash photolysis of triazine derivatives

	○ Steady state radiolysis of purines and pyrimidines ○ Degradation of triazines and the end products analysis with UV-VIS, HPLC, GC-MS and LC-MS • ***J*-Aggregates Exciton Dynamics** ○ Excited state dynamics of molecular assemblies ○ Structural characterization using various spectroscopic techniques
Major/Minor Research Projects and Conferences	• Major research project entitled "*Investigations of the Photophysical Properties of Semiconducting Organic Materials for Electronic Applications*" funded by the University Grants Commission (UGC), India. 2012-15 (Total Grant: Rs. 11.60 Lakhs). • Major research project entitled "*Optical Characterization and Charge Transport Properties of Conjugated Oligomers and Polymers for Organic Photovoltaics*" funded by the Department of Science and Technology (DST), SERB-DST, India 2013-16 (Total Grant: Rs.31.85 Lakhs). • International Conference on Membranes (ICM 2017), (Total Grant: Rs. 1.00 Lakh) • International Conference on Photochemistry and Sustainable Energy (ICPSE 2019), (Total Grant: Rs. 0.75 Lakhs)
Research Guidance	• Research Guide, University of Kerala (2016 onwards) • Three students are registered for PhD programme in University of Kerala
Techniques Mastered	Hands on experience with Time-of-Flight Photoconductivity, Fabrication of Organic Photovoltaic Devices, Transient Photocurrent and Photovoltage Techniques, Time-Correlated Single Photon Counting (TCSPC), Femtosecond Fluorescence Up conversion, Pump-Probe Transient Absorption, GC-MS, HPLC, ESR, UV-Vis spectrophotometer, Spectrofluorimeter, FT-IR and Pulse Radiolysis (LINAC).
Publication in Reviewed Journals	1. Ranjini Radhakrishnan, Manoj Parameswaran, K. Satheesh Kumar, "The evolution and recent research trends of Surface Enhanced Raman Scattering sensors using plasmonics: Citation network analysis", ***Mater.Chem.Phys***., 296, **2023**, 127255. 2. Seena Elizabeth George, Vibin Ipe Thomas, Beena James, Pearl Augustine, C. Rajalakshmi, P. Manoj, Modelling and Synthesis of Solution Processable Dibenzothiophene Derivative for Organic Electronics, ***Mater. Today: Proc.*** *33*, **2020** 1288. 3. Princy Philip, Tomlal Jose, K.C. Philip, P. Manoj, T. Sajini, Studies on the Hypsochromic Shifted Optical Properties of Gold Nanoparticles Embedded Electrospun Poly(methyl methacrylate) (PMMA) Nanofibers, ***Mater. Today: Proc.*** *33*, **2020** 2174. 4. Princy Philip, Tomlal Jose, Manoj Parameswaran and Sajini Thankaraj, Structurally Modified Poly(methyl methacrylate) Electrospun Nanofibers as Better Host Matrix for Noble Metal Nanoparticles, ***J. Appl. Polym. Sci.***, **2020**, 1. 5. M. Gayathri Mohan, Aravind Krishnan, Beena James, Pearl Augustine, P. Manoj, Theoretical Studies of Squaraine and Functionalized 2,1,3-

