

**Papers presented to the 28th Symposium on Antarctic Meteorites  
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1. Bérczi Sz., Fabriczy A., Földi T., Hargitai H., Hegyi S., Hudoba Gy., Illés E., Kovács Zs., Kereszturi A., Mörtl M., Sik A., Józsa S., Szakmány Gy., Weidinger T., Roskó F. and Tóth Sz.  
Analog site studies in planetary science on Eötvös University, Hungary  
(Unusual guidebook, terrestrial field work and microenvironmental studies)
2. Chokai J., Mikouchi T., Arai T., Monkawa A., Koizumi E. and Miyamoto M.  
Mineralogical comparison between LAP02205 and lunar mare basalts
3. Christen F., Busemann H., Lorenzetti S. and Eugster O.  
Mars-ejection ages of Y000593, Y000749, and Y000802 (paired nakhlites) and Y980459 shergottite
4. Dreibus G. and Jagoutz E.  
Similarities and diversities of nakhlites
5. Fritz J., Greshake A. and Stöffler D.  
Micro Raman spectroscopy of plagioclase and maskelynite in Martian meteorites: Evidence for progressive shock metamorphism
6. Fukushi Y., Tazawa Y., Fukuoka T., Saito Y. and Yada T.  
Chemical composition of individual micrometeorites collected from Antarctic ice
7. Funaki M. and Syono Y.  
Magnetization of the impact-generated plasma and shock induced magnetization under the pressure 5, 10 and 20 GPa
8. Hiyagon H. and Kimura M.  
Chemical composition, cathodoluminescence images and oxygen isotopes of FeO-poor isolated olivine grains from the Murchison CM2 chondrite
9. Ikeda Y. and Shimoda G.  
Major-element trend for shergottite melts and their source materials
10. Imae N.  
An experimental study of the phase equilibrium using a parent magma composition formed nakhlites
11. Ishizaki N. and Tomeoka K.  
Silicate darkening in CK chondrites: Verification of the cause by vesicular olivine
12. Jagoutz E., Jotter R., Kubny A., Zartman W. and Dreibus G.  
U-Th-Pb systematics in chondrites
13. Jull A.J.T., McHargue L.R., Johnson J.A. and Nishiizumi K.  
Terrestrial <sup>14</sup>C ages of Yamato meteorites
14. Kaiden H. and Buchanan P.C.  
Comparison of Fe-Mg interdiffusion coefficients in orthopyroxene: Implication for metamorphism of the Petersburg polymict eucrite
15. Karouji Y., Ebihara M. and Yamaguchi A.  
Chemical characteristics of lunar meteorites, Yamato-86032 and Dhofar 489
16. Kimura M., Hiyagon H., Nakajima H. and Weisberg M.K.  
Spinel group minerals in LL3 chondrites: Primary and secondary features

