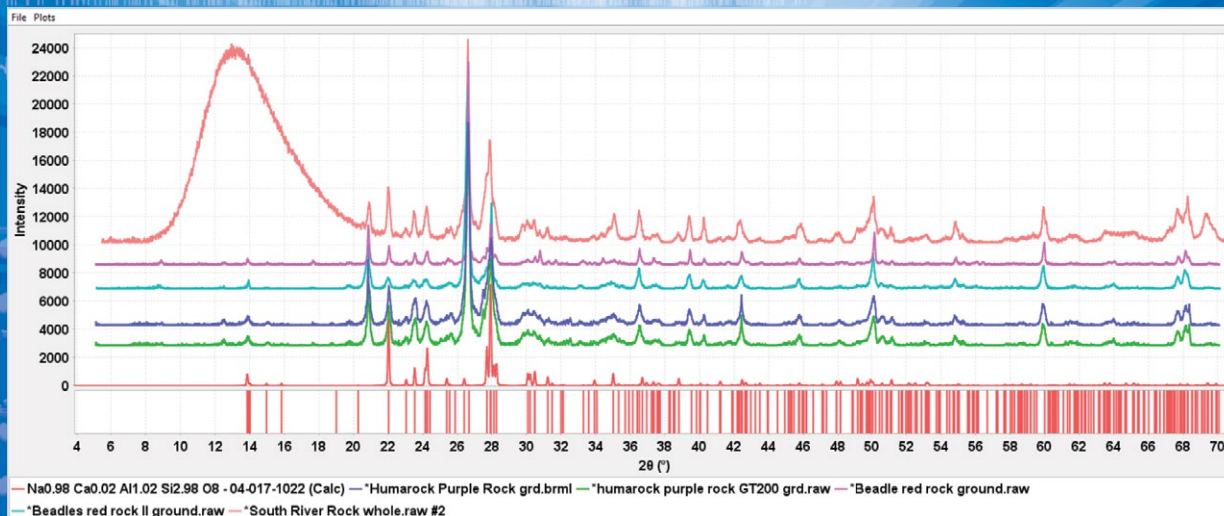
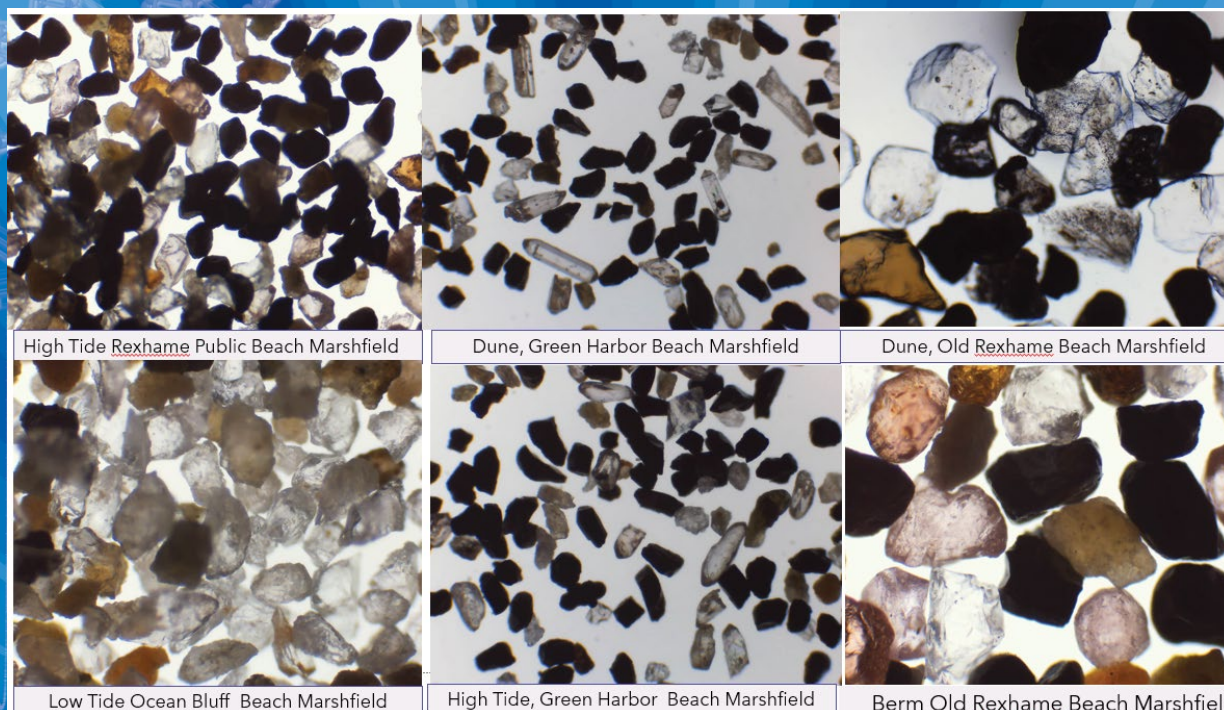


