Diamonds and their inclusions are unique fragments of deep Earth, which provide rare samples from inaccessible portions of our planet. Inclusion-free diamonds cannot provide information on depth of formation, which could be crucial to understand how the carbon cycle operated in the past. Inclusions in diamonds, which remain uncorrupted over geological times, may instead provide direct records of deep Earth’s evolution. Here, we applied elastic geothermobarometry to a diamond-magnesiochromite (mchr) host-inclusion pair from the Udachnaya kimberlite (Siberia, Russia), one of the most important sources of natural diamonds. By combining X-ray diffraction and Fourier-transform infrared spectroscopy data with a new elastic model, we obtained entrapment conditions, \( P_{\text{trap}} = 6.5(2) \) GPa and \( T_{\text{trap}} = 1125(32)-1140(33) \) °C, for the mchr inclusion. These conditions fall on a ca. 35 mW/m² geotherm and are colder than the great majority of mantle xenoliths from similar depth in the same kimberlite. Our results indicate that cold cratonic conditions persisted for billions of years to at least 200 km in the local lithosphere. The composition of the mchr also indicates that at this depth the lithosphere was, at least locally, ultra-depleted at the time of diamond formation, as opposed to the melt-metasomatized, enriched composition of most xenoliths.

**Cr-spinels in Diamonds.** Lithospheric diamonds (those diamonds formed at depths between about 130 and 200 km) represent 99% of all mined diamonds. These diamonds may contain mineral inclusions, which can be used to derive inferences on the physical-chemical environments in which their host diamonds were formed. Cr-rich spinel (mainly magnesiochromite, hereafter, mchr) is one of the most common inclusions found in diamonds, representing about 14% of reported inclusions in lithospheric diamonds worldwide. The compositional variations in mchr inclusions are mainly reflected in their \( \text{Cr} / (\text{Cr} + \text{Al}) \) and \( \text{Mg} / (\text{Mg} + \text{Fe}) \) molar ratios (hereafter, \( \text{Cr}^\# \) and \( \text{Mg}^\# \), respectively). Typical ranges are \( \text{Cr}^\# = 0.80-0.93 \) and \( \text{Mg}^\# = 0.59-0.80 \), with an average crystal chemical formula of \( \text{Mg}_{0.70}\text{Fe}_{0.36}\text{Cr}_{1.67}\text{Al}_{0.26}\text{O}_4 \). The composition of mchr in mantle peridotites from the diamond stability field depends on pressure \( (P) \), temperature \( (T) \), host-rock composition and modal abundance of mchr in the rock. Since the composition of mchr is not a simple function of \( P \) and \( T \), mchr inclusions are not typically used for geothermobarometry. In this work, we adopted the elastic geothermobarometry approach to determine the formation \( P \) of mchr-bearing diamonds. Given the relatively common occurrence of mchr inclusions in diamonds, this method can potentially be applied to a large number of stones from worldwide localities. This would in turn allow better insight into the depth distribution of lithospheric diamonds at global scale and, consequently, into the processes that control diamond formation in the Earth’s mantle.
Unprecedented Application of Elastic Geothermobarometry to Diamond-mchr host-Inclusion System.

