

CURRICULUM VITAE

Family name, First name: YANG, Xiao-Yu

*Fellow of Royal Society of Chemistry of UK, Fellow of Royal of Art of UK,
Chu-Tian Professor, Ph. D.*

Researcher unique identifier(s): ORCID 0000-0003-3454-3604

Date of birth: March 18th, 1976

URL for web site: <http://sklwut.whut.edu.cn/>

Email: xyyang@seas.harvard.edu; xyyang@whut.edu.cn



• EDUCATION

2006 B.S. Department of Chemistry (major), and Science for Humanities (minor), Jilin University, China
2007 Ph.D. Inorganic Chemistry, Department of Chemistry, Jilin University, China and Department of Chemistry, FUNDP (Facultés Universitaires Notre-Dame de la Paix, Membre de l'Académie universitaire 'Louvain'), Belgium (2005-2007, co-education in FUNDP)

• CURRENT POSITION(S)

2011– present Chu-Tian Full Professor, Wuhan University of Technology (WHUT), State Key Laboratory of Advanced Technology for Materials Synthesis and Processing (SKLATMSP), China
2019– present Associate (part-time), Harvard University, School of Engineering and Applied Sciences, U.S.A
2020– present Executive director (part-time), Marine Functional Material Laboratory, Pilot National Laboratory for Marine Science and Technology (NLMST, Qindao), China
2018– present Co-Professor (part-time), Southern Laboratory of Ocean Science and Engineering & School of Chemical Engineering and Technology Southern, Sun Yat-sen University (SYSU), China

• PREVIOUS POSITIONS

2007–2008 Postdoctoral Researcher, Department of Chemistry, FUNDP, Belgium
2008–2012 Chargé de Recherche, National Foundation of Scientific Research (FNRS), Belgium
2011–2019 Visiting Professor (part-time), Harvard University (2017-2019), Heinrich-Heine-Universität Dusseldorf (3 months in 2014, 2015), Germany; the University of Antwerp (1 month in 2015, 2011-2014 V-researcher), Belgium; l'Université du Littoral-Côte d'Opale (1 month in 2015), France

• FELLOWSHIPS AND AWARDS

2021 “Fellow of RSA” (The Royal Society of Art, RSA, UK);
2020 “Excellent Doctoral Dissertation Award of Chinese Society for Composite Materials” (Advisor Award, Chinese Society for Composite Materials (CSCM), China); “Outstanding Middle-aged Expert” (Hubei, China); “Fellow of IAAM (International Association of Advanced Materials)”; “Chartered Science Teacher of RSC” (The Royal Society of Chemistry, RSC, UK)
2019 “Fellow of Royal Society of Chemistry” (The Royal Society of Chemistry, RSC, UK); “Natural Science Award” (First class, 2, Hubei, China); “Jing-Bo National Outstanding Doctoral Thesis Award” (Advisor Award, Chemical Industry and Engineering Society of China (CIESC), China); “Sustainable Energy Award” of Asia Advanced Materials Congress; “Public Innovation Cup” (Golden cup, Zhuhai; First class, West-Guangdong; Silver cup, Guangdong; Guangdong China); “Jiang-Hai Talents” (Jiangsu, China); “Chartered Scientist” (National Science Council, UK); “CCEP-China City Environmental Protection Cup” (Advisor Award of Outstanding Award of Environmental Protection and Innovation, Wuhan, China)
2018 “Nano Award” of IAAM; “IAAM Medal” Award of IAAM; “Guest Honour” of Asia Advanced Materials Congress; “Annual-outstanding Stuff” in 2017-2018 of WHUT (China)
2017 “Chartered Chemist” (RSC, UK); “The Youth Talent” of support program of WHUT (China); “Young Scientist” Award of IAAM; “Best Oral Presentation” (European Advanced Materials Congress of IAAM); “National Energy Saving and Emission Reduction Award” for Excellent Undergraduate (3rd class, Advisor Award) (China); “Elect-outstanding Professor” in past-3-years of WHUT (China)
2016 “Outstanding Young Scholars” of Hubei (China)
2015 “Outstanding Mentor” in WHUT (China)
2014 “Outstanding B.S. Thesis” (Advisor Award) of Hubei (China)
2012 “Innovative Research Team” Contribution Award, All-China Federation of Returned Overseas (China)
2011 “New Century Excellent Talents” (The Ministry of Education, China)
2010 “Chu-Tian Chair Scholar” Honor (Hubei, China)
2005 “QiuShi Award” for Outstanding Postgraduate (HongKong)

