

## The Resume

**Dr. Shui-yin Lo,**

Tel 626-229-9818; 626-616-9586 (M);

e-mail: [ideaclinic@yahoo.com](mailto:ideaclinic@yahoo.com)

### EDUCATION

**Ph.D., Theoretical Physics, University of Chicago, Chicago, Illinois, USA, 1966**

B.S., **Highest Distinction** in the Department of Physics, University of Illinois, Urbana, Illinois, USA, 1962

### PROFESSIONAL career

Research Institute of Integrative Health, Arcadia, CA91007, CEO 2015-to present  
**Professor of Research in Chinese Medicine, American University of Complementary Medicine, Los Angeles, 2003-present**

Member of Senior Advisory Board, American Journal of Chinese Medicine, 2015-now  
Academy Professor of Academy of Comprehensive and Integrative medicine (ACIM), Panama;

Director, Quantum Health Research Institute, 2005- present

Founder, Chair of the Board and President of D & Y Laboratories, USA 2009- 2014  
Executive Vice President, Chief Scientist, American Technologies Group, Monrovia, CA USA, 1992 to May 2000

**Visiting Faculty member, California Institute of Technology, Pasadena, CA USA, 1994 to 1998**

CEO, Institute for Boson Studies, Pasadena, CA USA, 1987-1992

Tenured Senior Lecturer (1977-1986), Tenured Lecturer (1975-1977), Fixed Term Lecturer (1972-1975), Department of Physics, University of Melbourne, Victoria, Australia

University Fellow, University of Glasgow, Glasgow, UK, 1969-1972

Research Fellow, Rutherford High Energy Laboratory, Chilton, UK, 1966-1969

### SHORT TERM VISITING SCHOLAR:

Institute for Theoretical Physics, Academy of Science, Beijing, China, 1986

Stanford Accelerated Center, California, USA, 1985

Department of Physics, McGill University, Montreal, Canada, 1983

Department of Physics, National University of Singapore, Singapore, 1981-1982

Institute of High Energy Physics, Beijing, China, 1979-1980

Institute of Theoretical Physics, State University of New York at Stonybrook, New York, USA, 1978

Institute of Theoretical Physics, Berlin University, West Berlin, Germany, 1977

Niels Bohr Institute, Copenhagen, Denmark

Department of Physics, University of Prince Edward Island, Charlottetown, P.E.I., Canada

#### HONOR:

Fellow of Australian Institute of Physics

Marquis Who's Who in the World, 1999 – present

Marquis Who's Who in America, 1996 – present

Marquis Who's Who in Science and Engineering, 1994 – present

Phi Beta Kappa, Sigma Xi, Fellow of Australian Physical Society

#### TEACHING EXPERIENCE:

Graduate Level      Quantum Field Theory, Particle Physics,  
Mathematical Physics, and General Relativity

Advised four Ph.D. and six M.S. students of physics

Undergraduate Level      First year: General Physics

Advanced year: Quantum Mechanics,  
Electromagnetic Theory, Classical Mechanics,  
Thermodynamics, Advanced Quantum Mechanics,  
Advanced Electricity and Magnetism, Statistical  
Mechanics, Particle Physics

First year organizer: For three years, organized all  
laboratory and tutorial materials for over one  
thousand first year physics students

## **PUBLICATIONS:**

### **BOOKS:**

1. Lo, S.Y., Geometrical Picture of Hadron Scattering, World Scientific Publishing Co., Singapore, 1986
2. Lo, S.Y., Scientific Studies of Chinese Character, by Guo Ming Newspaper Publishing Co., Beijing, China, in Chinese, 1987
3. Lo, S.Y., Bonavida, B., First International Symposium of on the Current Status of the Physical, Chemical, and Biological Properties of Stable Water ( $I_E$ ) Cluster, edited by being published by World Scientific Publishing Co., Inc., 1997
4. Lo, Ip, J.S., Lo, S.Y., Wong, C.Y., Joy of the Search for Knowledge, A Tribute to Professor Dan Tsui, 1999
5. Lo, Shui-yin , Biophysics basis for acupuncture and health ( Dragon eye press) 2004
6. Lo, Shui Yin and David Gann, Double Helix Water, D& Y publishing Co., 2009 Meridian and Stable Water Clusters—A picture book: Physics and Health, Arthur House, 2013
7. Lo, Shui Yin Autism and Stable Water Clusters- Physics and Health: a Picture book, Quantum Health Research Institute, 2013
8. Autism and Stable Water Clusters----- Chinese translation from May Chen, Boris Yu and Sean Chen, published in Taiwan. 2016.
9. Lo, Shui Yin : Standing on the Shoulder of Richard Feynman to teach Physics Better, EHG Books, 2019, manufactured in USA.
10. Lo, Shui Yin: Acupuncture & Infrared Imaging, EHG Books , 2018, manufactured in USA.
11. Lo, Shui Yin and Chen, May :Meridian and Stable Water Clusters ---- manuscript in Chinese translation ready to be published.

