

Curricula vitae of Professor Ho Peng Yoke

Name: HO Peng Yoke 何丙郁

Date & place of birth: 4th April 1926; Perak, Malaysia

Marital Status: Married, with five children

Citizenship: Australian

Education background:

St. Michael's Institution, Ipoh, Malaysia, (1933 - 1940)

Raffles College, Singapore, (1946 - 1949)

University of Malaya, Singapore, (1949 - 1950).

Degrees and Diploma awarded:

Diploma in Science, Raffles College (1949),

B.Sc. (1st Class Honours in Physics), University of Malaya (1950);

M.Sc. University of Malaya (1951);

Ph.D. University of Malaya in Singapore (1959);

D.Sc. University of Singapore (1969); D.Litt.(*honoris causa*) University of Edinburgh (1995)

Professional honours:

Emeritus Director, Needham Research Institute, Cambridge (2002-)

Honorary Chair Professor, National Tsinghua University, Hsinchu (2002-2004)

Honorary Advisory Professor, Shanghai Jiaotong University (1999);

Academician, International Eurasian Academy of Science (1997);

President, History of Science Section, British Association for the Advancement of Science (1990/91);

Professorial Research Associate, SOAS, University of London (1990-95);

Honorary Professor, University of Science and Technology, Beijing (1990-);

Professor Emeritus, Griffith University (1989-);

Honorary Professor, Chinese Academy of Science, Beijing (1989-);

Member, Academia Sinica (1988-);

Honorary Professor, North-West University, Xi'an (1986-);

Chartered Physicist (United Kingdom) (1985-);

Fellow of the Australian Academy of Humanities (1976-);

Fellow of the Institute of Physics, London (1971-)

Appointments previously held:

University of Malaya, Singapore

Demonstrator in Physics (1950/1951); Assistant Lecturer in Physics (1951/1954)

Lecturer in Physics (1954/1960)

University of Malaya in Singapore and later University of Singapore

Reader in History of Science (1960/1964)

University of Malaya, Kuala Lumpur

Professor of Chinese Studies (1964/1973); Dean, Faculty of Arts (1967/1968)

Griffith University, Queensland, Australia

Foundation Professor (1973/1989); First Chairman, School of Modern Asian Studies (1973/1978)

University of Hong Kong (on secondment)

Professor of Chinese and Head of Department (1981/1987); Master of Robert

Black College (1984/1987)
Needham Research Institute, Cambridge
Director (1990-2001)

Awards, Prizes and Honours:

Chin Sem-lin Scholarship (1939/1940), Malayan Union Scholarship/ Federation Scholarship (1946/1950); University Book Prize (1950); Shell Research Fellowship (1950/1951); Carnegie Corporation of New York Travel Award (1964); United States government Council of Leaders and Specialists Award (1967); Member of Senior Combination Room, Gonville and Caius College, Cambridge (1968); 1969 Edward Hume Lecturer, Yale University, Conn. 1979; Asian Fellow Australian National University; Leverhulme Visiting Professor, Keio University, Tokyo (1975/1976); Visiting Fellow Tokyo University (1979); Honorary Professor, University of Hong Kong (1979), Honorary Fellow, Hong Kong Society of Translation (1982); National Science Council Distinguished Visiting Professor, National Tsinghua University, Hsinchu (February to June 1991); Senior Member, Robinson College, Cambridge (1990-); Member, Senior Combination Room, Gonville and Caius College, Cambridge (1990-); National University of Singapore Isaac Manasseh Meyer Fellow (Dec 1-15, 1991), Tan Kah Kee Foundation Forum Lecturer, 1992; Visiting Professor, Nanyang Technological University, Singapore (Sept. 10-Dec 10, 1993); National Science Council Research Professor, Academia Sinica (Sept 1994-Feb 1995).

