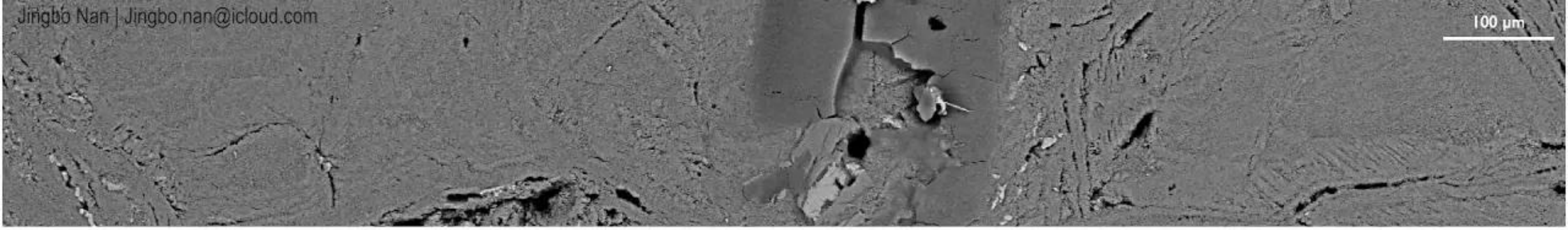

Abiotic synthesis of organic compounds in serpentinites

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1
00:00:05,190 --> 00:00:02,950
hello everyone i'm jim bonang i feel

2
00:00:06,789 --> 00:00:05,200
blessed to join this virtual conference

3
00:00:09,350 --> 00:00:06,799
i would like to give a talk about

4
00:00:11,749 --> 00:00:09,360
abiotic synthesis of organic compounds

5
00:00:14,150 --> 00:00:11,759
in soviet eyes

6
00:00:16,310 --> 00:00:14,160
hydrogen production during summarization

7
00:00:18,550 --> 00:00:16,320
of automatic rocks is thought to provide

8
00:00:20,710 --> 00:00:18,560
a high potential for abiotic production

9
00:00:22,390 --> 00:00:20,720
of organic compounds

10
00:00:24,390 --> 00:00:22,400
previous study have highlighted the

11
00:00:27,429 --> 00:00:24,400
abiotic simple and the solid organic

12
00:00:28,870 --> 00:00:27,439
molecules in certain addition systems

13
00:00:31,750 --> 00:00:28,880

but the direct evidence that the

14
00:00:34,150 --> 00:00:31,760
dominant iron oxide can catalyze organic

15
00:00:36,549 --> 00:00:34,160
production is lacking

16
00:00:40,150 --> 00:00:36,559
in this study our samples were recovered

17
00:00:42,150 --> 00:00:40,160
from the uptrend western pacific ocean

18
00:00:44,150 --> 00:00:42,160
by using high resolution imaging

19
00:00:46,389 --> 00:00:44,160
techniques we show direct evidence for

20
00:00:48,950 --> 00:00:46,399
the abiotic organic compounds also

21
00:00:51,830 --> 00:00:48,960
associated with iron oxides

22
00:00:54,150 --> 00:00:51,840
we therefore conclude that nanopores and

23
00:00:57,189 --> 00:00:54,160
the nano-sized iron oxides are the key

24
00:00:59,630 --> 00:00:57,199
for organic senses within cerunnite

25
00:01:01,510 --> 00:00:59,640
which may also have implications on

26
00:01:03,670 --> 00:01:01,520
extraterrestrial worlds where