Chak Keung CHAN

Biography

Professor Chan obtained BSc in Chemical Engineering from the University of Texas at Austin in 1986 and PhD in Chemical Engineering from the California Institute of Technology in 1992. He is currently Chair Professor in School of Energy and Environment at City University of Hong Kong. He joined the Hong Kong University of Science and Technology (HKUST) as Assistant Professor in 1992 and rose to the rank of Professor in 2006. In 2010, he was appointed Founding Head of Division of Environment. He was Professor of Division of Environment and Professor of Chemical and Biomolecular Engineering at HKUST.
Professor Chan has over 30 years of research experience in air pollution and aerosol science. He specializes in aerosol water uptake and phase transformation, gas-aerosol interactions, the formation of secondary aerosols in the atmosphere, and laser spectroscopy of aerosols. Professor Chan received Haagen Smit Award of Atmospheric Environment in 2015, Second Prize of the State Natural Science Award in 2010, and First Prize of the Natural Science Award in 2007. He was the first winner of the Asian Young Aerosol Scientists Award. He was Science Advisor to Secretary of Environment, during his sabbatical at the HKSAR Environment Bureau in 2014. He was an Editor-in-Chief of *Atmospheric Environment* in 2008-2019.

Employment

School of Energy and Environment
City University of Hong Kong
28 Dec 2015 → 1 May 2023

School of Energy and Environment
City University of Hong Kong
28 Dec 2015 → 1 Sept 2022

Research outputs

Global Impact of Particulate Nitrate Photolysis on Fine Sulfate Aerosol
Liu, L., Liu, X., Zhang, R., Gen, M., Chan, C. K., Song, S. & Wang, X., 10 Sept 2024, In: Environmental Science & Technology Letters. 11, 9, p. 961-967

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Yang, J., Zhou, T., Lyu, Y., Go, B. R., Lam, J. C., Chan, C. K. & Nah, T., 1 Sept 2024, In: Environmental Sciences: Processes and Impacts. 26, 9, p. 1526-1542Scopus citations: 2

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Evaporation-Induced Transformations in Volatile Chemical Product-Derived Secondary Organic Aerosols: Browning Effects and Alterations in Oxidative Reactivity
Zhou, L., Liang, Z., Qin, Y. & Chan, C. K., 25 Jun 2024, In: Environmental Science & Technology. 58, 25, p. 11105-11117 13 p.

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Theoretical study on the aqueous phase oxidation of glyoxal
Wei, B., Zhang, R., Sit, P. H., He, M. & Chan, C. K., 1 Sept 2023, In: Environmental Science: Atmospheres. 3, 9, p. 1296-1305Scopus citations: 2

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Sulfate Formation by Photosensitization in Mixed Incense Burning–Sodium Chloride Particles: Effects of RH, Light Intensity, and Aerosol Aging
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Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning
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Decay Kinetics and Absorption Changes of Methoxyphenols and Nitrophenols during Nitrate-Mediated Aqueous Photochemical Oxidation at 254 and 313 nm
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The oxidative potential of fresh and aged elemental carbon-containing airborne particles: a review
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Li, J., Liu, Q., Li, Y., Liu, T., Huang, D., Zheng, J., Zhu, W., & 11 othersHu, M., Wu, Y., Lou, S., Hallquist, Å. M., Hallquist, M., Chan, C. K., Canonaco, F., Prévôt, A. S. H., Fung, J. C. H., Lau, A. K. H. & Yu, J. Z., 27 May 2019, In: Journal of Geophysical Research: Atmospheres. 124, 10, p. 5629-5649Scopus citations: 32

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Clegg, S. L., Brimblecombe, P., Liang, Z. & Chan, C. K., Sept 1997, In: Aerosol Science and Technology. 27, 3, p. 345-366Scopus citations: 46

Thermodynamic properties of aqueous aerosols to high supersaturation: I - Measurements of water activity of the system Na^{+}-$Cl^{-}$$NO_3^{-}$/$SO_4^{2-}$-$H_2O$ at ~ 298.15 K
Chan, C. K., Liang, Z., Zheng, J., Clegg, S. L. & Brimblecombe, P., Sept 1997, In: Aerosol Science and Technology. 27, 3 , p. 324-344Scopus citations: 58

Water activity of mixed organic and inorganic aerosols
Chan, C. K., Kwok, C. S. & Chow, A. H. L., Sept 1997, In: Journal of Aerosol Science. 28, SUPPL. 1Scopus citations: 2

Particulate matter exposures to commuters in Hong Kong
Zheng, J., Ma, H., Chan, C. K. & Cheng, L., Jul 1997, In: Particulate Science and Technology. 15, 3-4, p. 341-360Scopus citations: 2

A fast technique for measuring water activity of atmospheric aerosols
Liang, Z. & Chan, C. K., Mar 1997, In: Aerosol Science and Technology. 26, 3, p. 255-268Scopus citations: 31

