

# Chiew San Wong

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## Education

*Jun 1980 – Jun 1983* **University of Malaya**  
PhD, Plasma Physics  
Kuala Lumpur, Malaysia

## Research Experience

*Oct 2016 – present* **Emeritus Professor**  
University of Malaya, Department of Physics  
Kuala Lumpur, Malaysia

*Jan 1992 – Jan 2016* **Professor (Full)**  
University of Malaya, Plasma Technology Research Centre (UMPTRC)  
Kuala Lumpur, Malaysia

*Nov 1986 – Jun 1987* **Fellow of the Alexander von Humboldt Stiftung**  
Universität Stuttgart,  
Stuttgart, Germany

## Awards & Grants

*Nov 2005* Award: Malaysia Toray Science Foundation Science & Technology Award

## Skills & Activities

*Scientific Memberships*

Life Fellow of Malaysian Institute of Physics

*Research Interests*

Pulsed plasma radiation sources; Atmospheric pressure dielectric barrier discharge for industrial and medical applications; 50 Hz AC glow discharge for industrial and medical applications; Exploding wire for nano particles syntheses; Study of wave phenomena in dusty plasma

## Publication Highlights

### Books

Chiew San Wong, Rattachat Mongkolnavin: *Elements of plasma technology*. First 01 / 2016; Springer Verlag., ISBN: ISBN 978-981-10-0117-8

S Lee, S H Saw, C S Wong, R S Rawat, Widdi Usada, Sh Al-Hawat, D P Subedi, S L Yap, L S Chan, R Verma, et al: *Proceedings of the International Workshop on Plasma Computations & Applications*. 2009 edited by Saw Sor Heoh, Lee Sing, Wong Chiew San, Rajdeep Singh Rawat and Yap Seong Ling, 07 / 2008; INTI Publishing House Sdn Bhd., ISBN: 165-0284

Alain Bernard, Horacio Bruzzone, Peter Choi, Hernan Chuaqui, Vladimir Gribkov, Julio Herrera, Katsumi Hirano, Ales Krejci, Sing Lee, Chengmu Luo, Franco Mezzetti, Marek Sadowski, Helmut Schmidt, Kenneth Ware, Chiew San Wong, Vasile Zoita: *International Centre for Dense Magnetised Plasmas- A Proposal (prepared at the request of UNESCO)*. 1994 edited by Alain Bernard, 01 / 1994; International Working Group of the ICDMP.

S Lee, B C Tan, C.S. Wong: *Laser and Plasma Technology- Third Tropical College on Applied Physics*. 1990 edited by C S Wong, S Lee, B C Tan, A C Chew, K S Low, S P Moo, 05 / 1988; World Scientific., ISBN: 981-02-0168-0

Sing Lee, B C Tan, C S Wong, A C Chew, R S Sirohi, C Grey Morgan, Budi Santoso, Suwono Prawiroatmojo, Harith Ahmad, M H R Hutchinson, S Svanberg, M G Haines, Ieuan Jones, C Silawatshananai, et al: *Laser and Plasma Technology- 1984 Tropical College on Applied Physics*. 1985 edited by Sing Lee, B C Tan, C S Wong, A C Chew, 01 / 1985; World Scientific., ISBN: 9971-978-27-X

### Book Chapters

Chiew San Wong, Rattachat Mongkolnavin: *Some Examples of Small Plasma Devices*. Elements of Plasma Technology, 01 / 2016; , ISBN: 978-981-10-0115-4, DOI:10.1007/978-981-10-0117-8\_4

Chiew San Wong, Rattachat Mongkolnavin: *Plasma Diagnostic Techniques*. Elements of Plasma Technology, 01 / 2016; , ISBN: 978-981-10-0115-4, DOI:10.1007/978-981-10-0117-8\_3

Chiew San Wong, Rattachat Mongkolnavin: *Basic Concepts in Plasma Technology*. Elements of Plasma Technology, 01 / 2016; , ISBN: 978-981-10-0115-4, DOI:10.1007/978-981-10-0117-8\_1

Chiew San Wong, Rattachat Mongkolnavin: *Methods of Plasma Generation*. Elements of Plasma Technology, 01 / 2016; , ISBN: 978-981-10-0115-4, DOI:10.1007/978-981-10-0117-8\_2