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Current: 9 PhD students/11 Master Students/60 College Students, 2 Post-Doctors, 3 Associate Professors, China

• TEACHING ACTIVITIES

2021 –present Lecturer –Materials Structure and Objects, (30-50 graduate students), WHUT, China

2019 –present Lecturer –General Chemistry Engineering, (80-100 students), SYSU, Chin

2019 –present Lecturer –General Semiconductor Materials, (30-50 students), WHUT, China
 2016 –present Lecturer –General Nano-Chemistry, (80-120 students, theoretical and practical course), WHUT, China
 2012 –present Lecturer –General Nano-Bio Self-assembly, (80-120 students, T&P course), WHUT, China
 2012 –present Lecturer –General Living-Hybrid-Materials, (80-120 students, T&P course), WHUT, China
 2012 –present Lecturer –Synthesis and Processing of Inorg. Materials, (80-120 students, T&P course), WHUT, China

• **ORGANISATION AND PARTICIPATION OF SCIENTIFIC MEETINGS**

Over 30 invited lectures; 7 keynote lectures; 3 plenary lectures; 1 opening lecture

Organizing Chief in 5 of International Symposium; Conference Secretary-General in 1 of International Forum;
 Organizing Members in 5 of International Conferences; Section Chief in over 30 of International Conference.

• **INSTITUTIONAL RESPONSIBILITIES AND MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2011-present Member, the Management Committee of Colloidal Aspects of nanoscience for innovative processes and materials of European Cooperation in the field Of Scientific and Technical Research (E-COST)
 2011-present Chief Scientist, S&T Co. Lt. of E-Carbon(HUANTAN) and MN Materials(WEITE) in China
 2013-present Collaboration professor, JU International Cooperation Platform of National Institute of Arts&Sciences, USA
 2012-present Nominator, RSC Prizes and Awards (2012), IMMA Awards (2013), Small Young Innovator Award (2015), Reaxys PhD Prize (2014, 2015), and Nano Energy Award (2015);
 2009- 2013 Member and representative of the department of chemistry, the Committee of Promotion of Science of Faculty of Science of FUNDP, Belgium; Member of the Committee of Doctoral Accompaniment, FUNDP, Belgium
 2013-present Editor and Gest Editor-Chief, 5 of Journals such as <Nano-Structures & Nano-Objects> etc
 2019-2020 Director of Scientific research and international exchange, SCETS, SYSU
 2019-present Vice Director of Insitute of Advanced Materials (Sweden)

• **PROJECTS AND PROGRAM SUPPORTS**

Over 30 Projects Leaders of Chief Scientist (over 2.0M euro): China-European Key Inter-cooperation project of the Ministry of Science and Technology of China, National Key R&D Program of the Ministry of Science and Technology of China, 7 of Funding of National Natural Science Foundation of China, 3 of Funding of Ministry of Education of China, 2 of Funding of Science Foundation of Hubei of China, 1 of Funding of National Key Lab Foundation, 1 of Inter-Cooperation project of CSC of China and DAAD of Germany, 2 of Funding of National Scientific and Research Foundation of Belgium, 2 of Funding of The State Administration of Foreign Experts Affairs P.R. China, over 10 of University Funding (Inter-Education Program, Inter-Cooperation Program, Inter-Education Database etc.) and over 10 of Supervisor of National Post-D Foundation and University Funding of College students, Master students and Doctor students, and Industrial projects.