### **Scientific publication in the field of Chinese medicine:**

1. Shui-yin Lo, A. Lo, W.C. Li, Li T.H., Li H. H., and Xu Geng, Physical properties of water with  $I_E$  structures, Modern Physics Lett. B, v 10(1996) 921-930
2. Shui-yin Lo and B Bonavida: Proceedings of First Int. Symp. Of Physical, Chemical, and Biological Properties of Stable Water ( $I_E$ ) Clusters (World Scientific 1998)---Book
3. Shui-yin Lo and W. C. Li and S. H. Huang, Water clusters in Life, Medical Hypotheses (2000)v 54(6),948-953
4. Shui-yin Lo and W. C. Li, Nanostructures in very dilute aqueous solutions, Russian Mendelev Journal of Chemistry 541.6:54-145.3,p41-48
5. Shui-yin Lo, Stories of  $I_E$  crystal, color picture books, 100 pages, unpublished
6. Shui-yin Lo, Meridians in acupuncture and infrared imaging, Medical Hypotheses
7. (2001) v58, 72-76.

8. Shui Yin Lo, Evidence For Exponential Decay Behavior in Pain Relief by Acupuncture, Medical Acupuncture, v 18, No 1, 2006
9. Shui Yin Lo, Evidence and Mechanism of External Qi in Chinese Medicine, Medical Acupuncture, V 19, NO. 4, 201, 2007.
10. Shui Yin Lo, Diagnostic, Treatment, and Prevention of Autism, American Journal of Chinese medicine, vol 40, No.1 39-56(2012)
11. Shui Yin Lo, Xu Geng, and David Gann, Evidence for the existence of stable-water-clusters at room temperature and normal pressure, Physics Lett A 373 (2009) 3872-3876
12. Shui Yin Lo, Stable Water Clusters, Meridians, and Health, International conference of Water and Health, p.193-220, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.
13. Shui Yin Lo, R. Valasquez, and H.Chu: Case Study of Atutistic Subjects with Stable Water Clusters in Panama.p.267-280, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.
14. A. Lo, J. Cardarella, J. Turner, and Shui Yin Lo: A soft Matter State of Water and the Structures it forms, p. 237-252, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.

Columnist at Acupuncture Today: bi-monthly column since June 2003.

#### SCIENTIFIC PUBLICATION in Physics

Lo, S.Y., Cai, X., Liu, B.H., and Matheys, J.P., Partition Temperature and  $e + e -$  Annihilation, Europhysics Lett. V6: 19-23, 1988

Li, Yang-Guo, and Lo, S.Y., Proton Nucleus Collision, Long Range Correlation and Pion Condensation, High Energy Phys. and Nucl. Phys., VII 717-719, 1987

Li, Yang-Guo, and Lo, S.Y., Long-Range Correlation Single-Particle Spectrum and Pion Condensation, in Proton-Nuclear Scattering , Nuovo Cim. 98: 539-549, 1987

Lo, S.Y., Massless Model for Multi Particle Production and Pion Condensation, Phys. Lett. B186: 416 420, 1987

Lo, S.Y., and Schreiber, A., Coherent Pions as the Origin of Excessive Soft Photons in Hard Collisions, Phys. Lett. B181: 475, 1986

Lam, C.S., and Lo, S.Y., Induced Production of Bosons and its Application to Centauro Events, Intern. J. Mod. Phys. VI: 451, 1986