17. Kita N.T., Kimura M. and Morishita Y.  
The Al-Mg system in chondrules from the most primitive H chondrite Y-82038
18. Kitajima F., Kitajima Y., Nakamura T. and Mase K.  
A XAFS study on degrees of alteration/metamorphism of carbonaceous matter in carbonaceous chondrites in their parent bodies
19. Kitazato K., Abe M., Nakamura A.M., Saito J. and Fujiwara A.  
Hapke parameter properties of bidirectional reflectance for Yamato-75102 L6 chondrite
20. Koizumi E., Mikouchi T., Miyamoto M., McKay G., Monkawa A. and Chokai J.  
Experimental and computational studies of the olivine-phyric shergottite Yamato 980459
21. Kusakabe M., Maruyama S. and Kojima H.  
 $^{17}\text{O}/^{16}\text{O}$  and  $^{18}\text{O}/^{16}\text{O}$  ratio measurement using laser fluorination with application to some Antarctic meteorites
22. Marakushev A.A., Zinovieva N.G., Bobrov A.V. and Granovsky L.B.  
The nature of diamond in ureilites and carbonaceous chondrites
23. McKay G., Le L., Schwandt C., Mikouchi T. and Koizumi E.  
Redox state and petrogenesis of martian basalts: Clues from experimental petrology
24. Mikouchi T., Monkawa A., Tachikawa O., Yamada I., Komatsu M., Koizumi E., Chokai J. and Miyamoto M.  
Electron back-scatter diffraction (EBSD) and fore-scatter electron (FSE) image analyses of nakhlites
25. Miura H. and Nakamoto T.  
Thermal history of chondrules during shock-wave heating
26. Miura Y.N., Sugiura N., Kusakabe M. and Nagao K.  
Noble gases in Northwest Africa 1670, a new angrite, and oxygen isotopes of this angrite and some achondrites
27. Monkawa A., Mikouchi T., Koizumi E., Sugiyama K. and Miyamoto M.  
Oxidation state of iron in martian kaersutites: A micro-XANES spectroscopic study
28. Nakamoto T., Kita N.T. and Tachibana S.  
Chondrule age distribution and degree of heating for chondrule formation
29. Nakamuta Y.  
Morphologies of graphite in ureilites: Implications for the petrogenesis of ureilites
30. Ninagawa K., Imae N., Kojima H. and Yanai K.  
Thermoluminescence study of Japanese Antarctic Meteorites VIII
31. Nishiizumi K. and Hillegonds D.J.  
Exposure and terrestrial histories of new Yamato lunar and martian meteorites
32. Noguchi T., Imae N. and Kimura M.  
Petrology and mineralogy of Asuka-881020: A preliminary report of the first CH chondrite found among the Japanese Antarctic meteorite collection
33. Noguti M., Matsuzaki H., Setoguchi M., Honda M. and Nagai H.  
Depth profile of cosmogenic nuclides in large iron meteorites
34. Nyquist L.E., Shih C.-Y. and Takeda H.  
Chronology of eucrite petrogenesis from Sm-Nd and Rb-Sr systematics

35. Okamoto C., Ebihara M. and Yamaguchi A.  
Geochemical study of metal-rich eucrites from Antarctica
36. Osawa T. and Nagao K.  
Noble gas compositions of gas-rich and gas-poor polymict breccias
37. Ozima M., Miura Y.N., Podosek F.A. and Seki K.  
Early earth evolution recorded in lunar soils? A case for geomagnetic field
38. Park J. and Nagao K.  
Noble gas study of eucrites Asuka-880702, -880761, -881388
39. Sasaki T., Sasaki S., Watanabe J., Sekiguchi T., Kawakita H., Fuse T., Takato N., Yoshida F., Dermawan B. and Ito T.  
Presence of mature and fresh surfaces on new-born asteroid Karin
40. Sugita M. and Tomeoka K.  
Sodium-metasomatism in CAIs in the anomalous carbonaceous chondrite Ningqiang: Evidence for parent-body processes
41. Sugiura N. and Miyazaki A.  
CL images of anorthite in meteorites
42. Tachibana S., Huss G.R., Miura H. and Nakamoto T.  
Heating conditions of chondrule precursors during shock-wave heating: Constraints from sulfur isotopic compositions of chondrule troilites
43. Takeda H., Bischoff A. and Yamaguchi A.  
Magnesian granulitic clasts in some lunar meteorites from the feldspathic highlands
44. Tamaki M., Misawa K., Yamaguchi A., Ebihara M. and Takeda H.  
Petrologic study of eucritic enclaves in mesosiderites, Mt. Pudbury and Vaca Muerta
45. Tomiyama T. and Misawa K.  
Thermal history of Yamato-86753
46. Yamaguchi A. and Mikouchi T.  
Heating experiments of the HaH262 eucrite
47. Yamamoto Y., Okazaki R. and Nakamura T.  
Aqueous alteration effects on argon-rich noble gases in the Ningqiang carbonaceous chondrite: An experimental study
48. Yamashita K., Nakamura N. and Heaman L.M.  
Pb isotopic study of Kobe (CK4) meteorite
49. Zolensky M.E., Tonui E.K., Bevan A.W.R., Le L., Clayton R.N., Mayeda T.K. and Norman M.  
Camel Donga 040: A CV chondrite genomict breccia with unequilibrated and metamorphosed material