Lecturing experience in other universities:

Queens' College, Cambridge (1958); Yale University (1965 & 1969); Hamburg University (1968); University of Waikato, Massey University and the Victoria University of Wellington, New Zealand (1972) the Australian National University, Sydney University, Melbourne University, University of New South Wales, Monash University, Australia (1972); the University of Queensland (1973/1976); Universiti Sains Malaysia, Penang (1976); RELC, Singapore (1976); University of Tokyo (1976) ; Institute of the History of Natural Science, Beijing (1978, 1997), the Chinese University of Hong Kong (1982); Zhongshan University, Guangzhou (1982); Cheng Chi National University, National Normal University, National Taiwan University, and Institute of Modern History, Academia Sinica, Taipei (1982); Xibe University, Xi'an (1984, 1986,1997); Stanford University, California (1985); Tamkang University, National Tsinghua University, Tunghai University, National Chengkung University and Academia Sinica, Taiwan (1989); 1989); University of Cambridge (1990); Beijing Normal University (1990); Durham University (1991); National Singapore University (1991); Baptist College of Hong Kong (1992); Edinburgh University (1992); National Seoul University (1992); Nanyang Technological University, Singapore (1992), Technological University, Berlin (1997), National Sun Yat-sen University, Kaohsiung (2000), Oxford University (2001), City University of Hong Kong (2002), Universiti Tunku Abdul Rahman, Kuala Lumpur (2003).

Academic services rendered to outside bodies:

External examiner, the Chinese University of Hong Kong, (B.A. degree); external

examiner, the Australian National University (Ph.D. degree); external examiner, the University of Hong Kong (M.Phil. and Ph.D.degrees); reader, the Princeton University Press, the Hong Kong University Press, and the National Tsinghua University Press, Hsinchu; assessor or reviewer, the Australian Research Grant Committee and the U.S. National Science Foundation; member, government boards and foundations; internal examiner, Ph.D. degree examination, London University (1993), external examiner, Ph.D. degree examination, Faculty of Architecture, University of Hong Kong (1998); reviewer for the Institute of History, National Tsing Hua University, Hsinchu (2000).

Public services and related activities:

Chairman, Science Exhibition Committee, Raffles College Chemical and Physical Society (1949); Chess Champion, Winner of Oppenheim Shield, Raffles College (1949); Table Tennis Captain, Raffles College (1947-1949); Chairman, Ipoh Undergraduates University Endowment Fund Dance Committee (1949); Honorary Treasurer, University of Malaya Academic Staff Association (1955); Member, Textbooks and Syllabuses Sub-Committee, Singapore (1959-62); Member, Education Advisory Council, Singapore (1960-3); Member, Education Finance Board, Singapore (1960-3); Chairman, University of Malaya Bursaries Board, Singapore 1961); Chairman, University of Singapore and University Bursaries Board, 1962); Member of Library Committee nominated by Senate, University of Malaya in Singapore and University of Singapore (1960-4); Member, Board of Studies for Chinese and Malay Studies, University of Malaya in Singapore (1961); Chairman, Public Lectures Committee, Faculty of Science, University of Singapore (1962-3); Chairman, University of Singapore Staff Tennis Club (1961-3); Member, Singapore Public Service Commission Scholarship Board,(1961-4); Panel member, Examination Syndicate, Federation of Malaya (1961-4); Acting Chairman, Publication Committee, University of Malaya (1965); Member, Loke Yew Scholarship Trustees Board (1965); Vice-President, Malaysian Society of Orientalists (1967); Public Orator, University of Malaya (for the award of Honorary Doctor of Law Degree to President F. Marcos) (January 1968); Member of University Council, University of Malaya (1967-70); Member, National Consultative Council, Malaysia (1969-71); Head, Tunku Abdul Rahman College, Kuala Lumpur (1970-2); Member, Chinese Foundation Advisory Board, Hong Kong (1981-2); Member, Hong Kong University Press (1983-5); Director, East Asian History of Science Trust Hong Kong (1984-1987), Chief Editor, Bulletin of Chinese Studies (1985-7). Member of European Review Board, Chiang Ching-kuo Foundation (1990-92) (1992-94) (1994-96) (1996-98) (1998-2000) (2001-2002). Life Member, Board of Advisors, Chinese Civilization Education Trust, Hong Kong (1998 -), Member, East Asian History of Science Trust, UK (1991-2003), Trustee of the Needham Research Institute (2003-2008).