- Lam, C.S., and Lo, S.Y., Mechanism for Coherent Production of Pions from the Decay of Resonances, Phys. Rev. D33: 1336-1343, 1986
- Li, Yang-Guo, and Lo, S.Y., The Influence of D-Wave on High Energy p-D Elastic Scattering, Physica Energie Fort is et Physica Nucleolar 8: 497-501, 1984
- Li, Yang-Guo, and Lo, S.Y., Particle Ratios at pp at Ultra-High Energies, Aust. J. Phys. 225-262, 1984
- Lam, C.S., and Lo, S.Y., Mechanism for Bunching of Bosons in High Energy Collisions, Phys. Rev. 52: 1184-1187, 1984
- Chew, C.K., Liang, T.Y., and Lo, S.Y., Particle Ratios at pp Collider, Phys. Rev. D20: 1003-1006, 1983
- Lo, S.Y., and Li, Yang-Guo, Transverse Momentum Spectrum of Inclusive Reaction in Geometrical Picture, Phys. Rev. D28: 2756-2761, 1983
- Lo, S.Y., and Li, Yang-Guo, A Unified Approach to Elastic Scattering and Inclusive Spectrum in Geometrical Picture, Nuovo Cim. Lett. D39: 33-37, 1984
- Lai, C.H., and Lo, S.Y., and Phua, K.K., Possible Existence of Further Dip Structure on  $\pi p$  and  $Kp$  Elastic Collisions, Phys. Rev. D27: 2214-2215, 1983
- Lai, C.H., Lo, S.Y., and Phua, K.K., Determination of the Pion Form Factor at Larger Momentum Transfer Squared, Phys. Lett. B 122: 177-180, 1983
- Lai, C.S., and Lo, S.Y., Alternative Formulation of the Interaction of Electromagnetic Radiation and Matter, Phys. Lett. 87A: 5-8, 1981
- Desmond, P., and Lo, S.Y., Possible Tests of  $\rho$  Meson as a Gauge Particle, Journal of Phys. G8: 319-332, 1982
- Lo, S.Y., and Chao, Wei-Gin, Nuovo Cim. 63A: 204-216, 1981
- Lo, S.Y., Li, Y.I., and Lui, Y.P., Operator Formalism Geometrical Picture and Double Charge Exchange, Journal of High Energy Phys. and Nucl. Phys., China, 5: 653-663, 1981
- Chang, Cha-Hsi, and Lo, S.Y., Structure of Multiparticles in Quark Jets, Nuovo Cim. V31: 157-162, 1981
- Malone, M.M., and Lo, S.Y., Operator Form of Droplet Model and Neutral Current, Nuovo Cim. 57A: 320-333, 1980
- Lo, S.Y., Desmond, P., and Kovac, E., General Self Dual Non-Abelian Plane Wave, Phys. Lett. 90B: 419-421, 1980

- Chew, C.J., Lo, H.D., Lo, S.Y., and Phua, K.K., Particle Ratios-Quarks and Chao-Yang Statistics, J. Phys. G6: 17-24, 1980
- Clarke, D.J., and Lo, S.Y., Spin Structure of Proton-Proton Scattering in the Current-Current Interaction Picture, Phys. Lett. 87B: 379-382, 1979
- Kovacs, E., and Lo, S.Y., Self-Dual Propagating Wave Solutions in Yang-Mills Gauge Theory, Phys. Rev. D19: 3649-3653, 1979
- Lo, S.Y., and Melia, F., Static Quark Potential, Nuovo Cim. 50A: 90-96, 1979
- Kovacs, E., and Lo, S.Y., Index Summery of Classical Yang-Mills Fields, Phys. Rev. D19: 2966-2973, 1979
- Clarke, D., and Lo, S.Y., The Appearance of the Second Dip in pp Scattering, Phys. Rev. D20: 193-201, 1979
- Box, M.A., Lo, S.Y., McKeller, B.H.J., and Reich, M., The Application of the Rayleigh-Gans Approximation to Scattering by Polydisperson, Quarterly J. of the Royal Meteor Soc. 104: 959-969, 1978
- Chew, C.D., Lo, S.Y., and Phua, K.K., Suppression Factor in the Decays of the  $\psi$  Family, Phys. Rev. 18: 2495, 1978
- Kellett, B.H., Joshi, G.C., and Lo, S.Y., Factorization in the Central Region of Inclusive Reactions, Nuovo Cim. 47A:281-286, 1978
- Melia, F., and Lo, S.Y., Linear Planar Wave Solutions of the Yang-Mills Theory, Phys. Rev. 77B: 71-72, 1978
- Lo, S.Y., and Chang, C.Y., Classification of Weakly Interacting Particles, Lett. Nuovo Cim. 22: 567-572, 1978
- Kellett, B.H., Joshi, G.C., and Lo, S.Y., Factorization in Inclusive Reactions II, Nuovo Cim. 41A: 351-358, 1977
- Kellett, B.H., Joshi, G.C., and Lo, S.Y., Factorization in Inclusive Reactions, Nuovo Cim. 41A: 331-350, 1977
- Box, M.A., Lo, S.Y., McKellar, B.H.J., and Reich, M.H., Atmospheric Turbidity and the Circular Solar Radiations, Applied Optics 16: 341-344, 1977
- Malone, M.M., and Lo, S.Y., Quark Fragmentation Models, Nuovo Cim. 46: 455-467, 1978
- Malone, M.M., and Lo, S.Y., Minimal Rule and Fragmentation Model, Phys. Rev. D16: 2184-2195, 1977