	benzothiadiazole Molecules for Solar Cell Applications, ***Mater. Today: Proc.*** *33*, **2020** 1268. 6. S. Suriya Prabhaa, N. Bindu, P. Manoj, K. Satheesh Kumar, Citation Network Analysis of Plastic Electronics: Tracing the Evolution and Emerging Research Fronts, ***Mater. Today: Proc.*** *33*, **2020** 1345. 7. Sabah Sajeeb, P. Rajagopal, P. Manoj, Photophysical Properties of Perylenediimide Derivatives, ***J. Acad. Chem. Teach.***, *3(1)*, **2017**, 8. Gayathri Mohan. M, Tintu Raveendran, T. K. Manojkumar, P. Rajagopal, P. Manoj, Theoretical Study of Pyrene Based Oligomers for Organic Solar Cells, ***IEEE,*** *978-1- 4673-9939-5/16*, **2016.** 9. Manjumol Mathew, S. Sreedhanya, P. Manoj, C. T. Aravindakumar, Usha K. Aravind, Exploring the Interaction of Bisphenol-S with Serum Albumins: A Better or Worse Alternative for Bisphenol A? ***J. Phys. Chem. B,*** *118(14),* **2014**, 3832. 10. Yeru Liu, James R. Jennings, Manoj Parameswaran, Qing Wang, An Organic Redox Mediator for DyeSensitized Solar Cells with Near Unity Quantum Efficiency ***Energy Environ. Sci.,****4*, **2011***,* 564. (*Advance Article*). 11. Md. Anower Hossain, Guangwu Yang, Manoj Parameswaran, James R. Jennings, Qing Wang, Mesoporous SnO2 Spheres Synthesized by Electrochemical Anodization and Their Application in CdSeSensitized Solar Cells. ***J. Phys. Chem.C*** *114* (49), **2010**, 21878. 12. Ganapathy Balaji, Manoj Parameswaran, Chellappan Vijila, Tan Mein Jin, Zhu Furong, Suresh Valiyaveetil, Synthesis and Hole-Transporting Properties of Highly FluorescentN-Aryl Dithieno[3,2-b:2',3'-d]pyrrole-Based Oligomers, ***J. Phys. Chem. C****, 114,* **2010**, 4628. 13. Manoj Parameswaran, Ganapathy Balaji, Tan Mein Jin, Chellappan Vijila, Sajini Vadukumpully, Zhu Furong, Suresh Valiyaveettil, Charge Transport Studies in Fluorene - Dithieno[3,2-*b*:2′,3′-*d*]pyrrole Oligomer using Time-of-Flight Photoconductivity Method, ***Org. Electron.*** *10,* **2009**, 1534. 14. Ganapathy Balaji, Wong Low Shim, Manoj Parameswaran, Suresh Valiyaveettil, Thiadiazole Fused Indolo[2,3-*a*]carbazole Based Oligomers and Polymer, ***Org. Lett.*** *11*, **2009**, 4450. 15. Hairong Li, Manoj Parameswaran, Muhammad Hanafiah Nurmawati, Qing-Hua Xu, Suresh Valiyaveettil, Synthesis and Structure-Property Investigation of Novel Poly(p-phenylene)s with Conjugated Side Chains, ***Macromolecules*** *41*, **2008**, 8473. 16. P. Manoj, Chang-Ki Min, C. T. Aravindakumar, Taiha Joo, Ultrafast Charge Transfer Dynamics in 2-Aminopurine Modified Double Helical DNA, ***Chem. Phys.*** *352,* **2008**, 333. 17. Jun Hong Yao, Khine Yi Mya, Xu Li, Manoj Parameswaran, Qing-Hua Xu, Kian Ping Loh, Zhi- Kuan Chen, Light Scattering and Luminescence Studies on Self-Aggregation Behavior of Water-soluble Copolymer Micelles, ***J. Phys. Chem. B.*** *112*, **2008**, 749. 18. P. Manoj, H. Mohan, V. M. Manoj, J. P. Mittal, C. T. Aravindakumar, Charge Transfer from 2-Aminopurine Radical Cation and Radical Anion

	to Nucleobases: A Pulse Radiolysis Study, ***Chem. Phys.*** *331*, **2007**, 351. 19. P. Manoj, V. M. Manoj, K. P. Prasanthkumar, Usha K. Aravind, T. K. Manojkumar, C. T. Aravindakumar, Oxidation of Substituted Triazines by Sulfate Radical Anion (SO ′′) in Aqueous Medium: A Laser flash Photolysis and Steady State Radiolysis Study, ***J. Phys. Org. Chem.*** *20*, **2007**, 122. 20. P. Manoj, Chang-Ki Min, C. T. Aravindakumar, Taiha Joo, Ultrafast charge transfer dynamics of a modified double helical DNA, ***Springer Series in Chemical Physics****, 88,* **2007**, 540. 21. P. Manoj, H. Mohan, V. M. Manoj, J. P. Mittal, C. T. Aravindakumar, Reactions of ′OH and O′′ with 2-Aminopurine in Aqueous Medium, ***Res. Chem. Intermed.*** *32,* **2006**, 817. 