List of Publications

(a) Books

The Astronomical Chapters of the Chin Shu, (Mouton, Paris 1966)

The Birth of Modern Science in China, (Inaugural Lecture) (University of Malaya, Kuala Lumpur, 1967)

Clerks and Craftsmen in China and the West (in collaboration with Joseph Needham),

(Cambridge University Press, 1970)

Lu Yu, the Poet-Alchemist (with Goh Thean Chye and Beda Lim), Australian National University Asian Studies Occasional Paper No. 13 (Canberra, 1972)

Science and Civilisation in China vol. 5, pt. 3 (in collaboration with Joseph Needham) Cambridge University Press, 1976)

Modern Scholarship on the History of Chinese Astronomy, Australian National University Asian Studies Occasional Paper No. 16 (Canberra, 1977)

On the Dating of Taoist Alchemical Texts, Griffith Occasional Paper Monograph No.1 (Brisbane, 1979)

Daozang Danfang jianyuan 道藏丹方鉴原(Tuku Tao's *Tan-fang chien-yuan*: a 10th-Century Alchemy Source-Book) (in Chinese, with an Introduction in English) (Centre of Asian Studies, University of Hong Kong, 1980)

Science and Civilisation in China vol. 5, pt.4 (in collaboration with Joseph Needham), (Cambridge University Press, 1980)

The Swinging Pendulum: Science in East and West with special reference to China , (Centre of Asian Studies, University of Hong Kong, 1982)

Zhongguo kejishi gailun 中国科技概论 (Outline of History of Science in China), (in Chinese) (with Ho Koon Piu), Zhonghua Book Co. (Hong Kong, 1983)

Ningwang Zhu Quan jiqi Gengxin yuce 宁王朱权及其庚辛玉册 (Prince Zhu Quan and his *Gengxin yuce*) (in Chinese) (with L.Y.Chiu) Griffith Asian Papers Monograph No. 8 (Hong Kong, 1983)

Li, Qi and Shu: An Introduction to Science and Civilisation in China, (Hong Kong University Press, 1985), re-published in India under another title *An Introduction of Chinese Science* (Oxford University Press in India, 1985), reprinted (2000), Dover Publications Inc.

Ming shilu zhong zhi tianwen ziliao 明实录中之天文资料 (Astronomical Records in the Ming Veritable Histories) (in Chinese) (with L.Y. Chiu), 2 vols. Department of Chinese, University of Hong Kong, vol.1 (Hong Kong, 1985), vol.2 (Hong Kong, 1986)

Wo yu Li Yuese 我与李约瑟 (I and Joseph Needham) (in Chinese), Sanlian BookCo. (Hong Kong, 1985)

Dunhuang canjuan zhan yunqi shu 敦煌残卷占云气书 (The fragmentary Dunhuang MS Zhan yunqi shu) (in Chinese) (with Ho Koon Piu) (I-wen Press, Taipei, 1986)

Science and Civilisation in China, vol.5, pt. 7 (in collaboration with Joseph Needham) (Cambridge University Press, 1987)

Cong li, qi, shu guandian lun Ziping tuimingfa 从理气数观点论子平推命法 (Looking at the Ziping Method of fate-calculation from the stand-point of the principles of li, qi and shu) (in Chinese), (Hong Kong University Press, Hong Kong 1988)

Concepts of Science and Traditional Chinese Healing Arts: A Historical Overview (with P. Lisowski), (Singapore, 1993).

Hai na baichuan: Zhongxi kejijiaoliu shi 海纳百川： 中西科技交流史 (The Sea Admits the Hundred Streams: History of transmission of science and technology between China and the West) (in Chinese), (Taipei, 1994)

He Bingyu kexue jishu shi xuanji 何丙郁科学技术史选集 (Collected Papers on the history of Chinese Science and Technology) (in Chinese) (Liaoning, 2002).

Chinese Mathematical Astrology: Reaching out to the Stars, in Needham Research Institute Monograph Series (Routledge Curzon, London & New York 2003).
Personal Encounter of Islamic Lonks with Chinese Studies, CMCS Chinese Research Series No. 2 (Kuala Lumpur, 2005)
Reminiscence of a Roving Scholar: Science, Humanities and Joseph Needham, (World Scientific, Singapore and London 2005).
Xuesi licheng de huiyi: kexue, renwen, Li yuese 学思历程的回忆：科学，人文，李约瑟 (Bafangwenhua, Singapore 2006) [Chinese version of the *Roving Scholar* above.]
Explorations in Daoism: Medicine and Alchemy in Literature in Needham Research Institute Monograph Series (Routledge Curzon, Oxford & New York 2007)

:

(b) Articles in Journals and Book Chapters

- "Correlation of Equatorial Climatic Factor with Comfort", *Journal of the Institute of Heating and Ventilating Engineers*, (1952), vol.204, pp. 196-197.
- "Books on Chinese Mathematics in the University of Malaya Library", *Bulletin of the Malayan Mathematical Society*, (1954), vol.1, pp.121-132.
- "The *Chou Pei Suan Ching*", *Bulletin of the Malayan Mathematical Society*, (1957) vol 4, pp. 47- 52.
- "Spiked Comets in Ancient China" (with Arthur Beer & Joseph Needham), *The Observatory* (1957), vol.77, pp.137-138.
- "Ancient Chinese Observations of Haloes and Parhelia" (with Joseph Needham), *Weather*, (1959), vol. 14, pp. 124-134.
- "Chinese Aurorae I: A.D.1048 - 1070" (with Justin Schove), *Journal of the British Astronomical Association* (1959), vol.69, pp. 295-304.
- "The Laboratory Equipment of the Early Mediaeval Chinese Alchemists" (with Joseph Needham), *Ambix*, (1959), vol. 7, pp. 57-115.
- "An Early Mediaeval Chinese Text on Aqueous Solutions" (with Ts'ao T'ien-ch'in and Joseph Needham), *Ambix* (1959), vol.7, pp. 122 - 158.
- "Elixir Poisoning in Mediaeval China" (with Joseph Needham), *Janus*, (1959), vol. 48, pp. 221-251.
- "The Theories of Categories of the Mediaeval Chinese Alchemists", (with Joseph Needham), *Journal of the Warburg and Courtauld Institute*, (1959), vol. 22, pp. 173-210.
- "Some Errors in the Catalogues on Ancient and Mediaeval Chinese Cometary Observations", *Actes du IXe Congress International d'histoire de Sciences* (1960), pp. 493-498.
- "An 8th-Century Meridian Line", (with Beer, Lu, Needham, Pulleyblank and Thompson), *Vistas in Astronomy*, vol. 4, (1961), pp. 3-28.
- "Ancient and Mediaeval Observations of Comets and Novae in Chinese Sources", *Vistas in Astronomy*, vol. 5 (1962), pp. 127-225.
- "Influence of Chinese Astronomy in Mediaeval Annam", *Actes Xth International Congress of the History of Science* (1964), pp. 559-563.
- "Natural Phenomena Recorded in the *Dai-Vie't Su'-Ky Toan-Thu'*, an Early Annamese Historical Source", *Journal of the American Oriental Society* (1964), vol. 84, pp. 127-149.