Lo, S.Y., Low, H.B., Phua, K.K., and Chan, S.C., The Implication of Chou-Yang Model in  $\pi$  Elastic Scattering, Phys. Rev. D17: 802-805, 1978

Lo, S.Y., A Classical Solution, Lett. Nuovo Cim. 44A:187-190, 1978

Lo, S.Y., and Lai, C.S., Study of Energy Dependence in Geometrical Models, J. Phys. G3: 465-472, 1976

Lo, S.Y., Joshi, G.C., and Kellett, B., Quark Gluon Model for Total Cross Section, Lett. Nuovo Cim. 17: 535, 1976

Lo, S.Y., and Thulborn, E., Hadron Form Factors, Phys. Rev. D16: 2251-2255, 1976

Lo, S.Y., Possible Origin of Zwig's Rule, Lett. Nuovo Cim. 17: 405-413, 1976

Box, M.A., and Lo, S.Y., Approximate Determination of Aerosol Size Distribution, Applied Meteorology 15: 1068-1076, 1976

Lo, S.Y., Fragmentation of Pion Near Phase Space Boundary, Nuovo Cim. 34A: 89-98, 1976

Lo, S.Y., On the New Quantum Number in Nieh-Wu-Yang's Theory, Phys. Rev. D13: 184, 1976

Lo, S.Y., Possible Selection Rules for the Decays of  $J/\psi$  and  $\psi'$  Phys. Rev. D11: 1358-1361, 1975

Lo, S.Y., Constraints of Disfavored Fragmentation, Phys. Rev. D11: 1358-1361, 1975

Lo, S.Y., Are Annihilations Processes Statistical? Nuovo Cim. V12: 542-544, 1975

Lo, S.Y., Phua, K.K., and Low, H.B., An independent Determination of SU(3) Couplings from Inclusive Reactions, Nuovo Cim. 30A: 221, 1975

Lo, S.Y., and Clarke, D., The Shift of Peaks and Dips of Elastic Scattering in Chou-Yang Model, Phys. Rev. D10: 1519-1526, 1974

Lo, S.Y., and Joshi, G., Factorization in Two Body Scattering, Nucl. Phys. 93: 405-415, 1975

Lo, S.Y., The Minimal Rule of Hadron Scattering, Lett. Nuovo Cim. 10:41-46, 1974

Lo, S.Y., and Noble, D., Study of K+p Inclusive Reaction at 10 Ge V/C, Nuovo Cim. 22A: 137-156, 1974

Lo, S.Y., Lai, C.S., and Noble, D., Gentle Fragmentation of Hadrons, Phys. Rev. D8: 1598-1602, 1973

- Lo, S.Y., and Lai, C.S., Possible Consequences of Quark Model in Fragmentation Processes, *Aust. J. Phys.* 26: 291-299, 1972
- Lo, S.Y., Selection Rules for Hadron Scattering, *Lett. Nuovo Cim.* V4: 262-266, 1972
- Lo, S.Y., and Thompson, G.D., High Energy pp Scattering, Current-Current Interaction and Droplet Model, *Lett. Nuovo Cim.* V3: 223-226, 1972
- Lo, S.Y., and Phua, K.K., Selection Rules for Inclusive Reactions, *Phys. Lett.* 38B: 415-418, 1972
- Lo, S.Y., and Reid, A.W.,  $\pi$ N Scattering in the Operator Droplet Model, *Nucl. Phys.* B36: 493-511, 1972
- Lo, S.Y., The Forbidden Emission of Soft Pions at Asymptotic Energy, *Lett. Nuovo Cim.* V2: 1091-1095, 1971
- Lo, S.Y., and Lai, C.S., Sum Rule for  $e^-e^+$  Annihilation and  $U(3) \times U(3)$  Symmetry Breaking, *J. Phys. A*: 859-861, 1971
- Lo, S.Y., and Lai, C.S., Symmetry Breaking Parameters under  $U(3) \times U(3)$  and  $\eta$ -X mixing, *Nuovo Cim.* 4A: 198, 1971
- Lo, S.Y., and Lai, C.S., Symmetry Breaking Under  $U(3) \times U(3)$ , *Nuovo Cim.* 4: 1037-1043, 1970
- Lo, S.Y., The Factorization of Multipion Production, *Lett. Nuovo Cim.* 3: 555-558, 1970
- Lo, S.Y., Chou-Yang Model, Current-Current Interaction and Nucleon-Nucleon Scattering, *Nucl. Phys.* B7: 286-300, 1970
- Lo, S.Y., Zeros in the Droplet Model, *Lett. Nuovo Cim.* 2:124-126, 1969
- Lo, S.Y., The Shape of Mesons, *Nucl. Phys.* 9B: 10-16, 1969
- Lo, S.Y., The Neutron Form Factor, *Phys. Lett.* 27B: 308, 1968
- Lo, S.Y., Field-Current Identity, Universality and  $K/13$  Decay, *Nucl. Phys.* B7: 68-78
- Lo, S.Y., Meson Production from Electron-Positron Annihilation, *Phys. Rev.* 148: 1431-1436
- Lo, S.Y., and Freund, P.G.O.,  $M(12)$  Prediction for PP Scattering, *Phys. Rev.* 140: B927-B928
- Lo, S.Y., and Freund, P.G.O., Baryon-Antibaryon Scattering in the  $M(12)$  Symmetry Scheme, *Phys. Rev.* 140: B95-B96, 1965