The elastic geothermobarometry approach is based on an old idea 3,4; in the last few years, its theoretical basis has been extended with the aim to calculate the depth of formation of a diamond-inclusion pair, by combining non-linear equations of state (EoS) with suitable models for elastic relaxation and without any approximations of linear elasticity5–17. When a mineral trapped in a host at conditions $P_{\text{trap}}$ and $T_{\text{trap}}$ is exhumed to the Earth’s surface, it may develop residual strains as a result of the contrast in elastic properties between the host and the inclusion. If these residual strains are measured when the host is at room pressure, and $T_{\text{trap}}$ is known independently, $P_{\text{trap}}$ can be back-calculated as the conditions at which there are no strain and stress gradients in the host-inclusion system. This calculation is possible if the elastic properties (i.e. bulk modulus, its pressure derivative and the thermal expansion behavior expressed as EoS) of both the host and the inclusion are known. So far, only the EoS for diamond and for a few common mineral inclusions in diamond were available with the accuracy required for geobarometric calculations7,12,13,18. In particular, the elastic properties are not only dependent on the mineral phase, but also on its chemical composition. Therefore, to extend the applicability of elastic geobarometry to various inclusion types, it is crucial to determine the EoS for a larger number of minerals and compositions. Moreover, elastic geobarometry could lead to incorrect estimates of entrapment conditions if the following factors are not adequately considered: (i) the occurrence of brittle or plastic deformation in the host diamond; (ii) the shape of the inclusion and its distance from other inclusions and from the external surfaces of the diamond16; (iii) the elastic anisotropy of the host and of the inclusion15,17,19–21; (iv) the presence of a fluid rim around the inclusions observed in several diamonds17,22,23. In this light, mchr inclusions in lithospheric diamonds could be among the best candidates for elastic geobarometry, because (a) plastic deformation is generally minor in lithospheric diamonds compared with higher-T and highly strained sub-lithospheric diamonds; (b) the mchr crystal shape is often equant to almost rounded, thus the “geometrical effect” is small16, and (b) both mchr and diamond have a cubic symmetry and their elastic behavior can be approximated as isotropic. A possible problem is the presence of a fluid rim, which is quite common at the interface between mchr and diamond22. The elastic properties of such fluid are not known, but its estimated thickness is so limited (even less than 1 μm) that its effect can reasonably be neglected, at least in the absence of cracks departing from the host–inclusion interface.

At present, the main obstacle to the application of elastic geobarometry to mchr-bearing diamonds is the knowledge of the EoS of mchr. The variations in published values for bulk modulus and its first pressure derivative for mchr with different compositions24–28 indicate a degree of uncertainty that is too large for reliable geobarometry. To circumvent this problem, we have determined experimentally an EoS for a single mchr crystal, sample Ac139, which had been extracted from a Siberian diamond. We used state-of-art high-pressure techniques (see Methods) in order to get accurate and precise unit-cell volumes as a function of $P$. The resulting EoS was applied to a second mchr inclusion, sample MgCr2, Fig. 1, in another Siberian diamond from the Udachnaya kimberlite with the aim of determining the depth of diamond formation.

The chemical compositions of Ac139 and MgCr2 are the following:

Ac139: $\text{Mg}_{0.64}\text{Fe}_{0.40}\text{Cr}_{1.73}\text{Al}_{0.22}\text{Ti}_{0.01}\text{Mn}_{0.01}\text{O}_4$

MgCr2: $\text{Mg}_{0.64}\text{Fe}_{0.42}\text{Cr}_{1.66}\text{Al}_{0.26}\text{Ti}_{0.02}\text{V}_{0.04}\text{O}_4$

Not only these two samples show very similar compositions (see chemical compositions in oxide wt%, Supplementary Table 1), but they also have compositions typical for mchr in diamonds1.
The results from the elastic geobarometry applied to diamond-mchr host-inclusion system in this work provide the first direct determination of provenance depth for a mchr-bearing diamond and new constraints on the thermal state and composition of the deep Siberian cratonic lithosphere at the time of diamond formation.

**Pressure-Volume-Temperature Equation of State of Reference mchr.** The best fit to the $P$–$V$ data (Fig. 2a and Supplementary Table 2) for Ac139 is obtained for a second-order Birch-Murnaghan (BM2) EoS\(^{27}\), which gives the following parameters at room conditions: unit-cell volume $V_0 = 576.19(3)$ Å\(^3\), Reuss isothermal bulk modulus $K_{RT0} = 182.8(6)$ GPa (first pressure derivative $K_{RT0}'$ fixed to 4).