- "The Lost Problems in the *Chang Chiu-chien suan-ching*, a 5th-Century Chinese Mathematical Manual", *Oriens Extremus* (Hamburg), (1965), vol.12, pp. 37-53.
- "The 1006 Supernova in Far Eastern Sources" (with Bernard R. Goldstein), *The Astronomical Journal* (1965), Vol. 70, No.9, pp. 748-753.
- "Indian Science in East Asia", *Proceedings of the International Conference-Seminar of Tamil Studies, Kuala Lumpur, 17-23 April 1966*, (1967), vol.1, pp. 39-52.
- "Chinese Records of Sunspots and Aurorae in the Fourth Century A.D.", (with Justin Schove), *Journal of the American Oriental Society*, (1967), vol. 87, pp. 105-112.
- "Alchemy of Stones and Minerals in Chinese Pharmacopoeias", *The Chung Chi Journal*, (1968), vol. 7, pp. 155-170.
- "The Astronomical Bureau in Ming China", *Journal of Asian History* (1969), vol. 3ii, pp. 135-57.
- "Traditional Chinese Scientific Terminology and Modern Scientific Terminology", in Alisjahbana, *The Modernisation of Languages in Asia*, (Kuala Lumpur, 1970), pp. 83-90.
- "*Danfang jingyuan kao* 丹房鏡源考 (A Study of the *Danfang jingyuan*) (in Chinese) (with Su Ying-hui), *Journal of Oriental Studies*, Hong Kong (1970), vol. 8, pp. 1-23.
- "Ancient Chinese Astronomical Records and their Modern Applications", *Physics Bulletin*, (1970), vol. 21, pp. 260-263.
- "Chinese Astronomical Records on Comets and Guest Stars in the Official Histories of Ming and Ch'ing and other Supplementary Sources" (with Ang Tian-Se), *Oriens Extremus* (Hamburg), (1970), vol. 17, pp. 63-99.
- "Alchemy in Ming China", *Actes XIIth International Congress of History of Science* (Paris, 1971), vol. 3A, pp. 119-123.
- "The Chinese Guest Star of 1054 and the Crab Nebula", (with Paar and Parsons), *Vistas in Astronomy* (1971) vol. 13, pp. 1-13.
- "Ch'in Chiu-shao, thirteenth-Century Chinese Mathematician", *Dictionary of Scientific Biography*, American Council of Learned Societies, (Baltimore, 1971), vol. 3, pp. 249-256.
- "Chu Shih-chieh, thirteenth-Century Chinese Mathematician", *Dictionary of Scientific Biography*, American Council of Learned Societies, (Baltimore, 1971), vol.3, pp. 265-71.
- "Lun *Chunyang Lu Zhenren yaoshizhi zhucheng shidai* 论纯阳吕真人药石制著成时代" (On the dating of the *Chunyang Lu Zhenren yaoshi zhi*, a pharmaceutical and Alchemical Taoist Manual), (in Chinese) (with Chen Tieh-fan), *Journal of Oriental Studies*, Hong Kong, (1971), vol. 9ii, pp. 181-229.
- "Ts'ui Fang, a forgotten 11th-Century Chinese Alchemist" (with Beda Lim), *Japanese Studies in the History of Science* (1972), No. 11, pp. 103-12.
- "The System of the *Book of Changes* and Chinese Science", *Japanese Studies in the History of Science*, (1972), No.11, pp. 23-39.
- "Marai Daigaku ni okeru kagakushi no ichi ni kansuru hôkoku マライ大学における科学史の位置にかんする報告" (A report on the status of the history of science at the University of Malaya) (in Japanese), *Kagakushi kenkyû*, (1972), vol. 11, pp. 92-94.
- "Early Chinese Science", *Hemisphere*, (October 1972), vol. 16, pp.10-4.
- "Doctors take a New Look at Acupuncture", *Hemisphere*, (March 1973), vol. 17, pp. 10-5.

- "Elixir Plants" (with Beda Lim and Francis Morsingh), in Sivin, Nathan and Nakayama, Shigeru, *Chinese Science* (Camb. Mass. 1973), pp.153-202.
- "The Search for Perpetual Youth in China, with Special Reference to Chinese Alchemy", *Papers on Far Eastern History*, (1973), vol. 7, pp. 1-20.
- "Li Chih, thirteenth-Century Chinese Mathematician", *Dictionary of Scientific Biography*, American Council of Learned Societies, (Baltimore, 1973), vol. 8 , pp. 313-20.
- "Liu Hui, thirteenth-Century Chinese Mathematician", *Dictionary of Scientific Biography*, American Council of Learned Societies, (Baltimore, 1973) vol. 8, pp. 418-24.
- "Kalendar und Datierung", *China-Handbuch*, (Hamburg, 1974), pp .602-606.
- "Astronomie", *China-Handbuch*, (Hamburg, 1974), pp. 63-64.
- "Magic Squares in East and West", *Papers on Far Eastern History*, (1973), vol. 8, pp. 115-41.
- "Chinese Scientific Terminology", *Papers on Far Eastern History*, (1974), vol. 9, pp. 1-14.
- "Physical Immortality in the Early 19th-Century Novel *Ching-hua-yuan*" (with Yu Wang-luen), *Oriens Extremus* (Hamburg), (1974), vol. 21, pp. 33-51.
- "Po Chu-i's Poems on Immortality" (with Goh Thean Chye and David Parker), *Harvard Journal of Asiatic Studies*, (1974), vol. 34, pp.163-186.
- "Higher Education in China", *Proceedings of the University of Adelaide Centenary Celebrations: Seminar on Asian-Australian Educational and Cultural Relations, Past, Present and Future*, (1974), pp. 101-9.
- "Chinese Alchemical and Medical Prescriptions - a Preliminary Study", *14th International Congress of the History of Science Proceedings No. 3* (1974), pp. 295-8.
- "Three Dialogues in Science", *Hemisphere*, (June 1976), vol. 20, pp. 14-21. Reprinted as "An East-West Dialogue on Science", *Asia Magazine*, (12 December 1976), pp. 13-21.
- "Huiyi Lian Shisheng xiansheng 回忆连士升先生" (Reminiscence of scholarly encounters with Mr. Lien Shih-sheng) (in Chinese), in Lien Wen-ssu and Lien Liang-ssu, *Festschrift in Memory of Lien Shih-sheng*, (Singapore 1976), pp. 40-51.
- "Yang Hui, thirteenth-Century Chinese Mathematician", *Dictionary of Scientific Biography*, American Council of Learned Societies, (Baltimore, 1976), vol .14, pp. 538-546.
- "On the *Karyû kyô*, the Fire-Dragon Manual" (with Wang Ling), *Papers on Far Eastern History*, (1977), vol.16, pp.147-159.
- "The T'ang Monk-Scientist I-Hsing", *Buddhist Studies*, (1977), vol.7, pp. 2-4; 12-13.
- "Able and Adventurous: Navigation in the Chinese Tradition", *Hemisphere*, (1977), vol. 21, pp. 2-9.
- "The Star Move Still", *Hemisphere*, (1977), vol.21, pp. 22-29.
- "Modern Scientific Development in China", *Eastern Horizon*, (April 1978), vol. 17, pp. 5-9.
- "Pride and Prejudice: Science in Cultural Conflicts between Europe andChina", *Proceedings of Asian Colloquim on Cultural Conflicts*, (Tokyo 1978), pp. 1-13.
- "Ancient Chinese Medicine", *Hemisphere* (1978), No.7, pp. 36-41.
- "Intra-Asian Influence of Science and Technology", *Proceedings of Seventh IAHA Conference* (Bangkok, 1977), pp.532-549.
- "Traditional Medicine in China Today", *Hemisphere*, (1979), vol. 23, pp. 250-6.
Translated into Chinese by Wang Hongjin in *Kaijuan* (1979), vol. 2, pp. 19-21.

