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Anywhere Article は、PDFの長所をそのまま残しながら、論文読者に役立つ新しい機能の追加を図りました。

読みやすさ・機能性・モバイル対応の面で、これまでの電子ジャーナルとはー線を画した新しいフォーマットを実現しています。


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Information
References
Figures

Journal of the American Ceramic Society

Rapid Communications

A Special Configuration of Lead Zirconate Titanate Multilayer Stack with Superior Electrical and Optical Properties

Ting Zhang, Gu-Jin Hu, Hai-Jun Bu, Rui Cong, Xin Chen, Guo-Lin Yu, Xiang-Jian Meng, Jun-Hao Chu, Ning Dai

Volume 94, Issue 9
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Pages 2761–2763

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DOI: 10.1111/j.1551-2916.2011.04701.x
Citing literature
Funding information

Authors to whom any correspondence should be addressed. e-mails: hugj@mail.sitp.ac.cn and ndai@mail.sitp.ac.cn

Abstract

A unique configuration of $PbZr_{0.4}Ti_{0.6}O_3$ multilayer stack was designed and grown on F-doped tin oxide thin film by spin casting and annealing process. The multilayer system exhibits a broad reflection band with peak reflectivity over 95% and band width no < 40 nm, a dielectric constant of 520 and dielectric tunability of ~49% at 1 MHz, a remanent polarization of 46.8 μC/cm², and a polarization loss of < 5% after 10^9 polarization switching cycles, rendering excellent performance as 1D photonic crystals and as ferroelectric and dielectric media. This material structure may find application in photonic band-gap engineering, microwave tunable devices, and integrated optoelectronics.

Abstract
I. Introduction
II. Experimental Procedure
III. Results and Discussion
IV. Conclusions
Acknowledgments
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Anywhere Article の注目ポイント

① 読みやすさ

② 機能性

③ モバイル対応

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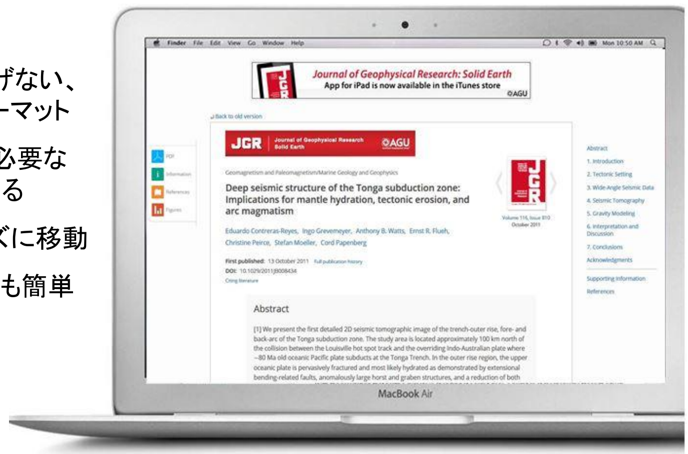

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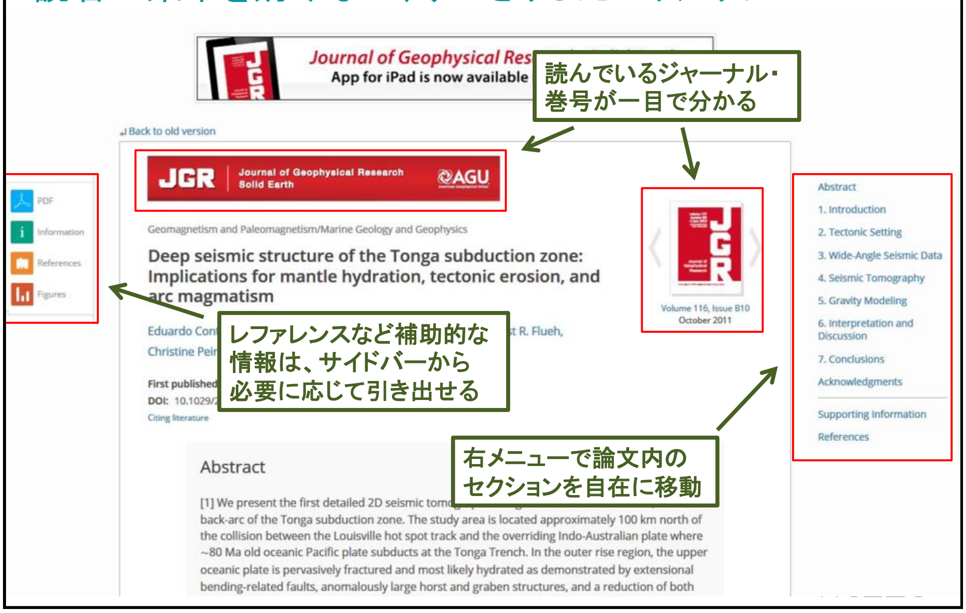