Lo, S.Y., Sum Rules for Nonleptonic Weak Gamma-Ray of Baryons, *Nuovo Cim.* 37: 753-755, 1965

#### REVIEW PAPERS:

Lo, S.Y., On the Accuracy of One Part in  $10^{12}$  in Particle in Fields 2, Edited by Capri, A.Z. and Kamal, A.N., Plenum Press, 1983

#### INVITED PAPERS:

Lo, S.Y., Paser, Pion Condensation and Centauro Events, Proceeding of International Symposium on Cosmic Ray Superhigh Energy Interactions, Oct. 29-Nov. 3, 1986, Beijing, China, I-26 to I-51

#### PAPERS PRESENTED AT CONFERENCES:

Leverton, P., and Lo, S.Y., A Determination of Proton Form Factor up to  $q^2=200$   $\text{GeV}^2/c^2$ , paper submitted to XXII International Conference on High Energy Physics, Leipzig, DDR, 1984

Lam, C.S., and Lo, S.Y., Induced Transitions of Pions and Unusual Charge Distribution, paper submitted to XXII International Conference on High Energy Physics, Leipzig, DDR, 1984

Lam, C.S., and Lo, S.Y., Induced Production of Bosons and its Application to Centauro Events, paper submitted to XXII International Conference on High Energy Physics, Leipzig, DDR, 1984

Li, Yang-Guo, and Lo, S.Y., Nucleus Elastic Scattering at Energies up to  $10^4$  TeV, paper presented at Asia-Pacific Physics Conference, Singapore, June 12-18, 1983

Li, Yang-Guo, and Lo, S.Y., The Role Multiple Scattering in Inclusive Reactions, paper delivered at Asia-Pacific Physics Conference, Singapore, June 12-18, 1983

Lo, S.Y., Propagating Waves in Yang-Mills Gauge Theory, Proceedings of International Conference of Particle Physics, Guanzhou, China, 1125-1130, 1980

Lo, S.Y., Clarke, K.J., and Malone, M.M., Spin Structure and Dip Development in Elastic Proton-Proton Scattering, University of Melbourne preprint, UM-P-79/49, Proceedings of International Conference of Particle Physics, Guanzhou, China pp 813-831, 1980

Lo, S.Y., Stringent Limit on Direct Coupling of Electron and Hadron, Proceedings of the 6th AINSE Nuclear Physics Conference, Abstract only, 1976

Lo, S.Y., Fragmentation Processes at High Energy, Fifth AINSE Nuclear Physics Conference, Australian National University, Canberra, Paper 43, Abstract only, 1974

Lo, S.Y., Geometrical Picture of Hadron Scattering, Proceedings of 1978 International Meeting of Frontiers of Physics, Singapore, Edited by Phua, K.K., *et al*, pp 939-970, 1978

Lo, S.Y., Classical Chromodynamics (CCD) A Derivation of Heavy Quark Bound States, Proceedings. of 1978 International Meeting on Frontier of Physics, Singapore, Edited by Phua, K.K., *et al*, 971-976, 1978

Lo, S.Y., Remarks on Bounds, Multiplicities and Energy Dependence, Proceedings of Colloquium on High Multiplicities, pp 159, Edited by Krzywicki, A., *et al*, Laboratoire de Physique Ecole Polytechnique, Paris, 1970

#### PREPRINTS AND UNPUBLISHED WORKS:

Lo, S.Y., and Lai, C.S., Feynman's Path Integral Formalism, Dirac Equation and Nonintegrable Phase Factor, University of Melbourne Preprint UM-P-81/73

Malone, M.M., and Lo, S.Y., Development of Dips and Peaks in Elastic Scattering at Isabelle Energies, University of Melbourne Preprint UM-P-79/27

Lo, S.Y., Media, F., Warner, R.C., and Joshi, G.C., Derivation of the Heavy Quark Bound States from Classical Chromodynamics, University of Melbourne Preprint, UM-P-78/77

Lo, S.Y., Low, H.D., Phua, K.K., and Chan, S.C., Is the Asymptotic Value of the Ratio  $\sigma_T(\pi p)/\sigma(pp)=2/3$  Sacred?