The full thermoelastic behavior of a mineral can be expressed through a $P$–$V$–$T$ EoS that incorporates the concept of thermal pressure\(^{28}\). We therefore estimated the $P$–$V$–$T$ EoS of Ac139 by combining the BM2 EoS at room conditions with the $T$–$V$ data available in the literature for similar compositions. To constrain the high-$T$ thermal behavior of our Ac139, we selected data\(^{29}\) obtained on a natural mchr spinel with composition $\text{Mg}_{0.58}\text{Fe}_{0.42}\text{Cr}_{1.52}\text{Al}_{0.48}\text{O}_4$ to 823 °C, and those obtained\(^{30}\) on a synthetic magnesiochromite crystal ($\text{MgCr}_2\text{O}_4$) to 1000 °C. Figure 2b shows that the normalized unit-cell volumes as a function of $T$ reported in these two studies are in very good agreement, suggesting that relatively large substitutions of Mg for Fe and of Cr for Al have negligible effects on the thermal behavior. Moreover, the literature data\(^{30}\) clearly show no cation order-disorder process, implying no order-disorder also for the mixed composition\(^{29}\). Since the chemical composition of sample Ac139 lies between the two chemical compositions investigated in the literature\(^{29,30}\), these two datasets can be considered representative also of its high-$T$ behavior. To further constrain the thermal behavior, we also used the low-$T$ data\(^{31}\) obtained on a synthetic polycrystalline MgAl\(_2\)O\(_4\) spinel from $-196$ °C to room-$T$. The incorporation of the low-$T$ data\(^{31}\), even referring to a chemical composition that is different from Ac139, does not affect the final fitting, but provides a further constraint (i.e. lower uncertainties) for the thermal EoS parameters. On a cubic mineral, like mchr, in which the thermal expansion and the axial moduli are equal in all directions, a thermal pressure model based on the quasi-harmonic approximation\(^{28}\) can be applied. Therefore, in order to determine the $P$–$V$–$T$ EoS for mchr, we fitted $P$–$V$ data for Ac139 and the selected $T$–$V$ data from the literature by combining our BM2 EoS with the thermal pressure model\(^{28}\). The final $P$–$V$–$T$ EoS parameters are reported in Supplementary Table 3. Considering that the bulk modulus is practically identical for both MgCr\(_2\)O\(_4\) and FeCr\(_2\)O\(_4\)\(^{25,30}\), we are confident that our $P$–$V$–$T$ EoS parameters can be applied to a wide range of mchr compositions, including the sample here investigated MgCr\(_2\).

Relatively to the effect of inversion of the spinel component on the inclusion volume at elevated temperature, it is negligible. In fact, for MgAl\(_2\)O\(_4\) spinel from inversion ($x = 0$), corresponding to an ideally ordered phase, to $x = 0.29$, corresponding to disorder at 1100 °C, volume change is only 0.3%, that is from 529.475 to 528.082 Å\(^3\) (ref.\(^{31}\)).

The effect of pressure is also negligible, as up to 7.5 GPa pressure has little or no influence on the degree of order in the MgAl\(_2\)O\(_4\) spinel\(^{31}\).

Moreover, the influence of inversion on the elastic properties of MgAl\(_2\)O\(_4\) spinel is also very limited. In fact, from $x = 0$ to $x = 0.30$, the decrease of bulk modulus $K_{RT0}$ is about 1%, as shown by comparing results of density functional theory and Brillouin scattering technique\(^{34}\). Please note that all the considerations above refer to a pure MgAl\(_2\)O\(_4\) spinel, whereas the MgAl\(_2\)O\(_4\) component of our magnesiochromite inclusions is at maximum 13%.

**Diamond Residence Temperature and Depth of Formation of the Diamond-mchr pair.** The Fourier transform infrared (FTIR) measurements on the MgCr\(_2\) diamond host indicate an average N content ($N_{\text{tot}}$) of 267 ppm and an aggregation of B defects percentage (%I\(_{\text{aB}}\)) of 32% (Supplementary Table 4). In Fig. 3 we show one of the FTIR spectra we have collected on MgCr\(_2\) diamond host (in Supplementary Data 1 to 6 all FTIR spectra were available). These values are typical for Udachnaya diamonds\(^{35}\) and allow to classify the diamond as
Type-IaAB. Based on the procedure reported in the Methods and taking into account the age of the host kimberlite (ca. 360 Ma\(^{36}\)), our calculations indicate a mantle residence temperature, \(T_{\text{res}}\), of 1125(32) °C for a diamond age of 3.5 Ga and of 1140(33) °C for a diamond age of 2 Ga (Supplementary Table 4). These two ages cover the range of reported ages for Udachnaya diamonds\(^{37-39}\). The retrieved \(T_{\text{res}}\) values differ by less than their respective uncertainties and lie within the typical range of \(T_{\text{res}}\) for peridotitic diamonds from Udachnaya (ca. 1125–1175 °C, ref.\(^{36}\)). Since a short residence at higher \(T\) during the early history of the diamond would have not produced significant effects on the final N-aggregation state, the estimated \(T_{\text{res}}\) of 1125–1140 °C can be considered as a minimum \(T\) estimate for diamond formation.