- "Science and Technology in China Today", *Hemisphere*, (1979), vol. 23, pp.312-317.
- "The *Book of Changes* and Traditional Chinese Science", *Eastern Horizon*, (1979), vol. 18, No. 5, pp. 31-37.
- "A Brief History of Medicine in China" ((with F.P. Lisowsky), *Eastern Horizon*, (1980), vol.19, No. 5, pp.30-35.
- "Early (Chinese) Science and Technology" in Arthur Cotterell, *The Encyclopedia of Ancient Civilizations*, (New York, 1980), pp. 304-310.
- "Modern Scientific Development in China", *Proceedings of Fifth Leverhulme Conference, University of Hong Kong, December 1977*, (1981), pp. 265-286.
- "Ancient Chinese Mathematics", *Proceedings of the First Australian Conference of History of Mathematics*, (Clayton, Vic. 1981), pp. 91-102.
- "The *Ti-ching-t'u*, a lost manual on mining and geobotanical prospecting", *Austrina* (1982), pp. 77-92.
- "*Chikyô zu no kenkyû* 地鏡图の研究" (On the *Chikyô zu*) (in Japanese), *Festschrift in honour of Professor Yabbuuchi Kiyoshi*, (Kyoto, 1982), pp.143-153.
- "*Zaohua zhinan de yanjiu* 造化指南的研究" (On the *Zaohua zhinan*) (in Chinese), in *Explorations in the History of Science and Technology in China*, (Shanghai, 1982), pp. 357-66.
- "Keji wenxian jicun 科技文献辑存" (Restoration of some scattered fragmentary Chinese texts on traditional science and technology) (in Chinese), *Fung Ping Shan Library Golden Jubilee Essays*, vol.1, (Hong Kong, 1982), pp. 124-40.
- "In Harmony with Nature: Principles spanning the Sciences and the Humanities", *University of Hong Kong Supplementary to the Gazette*, (1982), vol.29, No. 4, all.
- "Wo dui Li Yuese he Zhongguo kejishi de renshi 我对李约瑟和中国科技史的认识" (Joseph Needham and History of Chinese Science as known to me) (in Chinese), *Bulletin of the Institute of Modern History, Academia Sinica* (Taipei, 1983), vol.12, pp.425-438.
- "Tycho Brahé (1546-1601) and China" in *Hong Kong- Denmark Lectures on Science and Humanities* (Hong Kong University Press, 1983, pp. 53-60.
- "The Special Place of the Humanities in Adapting Traditional Values to Changing Scientific and Technological Patterns and their Impact on Contemporary Society", in International Association of Universities, *Contemporary Scientific and Technological Changes: Their Impact on the Humanities in University Education*, (Paris, 1983), pp. 21-24.
- "Song Ming bingshu suojian de duyan, duwu he yanwu 宋明兵书所见的毒烟毒雾和烟雾" (Poison gas, poison fog and smoke screen in Sung and Ming military books) (in Chinese), *Papers on Chinese Studies*, (Kuala Lumpur, 1983), vol.2, pp. 1-8.
- "Li Madou jiqi zai keji chuanbo shang suo ban jiaoshe 利玛窦及其在科技传播上所扮角色" (Matteo Ricci and the part he played in the transmission of science), (in Chinese), *United Bulletin* (1984), No. 40, pp. 3-5.
- "Li Yuese zhixue fangfa 李约瑟治学方法" (Joseph Needham's methodology) (in Chinese), *Xibei daxue xuebao* (Xian, 1984), vol.14, pp.1-5.
- "Zhongxi shuxuejia zhuanqi 中西数学家传奇" (Comparative Biographies of Jerome Cardano and Qin Jiushao) (in Chinese), *Collections of Essays on Chinese Literature and History* (Shanghai, 1985), No. 1, pp. 239-70.