Box, M.A., Lo, S.Y., and MacKellar, B.H.M., Aerosol Parameter Determination from Turbidity Measurements using the Anomalous Diffraction Approximation, UM-P-76/3

Box, M.A., and Lo, S.Y., Tables of Turbidity Parameters for a Haze-H Aerosol, University of Melbourne Preprint UM-P-75/26

Lo, S.Y., Stringent Limit on Direct Coupling of Electron and Hadron, University of Melbourne Preprint UM-P-75/1

Lo, S.Y., A Model for Diffractive Excitation Processes, Rutherford Laboratory Preprint, RPP/A55, RPP/A 57, 1968

Lo, S.Y., The Path Approximation in Strong Interaction, Rutherford Laboratory Preprint RPP/A, 1966

Lo, S.Y., Electron as a Probe of Weak Interaction, Rutherford Laboratory Preprint RPP/14, 1966

Lo, S.Y., The Hypothesis of Spin-Unitary Sine, Independence in Hadron Scattering and Reactions Processes, EFINS 66-67, 1966

Thomas, E.A., and Lo, S.Y., Scalar Mesons as Higgs Particles, UM-P-83/19

#### PUBLICATIONS ON THE BASER PROJECT:

Tsao, C.C., Lobo, J.D., Okumura, M., and Lo, S.Y., Generation of Charged Droplets by Field Ionization of Liquid He, submitted for publication

Lo, S.Y., Lobo, J.D., Blumberg, S., Dibble, T.S., Xu, Z., Tsao, C.C., and Okumura, M., Generation of Energetic He Atom Beams by a Pulsed Positive Corona Discharge, J. Appl. Phys. 81, Vol. 81: 5896-5904, 1997

Lo, S.Y., Highly Charged Superfluid Helium Cluster Beam, Int'l. J. Mod. Phys. B, Vol. 10: 713-727, 1996

Lo, S.Y., and Ruan, Tu-nam, Production of Coherent Bosons by Multiphoton Ionization Processes, submitted for publication

Lo, S.Y., and Ruan, Tu-nam, Enhancement of Nuclear Fusion Rate Among Coherent Bosons, submitted for publication

Lo, S.Y., and Ruan, Tu-nam, Quantum Stimulated Raman Scattering, accepted for publication in Communication in Theoretical Physics

Lo, S.Y., Enhancement of Nuclear Fusion in a Strongly Coupled Cold Plasma, Mod. Phys. Lett. B V16: 1207-1211, 1989

#### PUBLICATION ON STABLE WATER CLUSTERS ( $I_E$ ) PROJECTS AND MEDIAL PHYSICS:

Shui-yin Lo and Wenchong Li: Onsager's Formula, Conductivity, and Possible New Phase Transition, Modern Physics letters B, V .13(1999) 885-893

Shui-yin Lo, Anomalous state of Ice, Modern Physics Lett B, V 10(1996) 909-919

Shui-yin Lo, A. Lo, W.C. Li, Li T.H., Li H. H., and Xu Geng, Physical properties of water with  $I_E$  structures, Modern Physics Lett. B, v 10(1996) 921-930

Shui-yin Lo and B Bonavida: Proceedings of First Int. Symp. Of Physical, Chemical, and Biological Properties of Stable Water ( $I_E$ ) Clusters (World Scientific 1998)---Book

Shui-yin Lo and W. C. Li and S. H. Huang, Water clusters in Life, Medical Hypotheses (2000)v 54(6),948-953

Shui-yin Lo and W. C. Li, Nanostructures in very dilute aqueous solutions, Russian Mendeleev Journal of Chemistry 541.6:54-145.3,p41-48

Shui-yin Lo, Stories of  $I_E$  crystal, color picture books, 100 pages, unpublished

Shui-yin Lo, Meridians in acupuncture and infrared imaging, Medical Hypotheses (2001) v58, 72-76.