The SC-XRD measurements performed on inclusion MgCr\(_2\) before and after its release from the diamond provided unit-cell volumes (\(V_0\)) of 573.3(2) and 576.6(2) Å\(^3\), respectively. We used our \(P–V\) EoS (Supplementary Table 2) to convert the residual volume strain recorded by the inclusion still trapped in the host diamond into the hydrostatic component of the residual stress, i.e. the residual pressure (\(P_{\text{res}}\)), and obtained a value of 1.073(72) GPa at room conditions. The esd on \(P_{\text{res}}\) was calculated by propagation of uncertainties on the EoS parameters (see Supplementary Table 3) and on \(V_0\) measurements. Using this \(P_{\text{res}}\), the \(P–V–T\) EoS determined for the compositionally similar mchr Ac139, and the \(P–V–T\) EoS for diamond\(^1\), we can now calculate the entrapment conditions for the MgCr\(_2\) inclusion (shape of the inclusion and its distance from the diamond surface did not require further corrections\(^{40}\)). Since both the host and the inclusion have cubic symmetry, we can apply the geobarometric model developed for isotropic systems and calculate the entrapment isomeke for the specific \(P_{\text{res}}\) using the EosFit-Pinc software\(^{40}\). The entrapment isomeke is the line that defines all the possible entrapment conditions for a given \(P_{\text{res}}\) (refs\(^{6,8}\)). A specific entrapment pressure (\(P_{\text{trap}}\)) can be obtained if the \(T_{\text{trap}}\) is independently constrained. Since the isomeke has a small \(\partial P/\partial T\), the \(T\)-dependency of the elastic geobarometer is low. Assuming for the MgCr\(_2\) inclusion a minimum \(T_{\text{trap}}\) equal to the estimated \(T_{\text{res}}\) of 1125–1140 °C, we obtain a minimum \(P_{\text{trap}}\) of 6.5(2) GPa (the uncertainty derives from the error propagation of all parameters used to calculate it), corresponding to a minimum depth of about 205(6) km (Fig. 4; the data used to plot the entrapment isomeke in figure are reported in Supplementary Table 5; the input files to run EosFit-Pinc software for our diamond - MgCr\(_2\) pair are available in Supplementary Data 7 and 8).

**The P-T Conditions of the Diamond-mchr System: Implications for the Mantle Under Udachnaya.** Thermobarometric data obtained for mantle xenoliths from the Udachnaya kimberlite show relatively large scatter compared to many other cratonic mantle sections, making it difficult to outline a unique geotherm for this locality\(^{40}\) (Fig. 4). Existing data suggest that the mantle under Udachnaya experienced very cold conditions during at least part of its history, as testified by several peridotites and peridotitic garnets falling close to a ca. 35 mW/m\(^2\) conductive geotherm\(^{40-41}\). The lithosphere under Udachnaya extended to ca. 230 km depth at the time of kimberlite eruption, but the depth extension of the cold geotherm is poorly constrained due to scatter of \(P–T\) data. In fact, the deepest portion of the lithosphere records significant thermal perturbation, with the majority of high-\(P\) xenoliths (>5 GPa) being shifted to ca. 200–300 °C higher \(T\) (ref.\(^{40}\)) (Fig. 4).