TAMIL MANY K THANDAVAN, Roslan Md Nor, Siti Meriam Abd Ghani, Wong Chiew San: *Surface Functionalization of Carbon Nano- tube using Direct Current Glow Discharge: Preparation and Characterization*. Nanotechnology - Fundamentals and Applications Volume 1, 01 / 2013: chapter 97;

Yusilawati Ahmad Nor, Maizirwan Mel, Iis Sopyan, Wong C.S, Hamzah Moh Salleh, Ng Kim Hooi: *UV/Ozone Treatment System for Polystyrene Beads Modification*. Recent Development of Microcarrier for Cell Culture Engineering, Edited by Maizirwan Mel et.al, 01 / 2011: chapter 1; IIUM Press., ISBN: 978-967-418-009-6

## Journal Publications

- R Shrestha, D P Subedi, B Tyata, C S Wong: *Generation and diagnostics of atmospheric pressure dielectric barrier discharge in argon/air*. Indian Journal of Pure and Applied Physics 03 /2017; 55.
- KAUSHIK ROY, SOURAV CHOUDHURY, PRASANTA CHATTERJEE, C S WONG: *Face-to-face interaction of multisolitons in spin-1/2 quantum plasma*. Pramana 01 /2017; 88(1), DOI:10.1007 /s12043-016-1313-8
- Ram Chand, Sithi V. Muniandy, Chiow San Wong, Jasbir Singh: *Discrete element method study of shear-driven granular segregation in a slowly rotating horizontal drum*. DOI:10.1016 /j.partic.2016.05.014
- R. Shrestha, D.P. Subedi, J.P. Gurung, C.S. Wong: *Generation, characterization and application of atmospheric pressure plasma jet*. Sains Malaysiana 11 /2016; 45(11).
- Asit Saha, Kaushik Roy, Nikhil Pal, Prasanta Chatterjee, C. S. Wong: *Dynamic features of dust acoustic waves in a four component dusty plasma with non-thermal ions*.
- Paramaporn Sahapaibounkit, Isarawut Prasertsung, Rattachat Mongkolnavin, Chiow San Wong, Siriporn Damrongsakkul: *A two-step method using air plasma and carbodiimide crosslinking to enhance the biocompatibility of polycaprolactone: AIR PLASMA AND CARBODIIMIDE CROSSLINKING*. Journal of Biomedical Materials Research Part B Applied Biomaterials 05 /2016,, DOI:10.1002 /jbm.b.33708
- Siti Aiasah Hashim, Farah Nadia Dayana binti Samsudin, Wong Chiow San, Khomsaton Abu Bakar, Yap Seong Ling, Mohd. Faiz Mohd. Zin: *Non-thermal plasma for air and water remediation*. Archives of Biochemistry and Biophysics 04 /2016; 605., DOI:10.1016 /j.abb.2016.03.032
- Adam Chee, Ving Ching Chong, Chiow San Wong, Sithi Vinayakam Muniandy: *Sound signatures and production mechanisms of three species of pipefishes (Family: Syngnathidae)*. PeerJ 12 /2015; 3(1), DOI:10.7717 /peerj.1471
- Kaushik Roy, Asit Saha, Prasanta Chatterjee, C. S. Wong: *Head on collision of dust acoustic multi-solitons in a nonextensive plasma*.
- A. A. Abid, M. Z. Khan, C. S. Wong, S. L. Yap: *Dust grains potential variation in a Vasylunas Cairns-distributed plasmas with negative ions*. Physics of Plasmas 12 /2015; 22(12), DOI:10.1063 /1.4938198
- R. Shrestha, J. P. Gurung, D. P. Subedi, C. S. Wong: *Atmospheric Pressure Single Electrode Argon Plasma Jet for Biomedical Applications*.
- Asit Saha, Prasanta Chatterjee, C. S. Wong: *Dynamic Motions of Ion Acoustic Waves in Plasmas with Superthermal Electrons*. Brazilian Journal of Physics 09 /2015; 45(6), DOI:10.1007 /s13538-015-0358-3
- Pedram Azari, Ng Sook Luan, Seng Neon Gan, Rosiyah Yahya, Chiow San Wong, Kien Hui Chua, Belinda Pinguan-Murphy: *Electrospun Biopolyesters as Drug Screening Platforms for Corneal Keratocytes*. International Journal of Polymeric Materials 05 /2015; 64., DOI:10.1080 /00914037.2015.1030648
- B. Paosawatyanong, S. Thitianan, B. Bhanthumnavin, N. Promros, C. S. Wong: *Plasma Parameter Analysis During Nano-Crystalline Diamond Growth Using Automated Langmuir Probe*. Journal of Computational and Theoretical Nanoscience 05 /2015; 12(5), DOI:10.1166 /jctn.2015.3824
- Tamil Many K. Thandavan, Siti Meriam Abdul Gani, Chiow San Wong, Roslan Md Nor: *Evaluation of Williamson–Hall Strain and Stress Distribution in ZnO Nanowires Prepared Using Aliphatic Alcohol*. Journal of Nondestructive Evaluation 04 /2015; 34., DOI:10.1007 /s10921-015-0286-8
- M Z Khan, L K Lim, S L Yap, C S Wong: *Imperative function of electron beams in low-energy plasma focus device*. Pramana 04 /2015; 85(6), DOI:10.1007 /s12043-015-0951-6