Shui Yin Lo, Evidence For Exponential Decay Behavior in Pain Relief by Acupuncture, Medical Acupuncture, v 18, No 1, 2006

Shui Yin Lo, Evidence and Mechanism of External Qi in Chinese Medicine, Medical Acupuncture, V 19, NO. 4, 201, 2007.

Shui Yin Lo, Diagnostic, Treatment, and Prevention of Autism, American Journal of Chinese medicine, vol 40, No.1 39-56(2012)

Shui Yin Lo, Xu Geng, and David Gann, Evidence for the existence of stable-water-clusters at room temperature and normal pressure, Physics Lett A 373 (2009) 3872-3876

Shui Yin Lo, Stable Water Clusters, Meridians, and Health, International conference of Water and Health, p.193-220, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.

Shui Yin Lo, R. Valasquez, and H.Chu: Case Study of Atutistic Subjects with Stable Water Clusters in Panama.p.267-280, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.

A. Lo, J. Cardarella, J. Turner, and Shui Yin Lo: A soft Matter State of Water and the Structures it forms, p. 237-252, at California Institute of Technology, Pasadena, CA, USA, Guest editors: Benjamin Bonavida, and Shui Yin Lo, Vol 3, issue 3-4, Begell House 2012.

### **Articles published in Acupuncture Today as a columnist**

Molecular Basis of Meridians April, 2009 (Vol. 10, Issue 04)  
Evidence of Instant Effect of External Qi November, 2008 (Vol. 09, Issue 11)

Acupoints for Thyroid Disorders August, 2008 (Vol. 09, Issue 08)  
Customized Diagnosis, Instant Verification and Personalized Modality  
April, 2008 (Vol. 09, Issue 04)

Perfect Symmetry, Perfect Health January, 2008 (Vol. 09, Issue 01)  
Warming Up and Cooling Down Simultaneously by External Qi  
November, 2007 (Vol. 08, Issue 11)

A Sign of Serious Disease: Heating Up the Body With External Qi  
September, 2007 (Vol. 08, Issue 09)

Oscillating Nature of Recovery From Serious Sickness July, 2007 (Vol. 08, Issue 07)

Predictive Power of Meridian Theory May, 2007 (Vol. 08, Issue 05)  
Improve Your Brain With Qi March, 2007 (Vol. 08, Issue 03)

How Many Different Kinds of Lower Back Pain Are There? January, 2007 (Vol. 08, Issue 01)  
 Are You Ready for the Bird Flu Yourself? November, 2006 (Vol. 07, Issue 11)  
 How Soon Does Acupuncture Begin to Work? September, 2006 (Vol. 07, Issue 09)  
 Breast Cancer, Breast Abnormalities, and Infrared Imaging November, 2005 (Vol. 06, Issue 11)  
 Infrared Evidence for External Qi July, 2005 (Vol. 06, Issue 07)  
 Cancer, Acupuncture, and Infrared Imaging May, 2005 (Vol. 06, Issue 05)  
 How Does Moxibustion Work Scientifically? February, 2005 (Vol. 06, Issue 02)  
 What Is Qi? Can We See Qi? September, 2004 (Vol. 05, Issue 09)  
 What Are Acupoints? Can We See Them? May, 2004 (Vol. 05, Issue 05)  
 What Are Meridians? Can We See Them? March, 2004 (Vol. 05, Issue 03)  
 Old Pain, New Pain, Hot Pain and Cold Pain January, 2004 (Vol. 05, Issue 01)  
 Diabetes and Acupuncture November, 2003 (Vol. 04, Issue 11)  
 How Does Infrared Imaging Help Acupuncture? June, 2003 (Vol. 04, Issue 06)

#### CONFERENCE CONTRIBUTIONS:

Lo, S.Y., Nuclear Fusion in a Strongly Coupled Cold Plasma, Bull. Am. Phys. Soc. V34 No. 9 2162, 1989

Lo, S.Y., Enhancement of Nuclear Fusion from Coherent Deuterons, Bull. Am. Phys. Soc. V34, No. 8 1811, 1989

#### INTERNAL REPORTS, MONTHLY REPORTS:

Monthly reports containing detailed theoretical and experimental progress carried out. Each monthly report has an average of seventy pages. Edited by Lo, S.Y.