Powder Diffraction PDJ

Journal of Materials Characterization



Volume 40 / Number 02 / June 2025



CAMBRIDGE
UNIVERSITY PRESS

Powder Diffraction

Journal of Materials Characterization

Journal of the International Centre for Diffraction Data

<https://www.cambridge.org/core/journals/powder-diffraction>

Volume 40, Issues 1-4

eISSN: 1945-7413; ISSN: 0885-7156

Editor-in-Chief

Camden Hubbard, Applied Diffraction Services, USA

Managing Editor

Nicole Ernst Boris, International Centre for Diffraction Data, USA

Editors for New Diffraction Data

Stacy Gates-Rector, International Centre for Diffraction Data, USA

Soorya Kabekkodu, International Centre for Diffraction Data, USA

Associate Editor for New Diffraction Data

Frank Rotella, Argonne National Laboratory (Retired), USA

Editors

Xiaolong Chen, Institute of Physics, Chinese Academy of Sciences, China

José Miguel Delgado, Universidad de Los Andes, Venezuela

Norberto Masciocchi, Università dell'Insubria, Italy

Editors for Crystallography Education

James Kaduk, Poly Crystallography Inc., USA

Brian H. Toby, Argonne National Laboratory, USA

International Reports Editor

Winnie Wong-Ng, National Institute of Standards and Technology, USA

Calendar of Meetings and Workshops Editor

Gang Wang, Chinese Academy of Sciences, China

Advisory Board

Evgeny Antipov, Moscow State University, Russian Federation

Xiaolong Chen, Chinese Academy of Sciences, China

Jose Miguel Delgado, University de Los Andes, Venezuela

Steve Hillier, The James Hutton Institute, UK

Takashi Ida, Nagoya Institute of Technology, Japan

Matteo Leoni, University of Trento, Italy

Vanessa Peterson, Australian Nuclear Science and Technology Organisation, Australia

Mark Rodriguez, Sandia National Labs, USA

T.N. Guru Row, Indian Institute of Science, India

Allison Keene, Cambridge University Press, USA

Information about editors and editorial board members correct as of 1st January 2022. For the latest information please see <https://www.cambridge.org/core/journals/powder-diffraction/information/editorial-board>

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 epitactic 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.

© International Centre for Diffraction Data

Published by Cambridge University Press.



TECHNICAL ARTICLE

- Takashi Ida Deconvolutional treatment about sample transparency aberration interfered by opaque and translucent sample holders in Bragg–Brentano geometry 105
doi:10.1017/S088571562500003X

CRYSTALLOGRAPHY EDUCATION ARTICLE

- Timothy Goss Fawcett The secrets of the sand – Mineralogy of coastal sands and dunes in Marshfield, MA, USA and comparisons to other beach sands 114
doi:10.1017/S0885715625000041

NEW DIFFRACTION DATA

- James A. Kaduk, Anja Dosen, and Thomas N. Blanton Crystal structure of flumethasone, $C_{22}H_{28}F_2O_5$ 128
doi:10.1017/S0885715625000120
- James A. Kaduk, Anja Dosen, and Thomas N. Blanton Crystal structure of etrasimod, $C_{26}H_{26}F_3NO_3$ 134
doi:10.1017/S0885715625000107
- James A. Kaduk, Anja Dosen, and Thomas N. Blanton Crystal structure of diroximel fumarate, $C_{11}H_{13}NO_6$ 140
doi:10.1017/S0885715625000119
- Robert A. Toro, Analio J. Dugarte-Dugarte, José A. Henao, Graciela Díaz de Delgado, and José M. Delgado Room-temperature X-ray powder diffraction data for bosentan monohydrate 146
doi:10.1017/S0885715625000065
- James A. Kaduk, Anja Dosen, and Thomas Blanton Crystal structure of sparsentan, $C_{32}H_{40}N_4O_5S$ 157
doi:10.1017/S0885715625000132
- James A. Kaduk, Anja Dosen, and Tom N. Blanton Crystal structure of trametinib dimethyl sulfoxide, $C_{26}H_{23}FIN_5O_4(C_2H_6OS)$ 162
doi:10.1017/S0885715625000168
- James A. Kaduk, Anja Dosen, and Tom N. Blanton Crystal structure of aprocitentan Form A, $C_{16}H_{14}Br_2N_6O_4S$ 168
doi:10.1017/S088571562500017X

CALENDARS OF MEETINGS, SHORT COURSES AND WORKSHOPS

- Gang Wang Calendar of Forthcoming Meetings 175
doi:10.1017/S0885715625000144
- Gang Wang Calendar of Short Courses and Workshops 177
doi:10.1017/S0885715625000156

On the Cover: Magnified sand grains of various colored sands, including garnet-almandine (Figure 14) and PXRD images of sands and rocks contained in red albite (Figure 16) - frequently identified as a cause of pink sands on the North Shore of Boston highlighted in the article: The secrets of the sand – Mineralogy of coastal sands and dunes in Marshfield, MA, USA and comparisons to other beach sands, courtesy of Timothy Goss Fawcett.