- Tamil Many K Thandavan, Siti Meriam Abdul Gani, Chiow San Wong, Roslan Md Nor: *Enhanced Photoluminescence and Raman Properties of Al-Doped ZnO Nanostructures Prepared Using Thermal Chemical Vapor Deposition of Methanol Assisted with Heated Brass*. PLoS ONE 04/2015; 10(3), DOI:10.1371/journal.pone.0121756
- P Azari, R Yahya, C S Wong, S N Gan: *Improved processability of electrospun poly[(R)-3-hydroxybutyric acid] through blending with medium-chain length poly(3-hydroxyalkanoates) produced by Pseudomonas putida from oleic acid*. Materials Research Innovations 12/2014; 18(S6), DOI:10.1179/1432891714Z.0000000001024
- H Akram, P Azari, W A B Wan Abas, N M Zain, S N Gan, R Yahya, C S Wong, B Pinguan-Murphy: *An in-vitro study on the proliferative potential of rat bone marrow stem cells on electrospun fibrous polycaprolactone scaffolds containing micro-hydroxyapatite particles*. Materials Research Innovations 12/2014; 18(6S), DOI:10.1179/1432891714Z.0000000001039
- O.H. Chin, C.K. Lai, K.L Thong, C. S. Wong: *Application of an atmospheric dielectric barrier discharge for inactivation of bacteria*.
- Y. T. Lau, K. K. Jayapalan, M. E. Pam, O. H. Chin, C. S. Wong: *Dependence of dielectric barrier discharge jet length on gas flow rate and applied voltage*.
- S. Alsheikh Salo, M. Akel, C. S. Wong: *Simulation of Nitrogen and Oxygen Spectra Emitted from High Density Hot Plasma*. Journal of Fusion Energy 12/2014; 33(6), DOI:10.1007/s10894-014-9725-2
- W. H. Tay, S. S. Kausik, C. S. Wong, S. L. Yap, S. V. Muniandy: *Statistical modelling of discharge behavior of atmospheric pressure dielectric barrier discharge*. Physics of Plasmas 11/2014; 21(11), DOI:10.1063/1.4901250
- Ran Zhang, Haiyun Luo, Xiaobing Zou, Huantong Shi, Xinlei Zhu, Shen Zhao, Xinxin Wang, Seongling Yap, Chiow San Wong: *Energy Spectrum Measurement of X-Ray Radiation From a Compact X-Pinch Device*. IEEE Transactions on Plasma Science 10/2014; 42(10), DOI:10.1109/TPS.2014.2312542
- Muhammad Zubair Khan, Seong Yap, Ibrar Yaqoob, Nitturi Naresh Kumar, Lian Lim, Kuang, Wong Chiow San: *Low-Energy Plasma Focus Device as an Electron Beam Source*. The Scientific World Journal 07/2014;, DOI:10.1155/2014/240729
- Tamil Many, Chiow San Wong, Siti Meriam, Roslan Md Nor: *Photoluminescence properties of Un-Doped and Mn-Doped ZnO nanostructures*. Materials Express 06/2014; 4(6), DOI:10.1166/mex.2014.1193
- Tamil Many K. Thandavan, Siti Meriam Abdul Gani, Chiow San Wong, Roslan Md Nor: *Synthesis of ZnO Nanowires via Hotwire Thermal Evaporation of Brass (CuZn) Assisted by Vapor Phase Transport of Methanol*. Journal of Nanomaterials 06/2014;, DOI:10.1155/2014/105875
- B Bora, S S Kausik, C S Wong, O H Chin, S L Yap, L Soto: *Observation of the partial reheating of the metallic vapor during the wire explosion process for nanoparticle synthesis*. Applied Physics Letters 06/2014; 104, DOI:10.1063/1.4881838
- Haiyun Luo, Kai Liu, Junxia Ran, Yang Yue, Xinxin Wang, Seongling Yap, Chiow San Wong: *Study of Dielectric Barrier Townsend Discharge in 3-mm Air Gap at Atmospheric Pressure*. IEEE Transactions on Plasma Science 05/2014; 42(5), DOI:10.1109/TPS.2014.2312543
- L.S. Chan, D Tan, S Saboohi, S.L. Yap, C.S. Wong: *Operation of an electron beam initiated metallic plasma capillary discharge*. Vacuum 05/2014; 103, DOI:10.1016/j.vacuum.2013.12.003
- W H Tay, S S Kausik, S L Yap, C S Wong: *Role of secondary emission on discharge dynamics in an atmospheric pressure dielectric barrier discharge*. Physics of Plasmas 04/2014; 21, DOI:10.1063/1.4870337