Study of hygroscopic properties of aqueous mixtures of disodium fluorescein and sodium chloride using an electrodynamic balance
Chan, C. K., Kwok, C. S. & Chow, A. H. L., 1997, In: Pharmaceutical Research. 14, 9, p. 1171-1175Scopus citations: 18

Thermodynamic properties of aqueous $(NH_4)_2SO_4$ to high supersaturation as a function of temperature
Clegg, S. L., Ho, S. S., Chan, C. K. & Brimblecombe, P., 1995, In: Journal of Chemical and Engineering Data. 40, 5, p. 1079-1090Scopus citations: 62

Determination of water activity in ammonium sulfate and sulfuric acid mixtures using levitated single particles
Kim, Y. P., Pun, B. K., Chan, C. K., Flagan, R. C. & Seinfeld, J. H., 1994, In: Aerosol Science and Technology. 20, 3, p. 275-284Scopus citations: 37

Water activities of NH_4NO_3/$(NH_4)_2SO_4$ solutions
Chan, C. K., Flagan, R. C. & Seinfeld, J. H., Jun 1992, In: Atmospheric Environment Part A, General Topics. 26, 9, p. 1661-1673Scopus citations: 127

Resonance structures in elastic and raman scattering from microspheres
Chan, C. K., Flagan, R. C. & Seinfeld, J. H., 1 Feb 1991, In: Applied Optics. 30, 4, p. 459-467Scopus citations: 27

Activities

9th International Conference on Sustainable Solid Waste Management (CORFU 2022)
Sik Chun Johnny LO (Presenter), Christopher Yu Hang CHAO (Advisory Chair), Shauhrat Singh CHOPRA (Participant), Walid DAOUD (Participant), Shao-Yuan Leu (Participant), Zhi NING (Participant), Chi Yan TSO (Participant), Chak Keung CHAN (Participant), Shixing Tang (Participant), Hau Him LEE (Participant), Irum FIRDOUS (Participant), Bhaskar Jyoti DEKA (Participant) & Sze Ki Carol LIN (Participant)
15 Jun 2022 → 18 Jun 2022

Atmospheric Environment (Journal)
Chak K. Chan (Editor-in-Chief)
Oct 2008 → …

Prizes

Asian Young Aerosol Scientist Award
CHAN, Chak Keung (Recipient), 2005

Best *ES&T Letters* Paper of 2019
CHAN, Chak Keung (Recipient), GEN, Masao (Recipient) & ZHANG, Ruifeng (Recipient), 2020

First Prize of the Natural Science Award
CHAN, Chak Keung (Recipient), 2007

Haagen-Smit Award of Atmospheric Environment
CHAN, Chak Keung (Recipient), 2015

Second Prize of the State Natural Science Award
CHAN, Chak Keung (Recipient), 2010

Stanford's top 2% most highly cited scientists 2020
CHAN, Chak Keung (Recipient), 2020

Stanford's top 2% most highly cited scientists 2021
CHAN, Chak Keung (Recipient), Oct 2021

Stanford's top 2% most highly cited scientists 2022
CHAN, Chak Keung (Recipient), Nov 2022

Press/Media

Advanced bioaerosol project to eliminate Covid-19 and other pathogens secures HK$6.15m from Research Impact Fund
Chi Keung Alvin LAI, Chak Keung CHAN & Patrick Kwan Hon LEE
1/03/21
4 items of Media coverage

Berto and Chak interviewed by American Geophysical Union (AGU)
Chak Keung CHAN
13/08/15
1 Media contribution

Eighteen SEE faculty members ranked top 2% of the world's most highly cited scientists
Kyoung Jin Alicia AN, Chak Keung CHAN, Chung Leung Johnny CHAN, Guohua CHEN, Alex JEN, Chi Keung Alvin LAI, Mei Yee Kenneth LEUNG, Kwok Hi Michael LEUNG, Sze Ki Carol LIN, Chunhua LIU, Yun Hau NG, Jin SHANG, Chi Yan TSO, Wenxiong WANG, Wei WU, Hin Lap YIP, Lin ZHANG & Wen ZHOU
27/10/22
1 item of Media coverage

Four CityU projects awarded $20m from Green Tech Fund; highest among local institutions
Shu Hung Henry CHUNG, Alex JEN, Chak Keung CHAN & Yun Hau NG
25/01/22
1 item of Media coverage

Four CityU Projects Awarded HK$20 Million from Green Tech Fund
Shu Hung Henry CHUNG, Chak Keung CHAN, Alex JEN & Yun Hau NG
10/02/22
1 item of Media coverage

New sulfate formation pathway provides more accurate haze prediction
Chak Keung CHAN, Masao GEN & Ruifeng ZHANG
13/07/20 → 14/07/20
3 items of Media coverage

Revealing the new formation mechanism of haze pollutants
Chak Keung CHAN
24/06/20
1 item of Media coverage

