

Curriculum Vitae

Hong Young Chang, Ph.D.

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Associate Professor (09/2025 --- Current)

Department of Computer, Mathematical & Physical Sciences (CMPS)

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Education

Ph.D. Inorganic Solid State Chemistry, Aug. 2009, University of Houston, Houston, USA

M.S. Organometallics and Organic Chemistry, Aug. 1997, Yonsei University, Seoul, Korea

Career

Associate Professor (09/2025 ---Current), Sul Ross State University, Alpine, TX

Assistant Professor (01/2020 ---08/2025), Sul Ross State University, Alpine, TX

Instructor (01/2019 --- 05/2019), University of Houston, Victoria, TX

Instructor (01/2016 ---12/2019), Houston Community College, Houston, TX

Postdoctoral Scholar (09/2012 --- 09/2014), Washington State University, Pullman, WA

Postdoctoral Scholar (05/2010 --- 04/2011), The University of Texas at Austin, Austin, TX

Postdoctoral Scholar (09/2009 --- 04/2010), University of Houston, Houston, TX

Teaching Performance

A. Teaching in SRSU Undergraduate Chemistry Classes

- CHEM 4311: Readings and Research on Biochemistry
- CHEM 4300: Welch Chemistry Research

- CHEM 4300: ACS Chemistry Research
- CHEM 4300: McNair Chemistry Research
- CHEM 4301: Biochemistry I
- SCER 3409: Foundations of Elementary Science II (Lecture and Lab)
- CHEM 2423: Organic Chemistry I (Lecture and Lab)
- CHEM 2424: Organic Chemistry II (Lecture and Lab)
- CHEM 2402: Inorganic Chemistry I (Lecture and Lab)
- CHEM 2401: Analytical Chemistry I (Lecture and Lab)
- CHEM 1311: General Chemistry I
- CHEM 1312: General Chemistry II
- CHEM 1111: General Chemistry I Lab
- CHEM 1112: General Chemistry II Lab

Research Performance [Hong Young Chang - Google Scholar](#)

A. Publications in Peer-Reviewed Articles

- **H. Y. Chang**, S. W. Kim, “Crystal Structure of New Barium Lithium Manganese Fluorides: $\text{Ba}_{14}\text{Li}_{1.87}\text{Mn}_{14.13}\text{F}_{68}$ with a Jarlite-related Structure”, **Z. Kristallogr. NCS**, **2025**, *240*(2). 279

[Crystal structure of new barium lithium manganese fluorid...](#)

- S. W. Kim, **H. Y. Chang**, Crystal Structure of New Barium Manganese Fluorides diHydrates, $\text{Ba}_{10}\text{Mn}_2\text{F}_{25}\cdot 2\text{H}_2\text{O}$ ”, **Z. Kristallogr. NCS**, **2025**, *240*(1). 49

[Crystal structure of new barium manganese fluorides dihyd...](#)

- M. S. Jun, H. Jo, M. H. Choi, K. M. Ok, **H. Y. Chang**, S. W. Kim “Polymorphisms in $M^{2+}\text{AlF}_5(\text{H}_2\text{O})_7$ ($M^{2+} = \text{Fe}^{2+}$, Co^{2+} , or Ni^{2+}): Syntheses, Crystal Structures, and Characterization of New Mixed Metal Fluoride Hydrates” **Crystals** **2024**, *14*(2), 197

<https://doi.org/10.3390/cryst14020197>

- S. W. Kim, H. Y. Chang “Structural Analysis, Characterization, and First-Principles Calculations of Bismuth Tellurium Oxides, $\text{Bi}_6\text{Te}_2\text{O}_{15}$ ” ***Crystals* 2024**, 14(1), 23
<https://doi.org/10.3390/cryst14010023>

B. Poster & Oral Presentation

- S. W. Kim, H. Y. Chang “Synthesis, Structure, and Characterization of Noncentrosymmetric Lead Iron Fluoride, $\text{Pb}_{2-x}\text{Fe}_3\text{F}_{12} \cdot 3\text{H}_2\text{O}$ ($x = 0$ and 0.5)” **ACMM III** (3rd Asian Conference on Molecular Magnetism), Hanwha Resort Haeundae, Busan, Republic of Korea, **September. 1st to 4th (2024)**
- D. Clifton, Z. Frazier, H. Y. Chang “Investigation of Bond Valence Sum (BVS), Local Dipole Moment (LDM), Bond Stability Index (BSI), Global Instability Index (GII): Cs_2MoO_4 and Tl_2MoO_4 ” **TAS 2024 Annual Meeting**, The University of Texas Permian Basin, Odessa, Texas, USA, **March 1st to 2nd (2024)**
- C. Wright, H. Y. Chang “Thermal and Structural Analysis on *Strandberg* type-Polyoxometalates (POMs): $\text{Rb}_3\text{Se}_2\text{Mo}_5\text{O}_{20}(\text{OH}) \cdot 2\text{H}_2\text{O}$ and $\alpha/\beta\text{-Rb}_4\text{Se}_2\text{Mo}_5\text{O}_{21} \cdot 2\text{H}_2\text{O}$ ” **TAS 2024 Annual Meeting**, The University of Texas Permian Basin, Odessa, Texas, USA, **March 1st to 2nd (2024)**
- H. Y. Chang, D. Derek, “Asymmetric and Chiral Properties on Strandberg type-Polyoxometalates (POMs): Synthesis, Characterization, and Electronic Structure Calculation” **SWRM** (Southwest Regional Meeting of the American Chemical Society), AT&T Conference Center, Austin, Texas, USA, **October 31st to November 3rd (2021)**