- W H Tay, S L Yap, C S Wong: *Electrical Characteristics and Modeling of a Filamentary Dielectric Barrier Discharge in Atmospheric Air (Ciri Elektrik dan Model Suatu Nyahcas Dielektrik Berpenghadang dalam Udara Atmosfera)*. Sains Malaysiana 04/2014; 43(4).
- Kaushik Roy, Prasanta Chatterjee, S. S. Kausik, C. S. Wong: *Shock waves in a dusty plasma having q-nonextensive electron velocity distribution*. Astrophysics and Space Science 04/2014; 350(2), DOI:10.1007/s10509-014-1783-4
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- Muhammad Zubair Khan, Yap Seong Ling, Wong Chiow San: *Comparative Study of Radiation Emission Without and With Target in a 2.2 kJ Plasma Focus Device*. 02/2014; 1589(1), DOI:10.1063/1.4868787
- K. Ratnavelu, S. P. Chia, C. S. Wong, C. H. Ooi: *Preface: International Meeting on Frontiers of Physics (IMFP) 2013*. 02/2014; 1588(1), DOI:10.1063/1.4866917
- L. S. Chan, D. Tan, S. Saboohi, S. L. Yap, C. S. Wong: *Enhancement of the EUV Emission of a Metallic Capillary Discharge Operated with Argon Ambient Gas*. 02/2014; 1588(1), DOI:10.1063/1.4866938
- D. P. Subedi, R. B. Tyata, R. Shrestha, C. S. Wong: *An Experimental Study Of Atmospheric Pressure Dielectric Barrier Discharge (DBD) In Argon*. 02/2014; 1588(1), DOI:10.1063/1.4867673
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- Muhammad Zubair Khan, Yap Seong Ling, Wong Chiow San: *Study on Electron Beam in a Low Energy Plasma Focus*. 02/2014; 1588(1), DOI:10.1063/1.4866941
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- O. H. Chin, K. K. Jayapalan, C. S. Wong: *Effect of neutral gas heating in argon radio frequency inductively coupled plasma*. 01/2014; 32., DOI:10.1142/S2010194514603202
- M Z Khan, S L Yap, C S Wong: *Estimation of electron temperature and radiation emission of a low energy (2.2 kJ) plasma focus device*. 01/2014; 88(1), DOI:10.1007/s12648-013-0373-6
- Boon Tong Goha, Siew Kien Ngoi, Seong Ling Yap, Chiow San Wong, Saadah Abdul Rahmana: *Improvements in the structural and optical properties of a-Si:H by a dense plasma focus*. Materials Science in Semiconductor Processing 12/2013; 16., DOI:10.1016/j.mssp.2013.07.028
- S. S. Safaai, S. V. Muniandy, W. X. Chew, H. Asgari, S. L. Yap, Chiow San Wong: *Fractal dynamics of light scattering intensity fluctuation in disordered dusty plasmas*. Physics of Plasmas 10/2013; 18(1), DOI:10.1063/1.4825141
- I Prasertsung, S Kanokpanont, R Mongkolnavin, C.S. Wong, J Panpranot, S Damrongsakkul: *Comparison of the behavior of fibroblast and bone marrow-derived mesenchymal stem cell on nitrogen plasma-treated gelatin films*. 10/2013; 33(7), DOI:10.1016/j.msec.2013.05.057
- B Bora, H Bhuyan, M Favre, E Wyndham, H Chuaqui, C.S. Wong: *Measurements of plasma parameters in capacitively coupled radio frequency plasma from discharge characteristics: Correlation with optical emission spectroscopy*. Current Applied Physics 09/2013; 13(7), DOI:10.1016/j.cap.2013.04.024
- P Chatterjee, G Mondal, C S Wong: *Electron acoustic dressed soliton in quantum plasma*. 08/2013; 87(8), DOI:10.1007/s12648-013-0292-6
- M. Akel, S. Alsheikh Salo, C. S. Wong: *Computational Study of Emitted Spectra from the Neon Plasma Focus*. Journal of Fusion Energy 08/2013; 32., DOI:10.1007/s10894-013-9601-5

