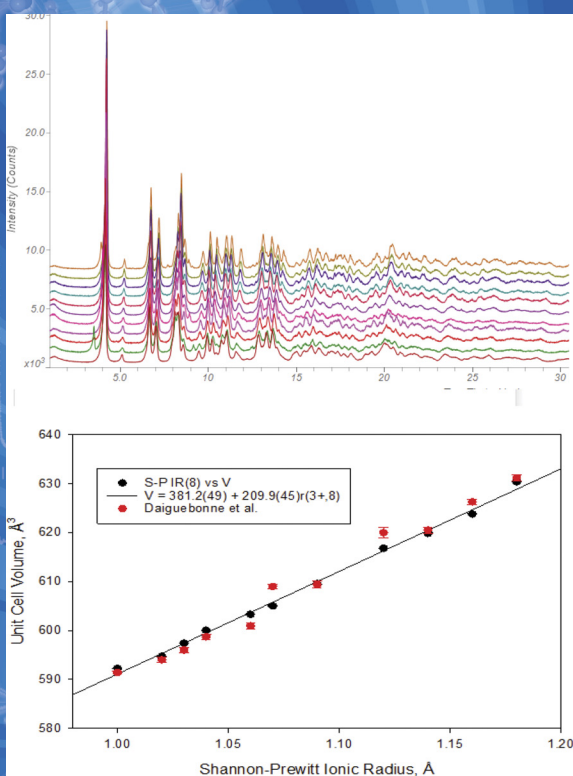
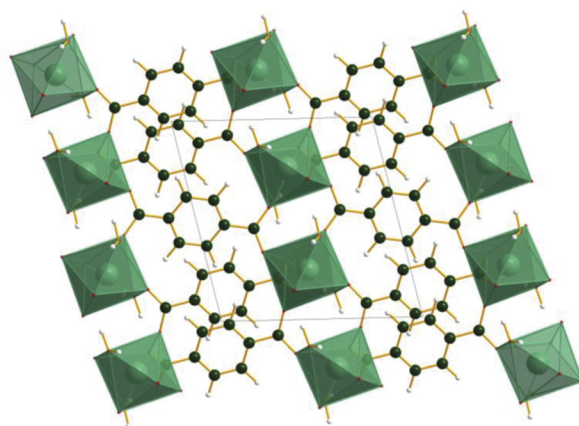


# Powder Diffraction PDJ

*Journal of Materials Characterization*



XRD Patterns, Crystal Structure and Unit Cell Volumes of  $R_2(C_8H_4O_4)_3(H_2O)_4$ , R=La-Er



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### **Aims & Scope**

ICDD's quarterly, and special topical issue, international journal, *Powder Diffraction*, focuses on materials characterization employing X-ray powder diffraction and related techniques. With feature articles covering a wide range of applications, from mineral analysis to epitaxial growth of thin films to advances in application software and hardware, this journal offers a wide range of practical applications. ICDD, in collaboration with the Denver X-ray Conference Organizing Committee, has increased services for the subscribers of Powder Diffraction and authors of Advances in X-ray Analysis. Beginning in 2006, ICDD offered a copy of the previous year's edition of AXA to Powder Diffraction institutional subscribers who receive both print and on-line versions. This effectively doubles the number of articles annually available to Powder Diffraction subscribers and significantly increases the circulation for the authors in Advances in X-ray Analysis.

### **Subject coverage includes:**

- Techniques and procedures in X-ray powder diffractometry
- Advances in instrumentation
- Study of materials including organic materials, minerals, metals and thin film superconductors
- Publication of powder data on new materials

### **International Centre for Diffraction Data**

The International Centre for Diffraction Data (ICDD®) is a non-profit scientific organization dedicated to collecting, editing, publishing, and distributing powder diffraction data for the identification of materials. The membership of the ICDD consists of worldwide representation from academe, government, and industry.

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On the Cover: The cover figure shows the XRD patterns, crystal structure and unit cell volumes of  $R_2(C_8H_4O_4)_3(H_2O)_4$ , R = La–Er, compounds isolated from efforts to synthesize lanthanide metal centered Metal Organic Frameworks. The figures are from the manuscript in this Issue of *Powder Diffraction* titled “Crystal structures of lanthanide terephthalate tetrahydrates, R = La–Er.” by E. L. Markun and J.A. Kaduk.