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Information
References
Figures
Geomagnetism and Paleomagnetism/Marine Geology and Geophysics
Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism
Eduardo Contreras-Reyes, Ingo Grevemeyer, Anthony B. Watts, Ernst R. Flueh, Christine Peirce, Stefan Moeller, Cord Papenberg
First published: 13 October 2011 Full publication history
DOI: 10.1029/2011JB008434
Citing literature
Volume 116, Issue B10
October 2011
Abstract
1. Introduction
2. Tectonic Setting
3. Wide-Angle Seismic Data
4. Seismic Tomography
5. Gravity Modeling
6. Interpretation and Discussion
7. Conclusions
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Supporting Information
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Eduardo Contreras-Reyes, Ingo Grevemeyer, Anthony B. Watts, Ernst R. Flueh,
First published: 13 October 2011
DOI: 10.1029/2011JB008434
Volume 116, Issue B10
October 2011
Abstract
[1] We present the first detailed 2D seismic tomographic image of the trench-outer rise, fore- and back-arc of the Tonga subduction zone. The study area is located approximately 100 km north of the collision between the Louisville hot spot track and the overriding Indo-Australian plate where ~80 Ma old oceanic Pacific plate subducts at the Tonga Trench. In the outer rise region, the upper oceanic plate is pervasively fractured and most likely hydrated as demonstrated by extensional bending-related faults, anomalously large horst and graben structures, and a reduction of both

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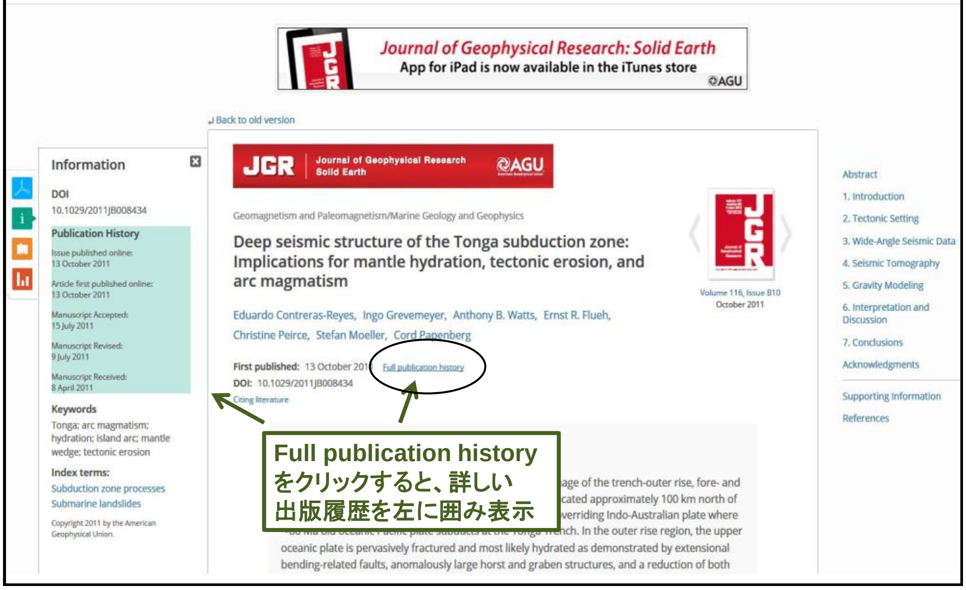

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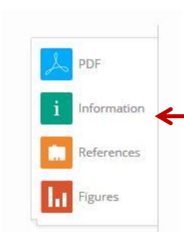

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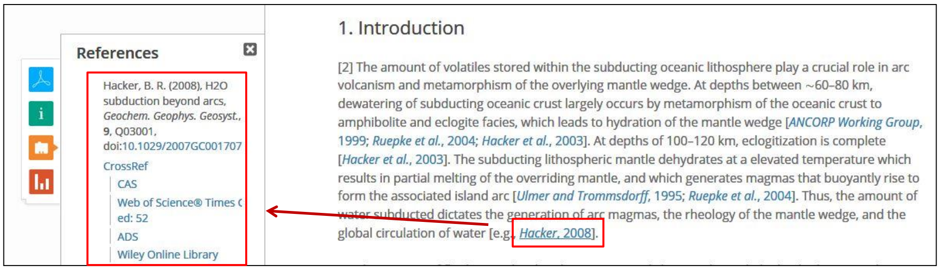