22. G. Pramod, Harimohan, P. Manoj, T. K. Manojkumar, V. M. Manoj, J. P. Mittal, C. T. Aravindakumar, Redox Chemistry of 8-Azaadenine, ***J. Phys. Org. Chem.*** *19*, **2006**, 415. 23. Rani Varghese, Hari Mohan, P. Manoj, V. M. Manoj, Usha K. Aravind, K. Vandana, C. T. Aravindakumar, On the Reactions of Hydrated Electrons with Triazine Derivatives in Aqueous Medium, ***J. Food. Agric. Chem.*** *54*, **2006**, 8171. 24. G. Pramod, K. P. Prasanthkumar, Hari Mohan, V. M. Manoj, P. Manoj, C. H. Suresh, C. T. Aravindakumar, Reaction of Hydroxyl Radicals with Azacytosines: A Pulse Radiolysis and Theoretical Study, ***J. Phys. Chem. A.*** *110*, **2006,** 11517. 25. G. Pramod, K. P. Prasanthkumar, Hari Mohan, V. M. Manoj, P. Manoj, C. H. Suresh, C. T. Aravindakumar, Reaction of Hydroxyl Radicals with Azacytosines: A Pulse Radiolysis and Theoretical Study, ***J. Phys. Chem. A. 110*, 2006, 11517.** 26. L. Luke, H. Mohan, V. M. Manoj, P. Manoj, J. P. Mittal, C. T. Aravindakumar, Reactions of Sulphate Radical Anion (SO4●–) with Hydroxy and Methyl substituted Pyrimidines: A Pulse Radiolysis Study, ***Res. Chem. Intermed.*** *29*, **2003**, 379. 4 27. T. L. Luke, T. A. Jacob, H. Mohan, H. Destaillats, V. M. Manoj, P. Manoj, J. P. Mittal, M. R. Hoffmann, C. T. Aravindakumar, Properties of the OH-Adducts of Hydroxy, Methyl, Methoxy and Amino Substituted Pyrimidines: Their Dehydration Reactions and End- Product Analysis, ***J. Phys. Chem. A.*** *106*, **2002**, 2497. 28. P. Manoj, R. Varghese, V. M. Manoj, C. T. Aravindakumar, Reactions of Sulphate Radical Anion (SO4●–) with Cyanuric Acid: A Potential Reaction for its Degradation? ***Chem. Lett.*** *1,* **2002**, 74. 29. T. L. Luke, H. Mohan, V. M. Manoj, P. Manoj, J. P. Mittal, C. T. Aravindakumar, Reactions of Oxide Radical Ion (O●–) with Substituted Pyrimidines, ***Res. Chem. Intermed***. *28*, **2002**, 30
Seminar/Symposia/Talk	• Training programme on "Common Spectroscopic Techniques and Data Analysis" organised by the Department of Chemistry, Christian College, Chengannur. (An initiative by Department of Science and Technology (DST), Government of India under the synergistic training programme

	utilizing the scientific and technological infrastructure (STUTI), 2022. ***(Invited Speaker)*.** • Inauguration of Chemistry Association at Department of Chemistry, Bharata Mata College, Thrikkakara, Cochin, 2022 ***(Chief Guest)***. • Inauguration of Chemistry Association at Department of Chemistry, Government College, Kottayam, 2022 ***(Keynote Speaker)*.** • International Conference on Photochemistry and Sustainable Energy (ICPSE 2019), October 2019 (***Convenor of the Conference).*** • National Science Day Celebrations at Christian College, Chegannur Alappuzha, Kerala February 2019, ***(Invited Speaker).*** • National Science Day Celebrations at Sanathana Dharma College, Alappuzha, Kerala, February 2019, ***(Invited Speaker).*** • International Conference on Sustainable Innovations in Green Chemistry and New Technological Developments (ICSIG-2018), December, 2018 ***(Invited Speaker).*** • National Science Day Celebrations at Kerala University of Teacher Education, Aryad, Alappuzha, February 2018, ***(Invited Speaker).*** • National Seminar on Advanced Materials for Energy Applications, 2019 ***(Invited Speaker).