Taimin Yang

Curriculum Vitae
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Taimin
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Briefing about me

- Extensive hands-on experiences in programming in python and R
- Experienced researcher in electron crystallography and transmission electron microscopy
- Experienced practitioner in data analytics, business intelligence and advance analytics, including machine learning and deep learning

Education

2015-2019 **PhD of Inorganic Chemistry** — Stockholm University
Stockholm, Sweden

2012-2015 **Master of Material Science** — Central South University
Changsha, China

2008-2012 **Bachelor of Material Science and Engineering** — Central South University
Changsha, China

Working Experience

2019-2020 **Business Analyst in Regulatory Analytics** — Nordea Bank Abp, Stockholm, Sweden

- Accounting and tax process automation using VBA and python
- Extract and analyze risk and treasury reports using SQL
- Produce regulatory reports in an agile team using agile methodology
- Developing cloud-based business intelligence and data warehouse solutions to enhance financial data delivery

2015-2019 **Research Assistant in Structure Chemistry** — Stockholm University, Stockholm, Sweden

- Designed and built machine learning and deep learning data processing pipelines for collecting, storing and analyzing experimental datasets using python, QT, MySQL and pandas
- Designed and executed the optimization of atomic models from images using machine learning methods
- Designed and developed algorithms for processing 2D digital images to reconstruct 3D models
- Perform statistical analysis with global and convex optimization methods

2012-2015 **Research Assistant in Material Physics** — Central South University, Changsha, China

- Designed an experiment logging system using QT, C++ and MySQL, which can record all the experiment data for the lab

Publications

1. Xu, H, H Lebrette, T Yang, V Srinivas, S Hovmöller, M Högbom, and X Zou (2018). A rare lysozyme crystal form solved using highly redundant multiple electron diffraction datasets from micron-sized crystals. *Structure* (8).
2. Wang, B, T Rhauderwiek, A Inge, H Xu, T Yang, Z Huang, N Stock, and X Zou (2018). A Porous Cobalt Tetraphosphonate Metal–Organic Framework: Accurate Structure and Guest Molecule Location Determined by Continuous-Rotation Electron Diffraction. *Chemistry–A European Journal* (7).
3. Wang, Y, T Yang, H Xu, X Zou, and W Wan (2018). On the quality of the continuous rotation electron diffraction data for accurate atomic structure determination of inorganic compounds. *Journal of Applied Crystallography* (12).
4. Lee, H, J Shin, W Choi, H Choi, T Yang, X Zou, and S Hong (2018). PST-29: a missing member of the RHO family of embedded isoreticular zeolites. *Chemistry of Materials* (10).
5. Seo, S, T Yang, J Shin, D Jo, X Zou, and S Hong (2018). Two aluminophosphate molecular sieves built from pairs of enantiomeric structural building units. *Angewandte Chemie* (3).

6. Lin, J, T Yang, C Lin, and J Sun (2018). Hierarchical MFI zeolite synthesized via regulating the kinetic of dissolution-recrystallization and their catalytic properties. *Catalysis Communications* (2).
7. Lin, J, M Cichocka, F Peng, T Yang, and J Sun (2018). Hierarchical Shell-Like ZSM-5 with Tunable Porosity Synthesized by using a Dissolution–Recrystallization Approach. *Chemistry–A European Journal* (6).
8. Cheung, O, P Zhang, S Frykstrand, H Zheng, T Yang, M Sommariva, X Zou, and … (2016). Nanostructure and pore size control of template-free synthesised mesoporous magnesium carbonate. *RSC advances* (14).
9. Yang, T, Q Wei, Y Qi, Y Wang, Y Xie, J Luo, and Z Yu (2015). Microstructure evolution of thermal spray WC–Co interlayer during hot filament chemical vapor deposition of diamond thin films. *Journal of Alloys and Compounds* (15).
10. Yang, T, Q Wei, Y Qi, and Z Yu (2015). The diffusion behavior of carbon in sputtered tungsten film and sintered tungsten block and its effect on diamond nucleation and growth. *Diamond and Related Materials* (13).
11. Wei, Q, T Yang, K Zhou, L Ma, P Zheng, J Li, D Zhang, Z Li, and Z Yu (2013). Effect of sputtered Mo interlayers on Si (100) substrates for the deposition of diamond film by hot filament chemical vapor deposition. *Surface and Coatings Technology* (5).
12. Wang, S, X Huang, Y He, H Huang, Y Wu, L Hou, X Liu, T Yang, J Zou, and … (2012). Synthesis, growth mechanism and thermal stability of copper nanoparticles encapsulated by multi-layer graphene. *Carbon* (11).

Awards and Grants

2019	**Outstanding Self-financed Chinese Oversea Scholar ($5000)**	Ministry of Education of China
2016	**Knut & Alice Wallenbergs Travelling Grant ($1500)**	Stockholm University
2015	**HaoMei Cooperation Scholarship ($800)**	Central South University
2014	**First-Class Graduate Scholarship ($1500)**	Central South University
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2012	**First-Class Graduate Scholarship ($1500)**	Central South University
2012	**Best Undergraduate Thesis**	Central South University
2011	**The First Rank Academic Scholarship ($300)**	Central South University
2010	**The First Rank Academic Scholarship ($300)**	Central South University
2009	**Undergraduate Student Research Grant ($280)**	Central South University