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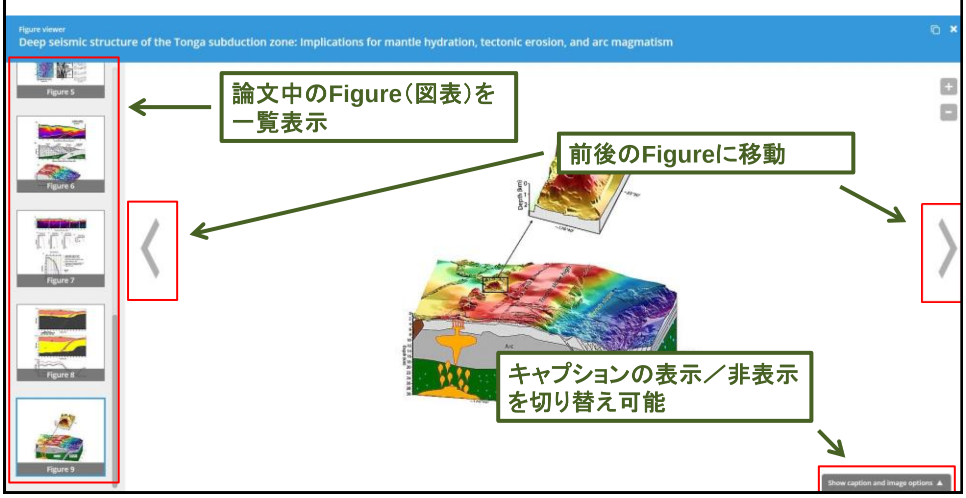

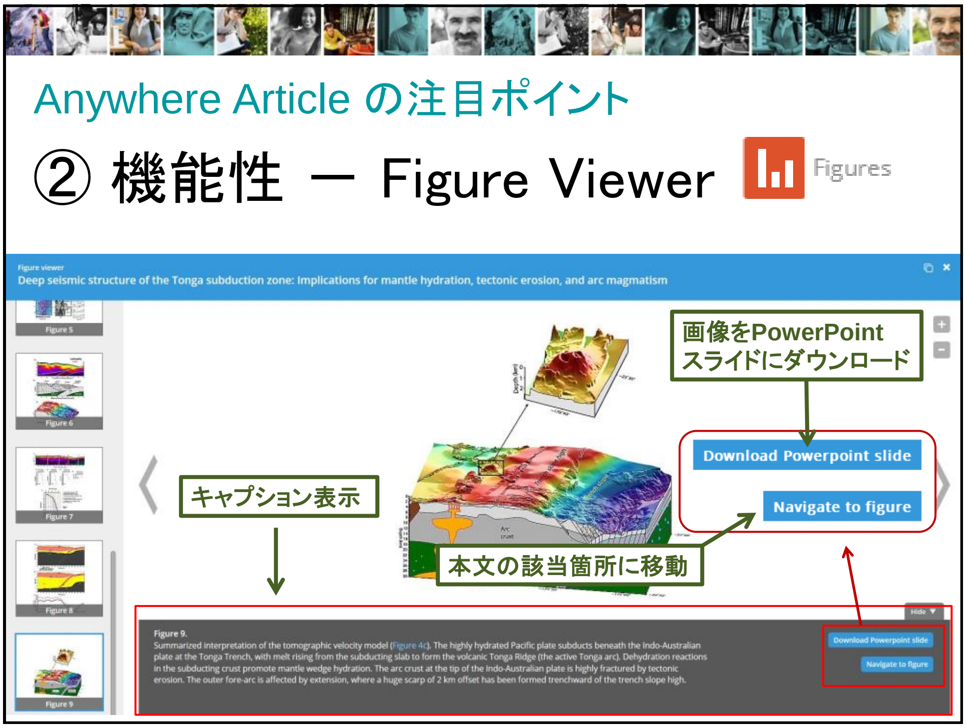
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② 機能性 ー Figure Viewer
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Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism
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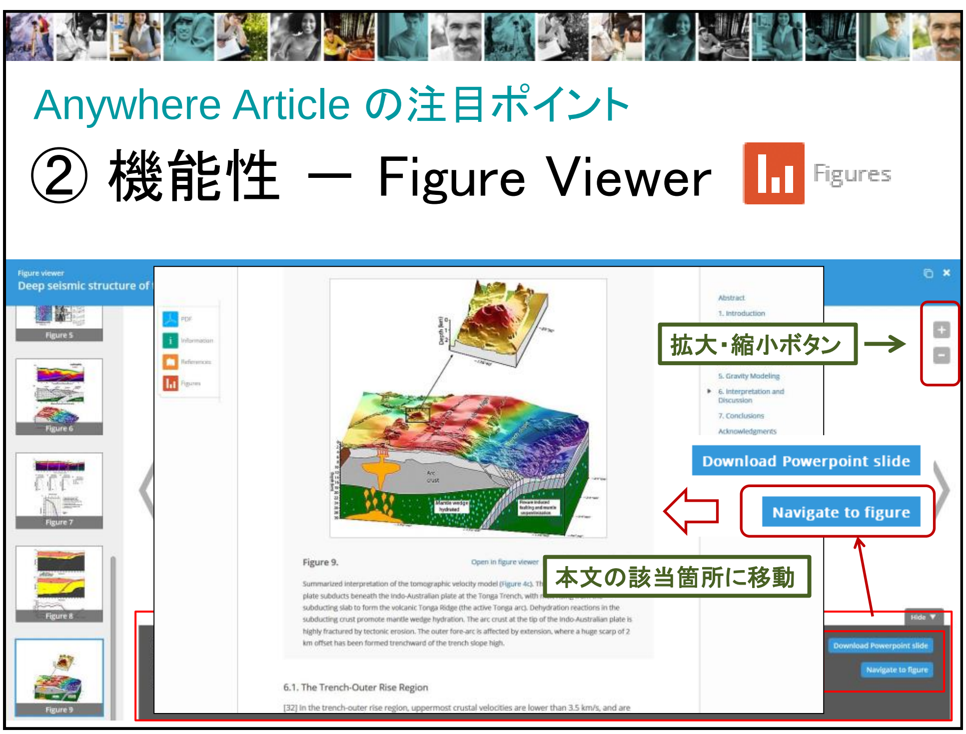
Figure 5
Figure 6
Figure 7
Figure 8
Figure 9
Hide
Figure 9.
Summarized interpretation of the tomographic velocity model (Figure 4c). The highly hydrated Pacific plate subducts beneath the Indo-Australian plate at the Tonga Trench, with melt rising from the subducting slab to form the volcanic Tonga Ridge (the active Tonga arc). Dehydration reactions in the subducting crust promote mantle wedge hydration. The arc crust at the tip of the Indo-Australian plate is highly fractured by tectonic erosion. The outer fore-arc is affected by extension, where a huge scarp of 2 km offset has been formed trenchward of the trench slope high.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Deep seismic structure of
Abstract
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5. Gravity Modeling
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7. Conclusions
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6.1. The Trench-Outer Rise Region
[32] In the trench-outer rise region, uppermost crustal velocities are lower than 3.5 km/s, and are
Figure 5
Figure 6
Figure 7
Figure 8
Figure 9
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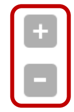