- H. Asgari, S. V. Muniandy, C. S. Wong: *Effects of dust pressure on the formation of solitons with dust charge fluctuation*. 07 / 2013;, DOI:10.1063/1.3537878
- Phakdee Amornsudthiwat, Rattachat Mongkolnavin, Sorada Kanokpanont, Joongjai Panpranot, Chiow San Wong, Siriporn Damrongsakkul: *Improvement of early cell adhesion on Thai silk fibroin surface by low energy plasma*. Colloids and surfaces B: Biointerfaces 07 / 2013; 111C., DOI:10.1016/j.colsurfb.2013.07.009
- M Akel, S. Alsheikh Salo, C S Wong: *Electron Temperature Measurement of Argon Focused Plasma Based on Non-local Thermodynamic Equilibrium Model*. Journal of Fusion Energy 06 / 2013; 32(3)., DOI:10.1007 / s10894-012-9576-7
- Deb Kumar Ghosh, Uday Narayan Ghosh, Prasanta Chatterjee, C S Wong: *Effect of superthermal electrons on dust-acoustic Gardner solitons in nonplanar geometry*. Pramana 04 / 2013; 80(4)., DOI:10.1007 / s12043-012-0499-7
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- Boon Tong Goh, Siew Kien Ngoi, Seong Ling Yap, Chiow San Wong, Chang Fu Dee, Saadah Abdul Rahman: *Structural and optical properties of the nc-Si:H thin films irradiated by high energetic ion beams*. Journal of Non-Crystalline Solids 03 / 2013; 363., DOI:10.1016 / j.jnoncrysol.2012.12.005
- Muhammad Zubair Khan, Yap Seong Ling, Wong chiow San: *The impact of plasma interference profile (PIP) on argon discharge in plasma focus device*. International journal of physical sciences 02 / 2013; 8(8)., DOI:10.5897 / IJPS12.552
- H Asgari, S V Muniandy, C S Wong: *Dust-acoustic solitary waves in dusty plasmas with non-thermal ions*. Physics of Plasmas 02 / 2013; 20., DOI:10.1063 / 1.4793743
- Malay Kumar Ghorui, Prasanta Chatterjee, C S Wong: *Head on collision of dust ion acoustic solitary waves in magnetized quantum dusty plasmas*. Astrophysics and Space Science 02 / 2013; 343(2)., DOI:10.1007 / s10509-012-1276-2
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- C.S. Wong, B. Bora, S.L. Yap, Y.S. Lee, H. Bhuyan, M. Favre: *Effect of ambient gas species on the formation of Cu nanoparticles in wire explosion process*. Current Applied Physics 09/2012; 12(5)., DOI:10.1016/j.cap.2012.03.024
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- P Chatterjee, B Das, C S Wong: *Dust acoustic solitary waves in a dusty plasma with variable dust charge and an arbitrary streaming ion beam*. Indian Journal of Physics 06/2012; 86(6)., DOI:10.1007/s12648-012-0074-6
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