

V 地球惑星システム学専攻
・地球惑星システム学科

1 地球惑星システム学専攻

1-1 専攻の理念と目標

1-2 専攻の組織と運営

1-2-1. 教職員

各研究グループの構成員

Das Kaushik

1-2-2. 教職員の異動

1-3 専攻の大学院教育

1-3-1. 大学院教育の目標とアドミッション・ポリシー

1-3-2. 大学院教育の成果とその検証

1-3-2-1. 教育内容

19-21

1

1-3-2-2. 充足率

30

2

100

3

60

1-3-5. 修士論文発表実績

30 3 12

Experimental study on relationship between permeability and transport pore radius of rocks

()

Yamato 000593

U-Pb

1-3-6. 博士学位

30 1

New dinosaur ichnofauna from the Lower Cretaceous of the eastern margin of Asia:
Implications for ichnotaxonomy and paleogeographic correlation

:

1-3-7. TAの実績

1-4 専攻の研究活動

1-4-1. 研究活動の概要

(1) 学会・講演

2 1	HiPeR	JAMSTEC	
2 26-27	The 3rd International HiPeR Symposium	4 . Prof. Chang Whan OH (Chongbuk National University,), Prof. Pham Trung Hieu 2 (VNU-HCM,) 9 13 , Das Kaushik, ,	
3 4-6	The 4th International HiPeR Symposium	10 4 2 2 1 1 20 7 30 HiPeR	
3 14			
3 14			

(2) 学

(4) 研究成果の社会への還元実績

5 1 8 28	GSC 3	
5 26		
6 9	(SSH)	
7 9-10		
8 10		
8 10	GSC-	
9 13		
10 27 -28		24
10 21	30 GSC	
10 31		
11 10-11		
12 15		30
1 5	GSC	
2 10	30	
3 20-21		
3 24	2019	

(5) 産学官連携実績

(6) 国際交流実績・国際交流共同研究・国際会議開催実績

	L. Cury A. Bahniuk	
	P. Chakraborty	
Gwalior	P. Chakraborty	
Joint meeting of Regolith science and Multi-scale asteroid science	JAXA DLR CNES NASA	

JSPS	JAXA DLR CNES NASA	
Hayabusa2 Joint Science Team Meeting		
	A. El Goresy (BGI) Y. Lin (CAS) Ph. Gillet (EPFL)	
Almahatta Sitta	A. El Goresy (BGI) Y. Lin (CAS) Ph. Gillet (EPFL)	
	S. Ghosh (IIT-Kharagpur)	
	Y. Lin (CAS)	
	M. Anand (The Open Uni.,)	
	, N. Satta BGI	
	H.M. Helmy	
	G. Bianchini	
Zagros	Sabah Khaiat	
	G. Ghosh	Das Kaushik
	A. Chattopadhyay	Das Kaushik
	Arancibia	
	S. Bose	Das Kaushik

	G. Ghosh	Das Kaushik
Vamsadhara Shear Zone Nagavalli-Granitoid	S. Karmakar	Das Kaushik
Precambrian Basin	P.P. Chakraborty	Das Kaushik
CITZ G-T Shear Zone	A. Chattopadhyay	Das Kaushik
Dharwar Craton	S. Balakrishnan	Das Kaushik
JSPS DST 2019 3 7-16 : , , 77	P.P. Chakraborty (,) S. Bose, () () 18	Das Kaushik
(Mg,Fe) ₂ SiO ₄		

○国内学会での招待・依頼・特別講演

_____。 2018
 11 27
 _____。
 2018 2018 5 23
 _____。 79
 _____。 2018 9 18 21
 _____。 XFEL
 _____。 2018 12 3 6
 35

○国内学会での一般講演

_____。 2018
 _____。 2018 5 22
 _____。 2018
 _____。 2018 5 20
 _____。 2018
 _____。 2018 5 20
 Ildefonse Benoit _____。 2018
 _____。 2018 5 21
 _____。 2018
 _____。 2018 5 20
 _____。 brucite velocity-weakening
 2018 2018 5 20
 _____。
 _____。 4D -
 - 2018 2018 5 21
 _____。 Incorporation of nitrogen
 into the lower-mantle minerals under high pressure and high temperature-Transportation and
 storage of nitrogen in the deep earth- 2018 JpGU2018
 2018 5 20 25 , 8000 .
 Chaowen Xu Toru Inoue Melting phase relation of Fe-bearing PhD up to the uppermost lower mantle
 and transportation of H₂O to the deep Earth 2018 JpGU2018
 2018 5 20 25 , 8000 .
 _____。 MgSiO₃
 2018 JpGU2018 2018 5 20 25 ,
 8000 . ti18

_____ Al
 2018 JpGU2018 2018 5 20 25 ,
 8000 .
 _____ Al superhydrou phase B
 2018 JpGU2018 2018 5
 20 25 , 8000 .
 _____ 2018 2018 9 19 21 ,
 250 .
 _____ Al bridgmanite
 2018 2018 9 19 21 ,
 250 .
 _____ MgSiO₃
 2018 2018 9 19 21 , 250 .
 _____ 2018 , 2018 9
 19 21 , 250 .
 _____ MgSiO₃ 54
 2018 10 31 11 2 , 250 .
 _____ Bridgmanite
 Fe , 59 2018 11 26 28 ,
 250 .
 _____ MgSiO₃ , 59
 2018 11 26 28 , 250 .
 _____ CaTiO₃
 CaAlO_{2.5} , 59 2018 11 26 28 ,
 250 .
 _____ X Al
 2018 12 13 14 ,
 100 .
 _____ 2018 2018 10 9 11