##### **American Technologies Group, Inc. Research and Development Reports**

2000, ATGPR-2000 to ATGPR-2003, three issues  
 1999, ATGPR-9901 to ATGPR-9912, twelve issues  
 1998, ATGPR-9801 to ATGPR-9812, twelve issues  
 1997, ATGPR-9701 to ATGPR-9712, twelve issues  
 1996, ATGPR-9601 to ATGPR-9612, twelve issues  
 1995, ATGPR-9501 to ATGPR-9512, twelve issues  
 1994, ATGPR-9407 to ATGPR-9412, six issues

##### **Institute of Boson Studies Progress Reports**

1991, IBS-91-1 to IBS-91-7, seven issues  
 1990, IBS-90-1 to IBS-90-12, twelve issues  
 1989, IBS-89-1 to IBS-89-12, twelve issues

1988, IBS-88-1 to IBS-88-12, twelve issues  
1987, IBS-87-9 to IBS-87-12, four issues

## **PATENTS , BEFORE 2001**

<b><u>Title</u></b>	<b><u>Application No.</u></b>	<b><u>Filing Date</u></b>
Improved Surfactant Solutions	US Patent 985,148	December 4, 1997
Water Based Additive for Suppression of Coke Formation	US Patent 985,145	December 4, 1997
Water Based Fuel Additive that Reduces Carbon Deposition in Combustion Engines	US Patent 985,144	December 4, 1997
Methodology for Varying Concentrations of Crystal Structured Liquids	US Patent 889,253	July 10, 1997
Method, Process and Product for Influencing Chemical Reactions and Activities, Including Biochemical and Inorganic	US Patent 846,964	April 29, 1997
Growing Structure Around Charged Particles to Form a Structured Liquid and Increasing the Strength of the Structured Liquid	US Patent 799,645	February 10, 1997
Structured Materials	US Patent 699,972	August 20, 1996
A Method for Generating Nuclear Fusion Through High Pressure	US Patent 661,759	June 11, 1996
Macroscopic Apparatus	US Patent 645,919	May 14, 1996
Compact Vacuum Distillation Method	US Patent 638,608	April 26, 1996
A Descalant Comprising Structure Liquid Solid	US Patent 587- 880	January 18, 1996
A Combustion Enhancing Fuel Additive Comprising Microscopic Water Structures	US Patent 558,330	November 15, 1995
Compact Vacuum Distillation Device	US Patent 530,789	September 20, 1995
Enhancing Biological, Biochemical & Chemical Reactions Using Structured Liquids and Solids	US Patent 520,636	August 29, 1995
Macroscopic Apparatus	US Patent 320,216	October 11, 1994
Forming Charges in a Fluid and Generation of	US Patent	January 4, 1994

a Charged Beam	177,669	
Emission Control Device (Air Intake System Device)	US Patent 941,778	September 9, 1992
Method & Apparatus for Generating Nuclear Fusion Energy by Coherent Bosons	US Patent 801,804	December 1, 1991
Emission Control System	US Patent 554,279	August 8, 1990
Method and Apparatus for Forming a Coherent Beam of Bosons with Mass	US Patent 4,875,213	
Forming Charges in Liquid and Generation of Charged Cluster	US Patent 338,706 US Patent 537,444	June 12, 1990
Enhanced Fusion Decay of Deuterium	US Patent 338,706	April 12, 1990
Method and Apparatus for Generating Energy	US Patent 337,020	April 22, 1989
Particle Accelerator	US Patent US Patent 542,587	May 4, 1989 June 25, 1990
Creating Coherent Charged Bosons	US Patent 340,951	April 20, 1989
Nuclear Fusion Process	US Patent 338,707 US Patent 421,601	April 13, 1989 October 16, 1989
Production of Coherent Deuterons	US Patent 338,705 US CIP 340,051 US CIP 366, 890	April 14, 1988 April 18, 1989 June 15, 1989
Method and Apparatus Utilizing Decay of Coherent Bosons Plasma	US Patent 338,706 US Patent 340,951	April 13, 1989 October 16, 1989
Methods and Apparatus for Forming Coherent Clusters	US Patent 169/648 PCT AU 89/00108	March 18, 1988 March 17, 1989
Method and Apparatus for Cooling Electrons, Ions or Plasma	US Patent 103,631 PCT AU88/00383	October 1, 1987 September 30, 1988
Accelerator for Coherent Bosons	US Patent 4,926,436	October 4, 1990
Method and Apparatus for Producing Nuclear Energy	US Patent 203,678 US Patent	June 7, 1988 April 11, 1989

	338,706	
	US Patent	April 20, 1989
	340,950	
	US Patent	January 4, 1990
	461,014	
Electrical Conductor	US Patent	
	4,995,699	
Generating a Coherent Beam of Bosons	US Patent	August 23, 1987
	035,734	
	PCT AU 86/00212	July 25, 1986
	US CIP 343,176	April 25, 1989

The above patents and patent applications have also been filed in the European or Asian countries. Their listings have been omitted for simplicity.  
Recent patents are not included