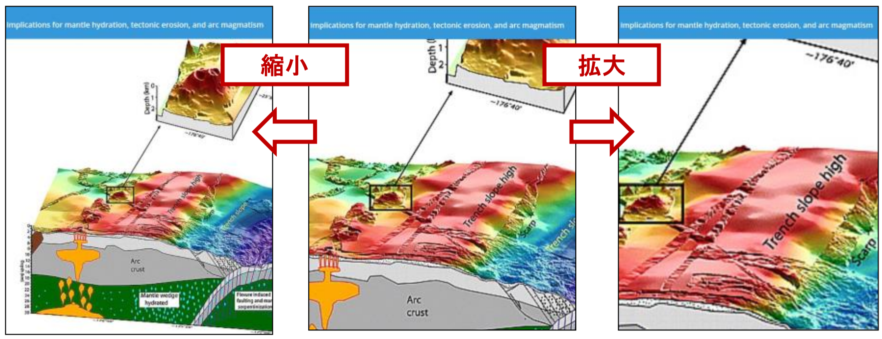

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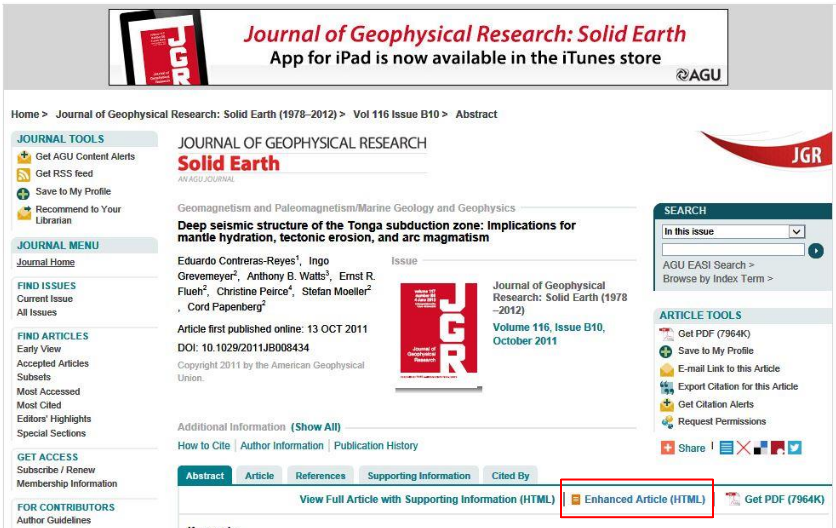

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