2018 2018 1; 2

	JDxnet	2019
3 26		
28	59	2018 11 26
V	t 59 :	0 3 11 }

1-4-3. 各種研^ㄉ

全國共同利用案

1-5 その他特記事項

2019 3 20

3 25 NHK

9

2 地球惑星システム学科

2-1 学科の理念と目標

2-2 学科の組織

DAS Kaushik

31 3 31

2-3 学科の学士課程教育

2-3-1. アドミッション・ポリシーとその目標

q

2-3-3. 学士課程教育の成果とその検証

2-3-3-1. 教育内容

2 3

1 2 3
4

2-3-3-2. 進学・就職状況

30 23

12

9

1 ,

2

10

SOME SG

2-3-4. 卒業論文発表実績

30 9 3

U-Pb

(Age of sedimentation and stratigraphy of Himalayan basement rocks: U-Pb age of detrital zircon)

Doushantuo Duoding

(Characteristics of Duoding section, Ediacaran Doushantuo Formation, China)

(Correlation of Cretaceous granitoid with ignimbrite of Sanyo Province using minor element composition of apatite)

30 3 20

(Behavior of aqueous-silicate fluid under high pressure)

ICP-MS

(Measurement method of boron content in igneous rocks by ICP-MS using calibration curve method, internal standard method and isotope dilution method)

(Back-arc spreading caused by lithospheric-strength reduction by water and magma injection)

(Characteristics of phosphate stromatolite in the Paleoproterozoic Aravalli Supergroup, India)

(Microstructure and Magnetic Properties of Magnetite Containing Tin in Sanpou Mine, Takahashi City, Okayama Prefecture)

(Real-time monitoring of shallow very low-frequency earthquakes occurring along the Nankai Trough)

(Geochemical comparison between Middle Pleistocene tephra in Saijo Formation of Saijo-Kurose Basin and coeval pyroclastic flows in Kyushu, SW Japan)

Impact melt breccia

(Evidence for Giant Impact recorded in Impact melt breccia)

S

(Measurement of shear-wave polarization anisotropy in crack-bearing Aji granite during frictional experiments)

(Terrane analysis of Pre-Cretaceous basement rocks distributed in the northwestern area of Hiroshima Prefecture by detrital zircon chronology)

(Elucidation of the formation mechanism of manganese oxides at the Onneto Yunotaki hot spring, Hokkaido)

(Effect of pore pressure on attenuation of seismic waves in thermally cracked Granite)

i

(Evaluation of mass spectra obtained by laser-desorption ionization of organic compounds for the development of on-site mass spectrometry of cosmic dust)

(Geochemical and petrological characteristics of Quaternary volcanics from Kuju volcanic group, Kyushu, Japan)

(Estimation of pressure- a

an , K n re- is o-

(Attempt of characterization of prebiotic polymer components by matrix assisted laser desorption ionization mass spectrometry)

(Behavior of silicate under ultra-high pressure by laser shock experiment with Bridgmanite and implication for the state of materials inside Super Earth)
NWA10870

(Mineralogical study on NWA10870 ureilite meteorite)

(Gold mineralization in the Arabira deposit of the Iwato mine, Kyushu, Japan)

2-3-5. TA

'S

...#+ •

• TM \ ...7È

=

= %

fl lfl %L

=

==

9Ufh\ UbX D' UbYhUfmiGM/YbW

&

,

%

&

&

lgC

&

&

&

&

&

&

%

%

%

%

%

(

(

(

U

"

)

è

V

IzÒ' òD" • †

μ

t

@ >/° #Ô @>* ...#+ h í Ñ μ » ± î Ò † f, † š Ÿ M • œ c>* \ M (b Ž1 † " • G \
@ 4E ¥² Ÿ ? }>*>/&É% j c ") †2x < Z š Ÿ K S œ c>* @ >' _ | ~'l9_1 u S œ †7V A>* Ÿ ø0[ó
b") _ c • < } ∈ ^ 8
@ ² Ÿ >*4E ¥² Ÿ &É% l g4E ¥ è ¥ b _&g M&É% † š Ÿ K SDP ¥

ãB ") °>* Ÿ # ° ó ≤ • C Å @ A p€°
6 Ú4E ¥ °Éð ? Ú> Ee&É% ^^2x < Z š Ÿ K S%Rl• 6 Ú&É b S 7 g b"QÑ}&É%
6 Ú&É è P† ,@s"l*(Ç b"XÑ) Rl•%

		2		
		12		
		1		
		2		
		2		
		2		
		2		
		2		
		2		
		2		
		2		
		2		
		1		
III		1		
IV		1		
Earth and Planetary Science		1		
		1		
		6		
		6		
		6		

地球惑星システム学プログラム履修要領

22 1
4

(7 8)
A B 128
A 108

8 24 84 52

5

30