*** • National Workshop on Thin Film Technology NWTFT, KKTM Govt. College, Pullut, Kerala November 2017 ***(Invited Speaker).*** • National Seminar on Current Perspectives in Chemistry Govt. College, Kattapana, Kerala, November 2017***(Invited Speaker).*** • International Conference on Membranes (ICM 2017), Alappuzha, Kerala, October 2017 ***(Coordinator of the Conference).*** • Chemistry Association Sanathana Dharma College, Alappuzha, Kerala, March 2017 ***(Invited Speaker).*** • National Seminar on Recent Advances in Materials Science Govt. College, Kottayam, Kerala, January 2017 ***(Invited Speaker).*** • Cluster Meeting for Higher Secondary Chemistry Teachers, Higher Secondary Chemistry Teachers Association, Kottayam, 2017 ***(Invited Speaker).*** • St. Joseph's College, Alappuzha, St. Joseph's College, Alappuzha, 2017 ***(Invited Speaker).*** • St. Albert's College, Ernakulam, B.Voc, St. Albert's College, Ernakulam, 2016, ***(Invited Speaker).*** • International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT 2016), DMI College of engineering, Chennai, Tamilnadu, March 2016. • Department of Future Studies, University of Kerala, Thiruvanathapuram, 2015 ***(Invited Talk).*** • National Seminar on Nanochemistry-Techniques, Advancement and Applications, Sanathana Dharma College, Alappuzha, Kerala, October 2015.

	• Workshop on Virtual Labs in Chemical Sciences, (Supported by MHRD), Amrita Vishwa Vidyapeetham, Kollam, Kerala, September 2015. • National Seminar on Materials Science with Special Emphasis on Crystallography Govt. College, Kottayam, Kerala, September, 2015. • National Workshop on Towards Formulating Best Classroom Practices in Teaching, Learning and Evaluation, (Supported by UGC-NAAC & KSHEC), Mar Ivanios College, Thiruvananthapuram, Kerala, September 2015. • National Seminar on Recent Advances in Spectroscopy: A Chemical and Biological Perspective-2. Newman College, Thodupuzha, Kerala, August 2015 ***(Invited Speaker).*** • Nodal Centre Conference on Blending Virtual Labs into Regular Curriculum of Nodal Centre Colleges, (Supported by MHRD) Amrita Vishwa Vidyapeetham, Kollam Kerala, February 2015. • National Conference on Advances in Crystal Growth and Nanotechnology, (Supported by UGC), C. M. S. College, Kottayam, Kerala, January 2015. • NSS College, Kottiyam. Science Forum, NSS College, Kottiyam, 2014 ***(Invited Speaker).*** • C.M.S. College, Kottayam. 2013 ***(Invited Speaker).*** • National Seminar on Conducting Materials Probing Methods: Novel Properties and Emerging Applications. M. E. S. College, Nedumkandam Kerala, December 2013 ***(Invited Speaker).*** • International Conference on Membranes (ICM 2013), October 2013. • Second International Conference on Advanced Oxidation Processes (AOP 2012), Kottayam, Kerala, October 2012. • Cluster Meeting for Higher Secondary Chemistry Teachers, 2012. ***(Invited Speaker).*** • Singapore International Conference on Chemistry (SICC-6), Singapore, 2009. • International Conference on Materials for Advanced Technologies (ICMAT), Singapore, 2009. • Pune Workshop on Radiation and Photochemistry, Pune, India, 2008 ***(Invited Speaker).***
Personal Particulars	
Nationality	Indian
Date of Birth	5th March 1975
Gender	Male

Manoj Parameswaran