The estimated \(P_{\text{trap}} – T_{\text{res}}\) conditions for diamond - MgCr\(_2\) pair (6.5 GPa at ca. 1130 °C; see the \(P–T\) data relative to the isomeke in Fig. 4 provided between 700 and 1400 °C in Supplementary Data 9) fall right on the 35 mW/m\(^2\) geotherm (Fig. 4). This indicates that cold conditions have persisted for a long geological time in the Udachnaya lithosphere to at least 200 km depth. Heating processes shortly before or during kimberlite eruption might lead to overestimation of the real \(T_{\text{res}}\) in the mantle and, consequently, of \(P_{\text{trap}}\). However, this effect cannot be significant, otherwise \(P–T\) estimates along the entrapment isomeke would become incompatible with even the coldest cratonic geotherm (Fig. 4). We cannot exclude that our diamond has formed during a short thermal pulse at conditions somewhat hotter than the 35 mW/m\(^2\) geotherm, as this would not be recorded in its N-aggregation state\(^1\). In this case, however, the real \(P_{\text{trap}}\) would be slightly higher (e.g. ca. 7 GPa for a \(T_{\text{trap}}\) of 1300 °C) and the
depth extension of the long-lived cold geotherm would only be greater (i.e., to ca. 1130 °C and 7 GPa, or 220 km). Much higher $P_{\text{trap}}$, however, would imply long-term residence at conditions, again, too cold for a cratonic lithosphere (Fig. 4). For the same reasons, significant $P_{\text{trap}}$ underestimation due to plastic deformation and $P_{\text{in}}$ relaxation can be excluded. Disregarding the inevitable small discrepancies between $P$–$T$ estimates obtained with different thermobarometric methods, our results provide independent confirmation of literature hypothesis 41, based on scanty xenolith (megacrystalline peridotites) and garnet xenocryst data, that a cold 35 mW/m² geotherm originally extended to ca. 1200 °C.

Abundant experimental data and thermodynamic modeling2,42–46 showed that the stability of mchr in peridotite is strongly dependent on the peridotite ‘fertility’ and that in the garnet–spinel stability field Cr#$^{\text{spinel}}$ increases rapidly with increasing $P$ and slightly with decreasing $T$. At given $P$–$T$, Cr#$^{\text{spinel}}$ depends on the spinel modal abundance and is thus lower in more spinel-rich, more depleted peridotites2. Thermodynamic modeling in natural peridotitic systems2 predicts that, along a 35 mW/m² geotherm in very depleted harzburgite with bulk Cr# = 0.32, spinel is only stable to 5.5 GPa and 1000 °C, where it reaches a Cr#$^{\text{spinel}}$ of ca. 0.9. These conditions are not compatible with our $P$–$T$ estimates (Fig. 4). Along hotter geotherms or in less depleted peridotites, the stability of spinel would be restricted to even lower $P$. This suggests that our mchr belonged to a more depleted, possibly dunitic and spinel-rich assemblage. The persistence of a Cr# ∼ 0.9 (namely, 0.86) in our mchr at 6.5 GPa further supports this hypothesis.

Compared with classical xenolith geothermobarometry, diamond elastic geothermobarometry has a considerable potential to yield ancient lithospheric thermal states, because diamonds can be very old, and their inclusions remain exceptionally preserved from chemical exchanges with surrounding minerals, fluids and melts even under dramatically changing physico-chemical conditions. With our unprecedented application of elastic geothermobarometry to a mchr inclusion in a gem-quality octahedral diamond from the Udachnaya kimberlite, we provided evidence that cold conditions corresponding to a ca. 35 mW/m² geotherm persisted for billions of years to a depth of at least 200 km in the Siberian craton lithosphere, and that at this depth the lithosphere was, at least locally, ultra-depleted.

**Methods**

**Samples.** We have studied two mchr samples: the first sample was a released crystal used to determine the EoS of mchr, while the second sample was still included within a diamond and was used to determine the depth of formation of the diamond–mchr host–inclusion pair using the thermoelastic properties determined on the first one. The first mchr, labeled Ac139, is a mchr single crystal with a size of $42 \times 25 \times 15$ μm$^3$ and high crystal quality, i.e. sharp diffraction profiles and absence of twinning and inclusions. It was extracted from a lithospheric diamond from the Aikhal kimberlite (Siberia, Russia) by crushing the diamond and then studied by in-situ high-pressure single-crystal X-ray diffraction. The second mchr, labeled MgCr2, was included in a gemstone octahedral diamond (longest dimension = 2.15 mm) from the Udachnaya kimberlite, Siberia, Russia (Fig. 1), and belongs to the same set of diamonds previously studied45,47. The MgCr2 inclusion was alone within its host and located in intermediate position between...
the gravimeter center and external surface of the diamond. Its morphology is nearly equant cube-octahedral, with an average crystal radius of 0.34 mm, and no optically visible fractures were observed. The mchr inclusion was extracted from its host by crushing the diamond only after a first set of in-situ X-ray analyses.