Chief Secretary and Main Participation in National key programs: Changjiang Group of Ministry of Education of China (0.8 M euro), National Key R&D Program of the Ministry of Science and Technology of China (4.8 M euro), The Recruitment Program of Global Experts of Chinas (2.6 M euro), The national "Double First-rate" strategic plan of China (Chief secretary, 2.6 M euro), The "111" programme of introducing talents of discipline to universities (1 M euro).

• **REPRESENTATIVE PUBLICATIONS**

1. Wu SM., Yang X-Y.*, Christoph Janiak, Confinement Effects in Zeolites-confined Noble-metals. *Angew. Chem. Int. Ed.*, 2019, 58, 12340-12354. (I.F. 12.959)
2. Chang GG., Ma XC., Zhang YX., Wang LY., Tian G., Liu JW., Wu J., Hu ZY., Yang X-Y.*, Chen B*., Construction of Hierarchical Metal–Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO₂ Conversion, *Adv. Mater.*, 2019, 31, 52, 1904969. (I.F. 27.398)
3. Geng W, Jiang N., Qing GY., Liu XL., Wang L., Busscher H. J., Tian G., Sun TL., Wang LY., Montelongo Y., Janiak C., Zhang G., Yang X-Y.*, and Su BL. * Click-Reaction for Reversible Encapsulation of Single Yeast Cells. *ACS Nano*, 2019, 13, 14459-14467. (I.F. 14.588)
4. Wu SM, Liu XL, Lian XL, Tian G, Janiak C, Zhang YX, Lu Y, Yu HZ, Hu J, Wei H, Zhao H, Chang GG, Van Tendeloo G, Wang LY, Yang X-Y.* and Su BL, Homojunction of Oxygen and Titanium Vacancies and its Interfacial n-p Effect. *Adv. Mater.*, 2018, 30, 201802173. (I.F. 27.398)
5. Yang X-Y.*, Chen LH.*, Li Y.*, Rooke J. C., Sanchez C., Su BL.*, Hierarchically Porous Materials: Synthesis Strategies and Structures Design. *Chem. Soc. Rev.*, 2017, 46(2): 481-558. (I.F. 42.846)
6. Yang X-Y.*, Tian G., Jiang N., Su BL.*, Immobilization technology: a sustainable solution for biofuel cell design. *Energy Environ. Sci.*, 2012, 5, 5540-5563. (I.F. 30.289)
7. Chen L., Li X., Tian G., Li Y., Rooke J., Zhu G., Qiu S., Yang X-Y.*, Su BL.*, Highly stable and reusable multimodal zeolite TS-1 based catalysts with a hierarchically interconnected three level micro-meso-macro pore structure. *Angew. Chem. Int. Ed.*, 2011, 50, 11156-11161. (I.F. 12.959)
8. Yang X-Y., Li Y., Van Tendeloo G., Xiao S-F., Su B-L.*, One-Pot Synthesis of Catalytically Stable and Active Nanoreactors: Encapsulation of Size-Controlled Nanoparticles within a Hierarchically Macroporous Core@Ordered Mesoporous Shell System. *Adv. Mater.*, 2009, 21, 1368-1372. (I.F. 27.398)

9. **Yang X-Y.**, Li Z-Q., Klein-Hofman A., Tian G., Feng Y-F., Ding Y., Su D-S., Xiao F-S.*, “Fish-in-Net” Encapsulation of Enzymes in Macroporous Cages as Stable, Reusable, and Active Heterogeneous Biocatalysts. *Adv. Mater.*, 2006, 18, 410-414. (I.F. 27.398)
10. **Yang X-Y.**, Vantomme A., Lemaire A., Xiao F-S., Su B-L.*, A Highly Ordered Mesoporous Alumino silicate, CMI-10, with a Si/Al Ratio of One. *Adv. Mater.*, 2006, 18, 2117-2122. (I.F. 27.398)