- "Lun Zhongguo chuantong keji zhi shengshuai 论中国传统科技之盛衰" (On the Wax and Wane of Traditional Chinese Science and Technology) (in Chinese), *Bulletin of Chinese Studies*, (1985), vol. 1, no.1, pp. 2-10.
- "A long lost astrological work: the Dunhuang MS of the *Zhan yunqi shu*", *Journal of Asian Studies*, (1985), vol. 19, No.1, pp. 1-7.
- "Maraixiya huarenshehui kanyuxue suoyong de luopan 马来西亚华人社会堪輿学所用的罗盘" (The magnetic compass used in geomancy among Malaysian Chinese society) (in Chinese), in *Essays on Science and Medicine*, (Kuala Lumpur, 1985), pp. 17-31.
- "Sanshiwunian de keji shi yanjiu shengya 三十五年的科技史生涯" (Thirty-Five Years in History of Science) (in Chinese), *Xibei daxue xuebao*, (Xian, 1987), vol. 17, No. 1, pp. 1-10.
- "Kejishi yu wenxue 科技史与文学" (History of Science and Technology and Chinese Literature), (in Chinese) *Xibei daxue xuebao*, (Xian, 1987), vol. 17, No. 2, pp.1-9.
- "Kexue wenxue yixian qian 科学文学一线牵" (A Thread linking science and literature) (in Chinese), *Mingbao yuekan*, (Hong Kong, March 1987), pp. 84-91.
- "Xifang tianwenxuejia zhuanqi 西方天文学家传奇" (Biography of a Western Astronomer) (in Chinese), in Fang Lizhi, *Kexueshi lunji 科学是论集*, University of Science and Technology, (Hefei, 1987), pp. 101-116.
- "Kejishi yu wenxue 科技史与文学" (History of Science and Technology and Literature) (in Chinese), *Proceedings of the 1986 Conference on the History of Science* (Taipei, 1987), pp. 12-17.
- "Qiang gui banmao jige lishishang de keji shuyu de xinjie 枪鬼班毛几个历史上的科技术语的新解" (New Explanations of the words qiang, gui and banmao when used historically as technical terms) (in Chinese) in *Wang Li xiansheng jinian lunwenji 王力先生纪念论文集* (Hong Kong, 1987), pp. 21-7.
- "Ren yu daziran de qihe 人与大自然的契合" (Harmony of Man and Nature) (in Chinese), *The History of Science Newsletter* (Taipei, 1987) vol.6, pp.2-5.
- "Changshengbulaoshu de xiandan 长生不老术的仙丹" (The elixir of immortality) (in Chinese), *The History of Science Newsletter* (Taipei, 1987) vol.6, pp. 6-9.
- "Gunpowder", in *Catalogue: China, Heaven and Earth, 5000 Years of Inventions and Discoveries*, (Leuven, Belgium, 1988).
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