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I. Education and Experience

Tianlong Deng obtained his BSc, MSc. and Ph.D. from Chengdu University of Technology in 1990, 1993 and 1999, respectively. He worked as postdoctoral fellows in Laurentian University of Canada in 2002 and Chengdu University of Traditional Chinese Medicine in 2003. He obtained academic awards and honors of a Specially-appointed Professor of Tianjin Goverment in 2009, the Academic Leader of Tianjin Municipal Universities in 2012, a prestigious membership of "A Hundred Talents Plan" of the Chinese Academy of Sciecnes in 2005 and so on. His research fields include phase equilibria and phase diagrams of salt-water systems, comprehensive utilizations of salt lake resources, thermodynamics of solution chemistry and experimental geochemistry. He received the financial supports from the State Key Program of NNSFC (Grant 20836009), the NNSFC (Grants 21773170, U1407113, 21276194, 40773045, 40573044 and 40103009), and so on. Now, he is the editorial boards of four international journals and 4 Chinese journals. He had published more than 250 peer-reviewed papers in the international journals.

II. Five Representative Publications

1. Tianlong Deng, Shiqiang Wang, Yafei Guo. 2017. **Metastable Phase Equilibria and Phase Diagrams for the salt lake brine system in Qaidam Basin**, Beijing: Science Press, pp.310, ISBN 978-7-03-049008-7.

2. Long Li, Yafei Guo, Tianlong Deng, **Chapter 5: Phase Equilibria and Phase Separation of the Aqueous Solution Systems Containing Lithium Ion**. Book Chapter in: Desalination, Croatia: InTech Publisher, pp. 656, ISBN 978-953-51-5278-1.

3. Tianlong Deng, Huan Zhou, Xia Chen. 2013. **Salt-water System Phase Diagram and Application**, Beijing: Chinese Chemical Industry Press, pp.326, ISBN 978-7122-17531-1.

4. Tianlong Deng, Chapter 16. Stable and Metastable Phase Equilibria in the Salt-Water Systems, pp.399-430, In: Yitzhak Mastai ed., 2012, **Advance in Crystallization Processes**, Croatia: InTech Publisher, pp. 656, ISBN 979-953-307-878-5.

5. Long Li, Yafei Guo, Sisi Zhang, Mengmeng Shen, Tianlong Deng. Phase equilibria in the aqueous ternary systems (LiCl + $LiBO_2$ + H_2O) and (Li_2SO_4 + $LiBO_2$ + H_2O) at 323.15 K and 0.1 MPa. ***Fluid Phase Equilibria***, 2017, 436(1): 13-19.

6. Yafei Guo, Long Li, Lina Cao, Xiaoping Yu, Shiqiang Wang, Tianlong Deng. Solubilities, densities and refractive indices in the aqueous quaternary system of lithium sulfate, lithium metaborate and lithium carbonate at 288.15, 298.15, 308.15 K and 0.1 MPa. ***Journal of Chemical and Engineering Data,*** 2017, 62(1): 508−515.

III. Candidate Statement

I participated the 6th ISSLR in 1994, when I was a “young boy”. Since 1994, I have been working in the feilds of chemistry and cheimcal engineering on phase equilibria of salt lake brine systems and the comprehensive utilizations of salt lake resources. I will strengthen the interacting with members of our ISSLR society and look forward to accelerating the development of ISSLR, especially in the fields of chemistry and chemical engineering. I am ready to serve our ISSLR members in the future.