Twenty-Six SEE Faculty Members ranked Top 2% of the World's Most Highly Cited Scientists
Fatwa Firdaus ABDI, Kyoung Jin Alicia AN, Chak Keung CHAN, Chung Leung Johnny CHAN, Guohua CHEN, Shauhrat Singh CHOPRA, Liang DONG, Alex JEN, Chi Keung Alvin LAI, Mei Yee Kenneth LEUNG, Kwok Hi Michael LEUNG, Sze Ki Carol LIN, Chunhua LIU, Yun Hau NG, Jin SHANG, Chi Yan TSO, Jian WANG, Wenxiong WANG, Xue WANG, Wei WU, Charles XU, Yau Wai Denis YU, Zhiguo YUAN, Hin Lap YIP, Lin ZHANG & Wen ZHOU
13/10/23
1 item of Media coverage

Grants

Projects

ECF: Application of Machine Learning Techniques in Predicting Primary and Secondary Organic Aerosols
CHAN, C. K.
1/03/21 → 26/10/22

GRF: Effects of Organic Phase States on the Amine-ammonium Exchange Reactions of Ammonium Sulfate Particles
CHAN, C. K., CHAN, M. N. & Yu, J.
1/12/14 → 15/11/18

ECF: Formation of secondary particulate matter (PM) from on-road vehicle emissions in Hong Kong
CHAN, C. K., CHAN, M. N., Guo, H., LAU, A. P. S. & NING, Z.
1/04/17 → 29/10/19

GRF: Heterogeneous Reactions of Monoethanolamine with Atmospheric Acidic Aerosol Particles
CHAN, C. K. & SIT, P.
1/01/19 → 19/12/22

ITF: Integrated System of Advanced Thermal Nano Technologies (TNT) for Energy - Efficient Air - Conditioning and Clean Indoor Air: Part 1 - Energy Efficiency
LEUNG, K. H. M., CHAN, C. K., CHONG, C. Y., FENG, S. P., FONG, K. F. S., LAI, A. K., LEE, P. K. H., LEUNG, D. Y., Li, Y., Ni, M., WANG, Z. & Yang, H.
1/11/17 → 31/10/21

ResCtrs: Low-Carbon and Climate Impact Research Centre (LCCIC)
CHAN, C. L. J., CHAN, C. K., CHOPRA, S. S., CHU, J., DONG, L., KIM, J., LAM, J., NAH, E. M. T., SHANG, J., WANG, X., WANG, S., WANG, J., YUAN, H. S., ZHANG, L., ZHOU, W. & ZHU, K.
1/03/08 → …

RIF: Rapid Detection and Synergetic Disinfection of Bioaerosols Using Far UVC and Negative Air Ions: Mechanistic and Field Studies
LAI, C. K. A., CHAN, C. K., CHAN, C., Gen, M., LEE, P. K. H., LI, I. W. S. & TONG, J.
30/06/21 → …

CRF: Reducing Transmission of Novel Coronavirus and Other Infectious Diseases using Food Waste-derived Medical Textiles via Electrospinning for Healthcare Apparel and Personal Protective Equipment
LIN, S. K. C., CHAN, C. K., CHAO, C. Y. H., CHOPRA, S. S., DAOUD, W., LEU, S. Y., NING, Z. & TSO, C. Y.
1/06/21 → …

DON_RMG: Scanning Electron Microscopy (SEM) for Energy and Environmental Researches - RMGS
CHAN, C. K.
1/03/20 → 1/05/23

SKL: State Key Laboratory of Marine Pollution (City University of Hong Kong) (SKLMP)
LEUNG, M. Y. K., CAI, W., CHAN, L. L., CHAN, C. K., CHENG, S. H., CHEUNG, S. G., CHEUNG, Y. H. R., HE, Y., KO, C. C. V., KONG, Y. C. R., KOT, B. C. W., KWOK, C. K., LAM, J., LEE, P. K. H., LEUNG, K. H. M., LO, P. K. P., LU, Z., LY, T. H., NAH, E. M. T., RUAN, Y. P., TAM, F. Y. N., WANG, W., WONG, C. Y. A., WU, J., YAN, M., YANG, M., YE, R., YU, K. N. P., ZENG, Z. & ZHANG, X.
9/04/10 → …

NSFC-SRI: 光敏反应和硝酸盐光解反应在硫酸盐和二次有机气溶胶生成过程中的影响
CHAN, C. K.
1/01/23 → …

NSFC-SRI: 无机硝酸盐对液相反应生成棕碳的影响
CHAN, C. K.
1/01/19 → 31/12/22

SZGov-SRI: 机动车尾气二次有机气溶胶生成潜势的隧道测试研究
CHAN, C. K.
8/07/16 → 31/07/19

NSFC-SRI: 硝酸盐光解反应在乙二醛水相氧化形成SOA中的影响
CHAN, C. K.
1/01/21 → …

NSFC-SRI: 餐饮油烟二次有机气溶胶生成的模拟研究
CHAN, C. K.
1/01/17 → 31/12/20