• **SCIENTIFIC CONTRIBUTIONS & HIGHLIGHTS**

112 SCI papers, 1 book, 7 book chapters, 41 Chinese patents, 1 USA patent
 Average IF of SCI paper: ~9.0; Citation: ~ 5835; H-index: 39; i-10-index: 78 (Google scholar)
 Over 10 Cover Paper; over 10 Highlighted Paper; 7 ESI Highly Cited Paper; 2 Hot Paper in 0.1% and Top 100 paper in Catalysis, over 20 Media Reports/Highlights

Journals	Sum	I.F.	Highlights
Chem. Soc. Rev.	2	42.8	(Leading Journal of Chemistry) 2 “ Highly Cited Paper ”, “ Top 100 Paper in Catalysis ”, 2 of corresponding author
Adv. Mater.	6	27.2	(Leading Journal of Materials) 1 “ AA Paper ” (“Advances in Advance” paper) recommended by <Adv. Mater.>; As “ Trends of Chemistry in 2006 ” reported by <Nachrichtenaus der Chemie>; As “ Cover Paper ”, “ Cover Suggestion ”, “ Hot Paper ” and “ Cover Recommendation ”; 3 of the first authors and 2 of the corresponding author
Angew. Chem. Int. Ed.	3	12.9	(Leading Journal of Chemistry) 2 of corresponding author and 1 of the fifth author
ACS Nano	1	14.5	(Leading Journal of nanoscience and nanotechnology)
Nat. Sci. Rev.	1	16.6	(Leading Journal of nanoscience and nanotechnology)
Nano Lett.	1	11.2	(Leading Journal of nanoscience and nanotechnology)
Chem. Sci.	2	9.3	(Leading Journal of Chemistry) 1 of “ Cover Paper ”
Nano Energy	3	16.602	(Leading Journal of Energy) 1 of “ Cover Paper ” in <Nano Energy >; 1 of “ Highly Cited Paper ”
Chem. Commun.	8	5.9	1 of “ Hot Paper ” in <Chem. Commun.> and “ Heart Cut Paper ” highlighted by <J. Am. Chem. Soc.>; 1 of “ Feature Article ” paper in <Chem. Commun.>; 3 of “ Cover Paper ”
Small	3	11.45	1 of “ Frontspecies Paper ” and 1 of “ Cover Paper ” in <Small>.
Appl. Catal. B-Environ.	2	16.6	(Leading Journal of nanoscience and nanotechnology)
J. Mater.Chem. A/ Chem. Mater./ACS Appl. Mater. Interface/ChemSusChem/Chem. Euro. J./J. Catal./Crit. Rev. Solid State/J. Chem. Mater./Nanoscale/	48	5.0-12	1 of “ Inside-Cover Paper ”; 1 of “ Back-Cover Paper ” in <Nanoscale>; “ Frontspecies Paper ” in <ChemCatChem>; 1 of “ Back Inside-Cover Paper ” and “ Highly Cited Paper ” in <J. Mater. Chem.>; 1 of “ Cover Paper ” in <Critical Reviews in Solid State and Materials Sciences>; 1 of invited paper in special issue of <ChemSusChem>; 1 invited paper in start issue of <J. Energy. Chem.>; 1 of “ Cover Paper ” in <ACS Appl. Mater. Interface>
J. Phys. Chem. B et. al.	29	3.0-5.0	1 of “ Most Downloaded Article ”, 2 of invited paper in special issues
Reviews and Books	Sum	I. F.	Remarks (counted in journals)
Chem. Soc. Rev.	2	42.84	first & corresponding author
Energy Environ. Sci.	1	30.28	first & corresponding author
Angew. Chem. Int. Ed.	1	12.95	corresponding author
Chem. Commun.	1	5.99	first author
Nanoscale	2	6.89	corresponding author
Pure Appl. Chem.	1	1.91	first author
New J. Chem.	1	3.28	corresponding author
Hierarchically Structured Porous Materials (Wiley-VCH)			co-chief editor & corresponding author, and 5 chapters
Inorganic Synthesis and Preparative Chemistry			1 chapter (Text-book, the first author)