Electron microprobe analyses. Chemical analyses were carried out on sample Ac139 using a CAMECA SX50 electron microprobe (WDS mode, 20 kV, 20 nA, 2 μm beam diameter) at CNR-IGG of Padova. Standards used were Kakani pyrope (New Zealand) from the Smithsonian Museum (TAP analyser crystal, MgKα element emission line); Amelia albite (Virginia) (TAP, NaKα); diopside (TAP, SiKα); Al2O3 (TAP, AlKα); MnTiO3 (PET, TiKα); LIF, MnKα); Cr2O3 (TAP, CrKα); Fe2O3 (LIF, FeKα); sphalerite (LIF, ZnKα); NiO (LIF, NiKα). Raw data were reduced with the PAP-type correction software provided by CAMECA. The resulting oxides wt% are reported in Supplementary Table 1. Chemical analyses on sample MgCr2 were carried out by standardless EDS and equipped with a micro-source Mo radiation, working at 50 kV and 0.8 mA and with a sample-to-detector distance of 100 μm. The sample was loaded together with a single plate was mounted in wax to allow the analyses in transmission mode. We acquired different FTIR spectra over six different locations on the plate with an FTIR spot of about 100 μm, covering most of its area. The absorbance spectra were processed using DiaMap to obtain the N content and aggregation state. This program fits the individual N absorption band and deconvolutes the spectrum in the 1001 to 1350 cm⁻¹ range. Then, the concentrations of N impurities aggregated in pairs (A defects) and of N impurities aggregated in clusters plus vacancy (B defects) were calculated using literature absorption coefficients and depend on the quality of the FTIR spectra. The original FTIR spectra collected in these analyses are reported in the supplementary data (1 to 6), while the data on N content and aggregation state are reported in Supplementary Table 4. A representative FTIR spectrum for the diamond host of the sample MgCr2 (data from such spectrum are relative to Ud_4 in Supplementary Table 4) is shown in Fig. 2.

We used the constants from the literature (i.e. for each element α = Arrhenius constant) to calculate the residence temperature, Tres, as a function of time for the MgCr2 diamond. The age of our diamond is unknown, but previous geochronological work on Udachnaya diamonds suggested two major peaks of diamond formation, one at 3.1–3.5 Ga (Re-Os dating on sulphide inclusions) and one at ca. 2 Ga (Sm-Nd dating on garnet inclusions).

The calculations indicate a mantle residence temperature, Tres, of 1125(32) °C for the oldest age (3.5 Ga) and of 1140(33) °C for the youngest age (2 Ga). Uncertainties reported in parentheses (estimated standard deviations, esd) were calculated from the propagation of the uncertainties on the FTIR measurement and on constants taken from literature.

X-ray diffraction measurements. In-situ high-pressure single-crystal X-ray diffraction (SC-XRD) experiments were performed on mchr Ac139, in order to determine its thermoelastic properties and Pressure — Volume Equation of State. The crystal was loaded in an ETH-type diamond-anvil cell (DAC) equipped with Be-backing plates. We used a steel gasket pre-indented to a thickness of about 90 μm with a spark-eroded hole of 250 μm in diameter and a mixture of methanol:ethanol with ratio 4:1 to ensure hydrostatic pressures up to the maximum reached in this work (7.852 GPa) (it is well established that for such pressure values the mixture used behaves hydrostatically). The diameter of the diamond culet was 600 μm. The sample was loaded together with a single crystal of quartz used as an internal pressure standard. The unit-cell edge was measured on a four-circle STOE diffractometer equipped with a micro-source MoKα radiation, working at 50 kV and 0.8 mA and with a sample-to-detector distance of 68 mm, and a Pilatus 200 K Dectris detector. The diffractometer was installed at the Department of Geosciences, University of Padova. The unit-cell edges before and after the release from the diamond host were measured by collecting data up to 20 = 80°, using a thin slicing in ω of 0.1° (see values at the section Diamond residence temperature and depth of formation of the diamond-mchr pair).

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Author Contributions
F.N. conceived the study. G.Z. and M.L.M. analysed experimental data for Ac139 and determined its P-V-T EOS. They also determined the isomeke for MgCr2. P.N. wrote all sections on geothermobarometry. B.P. collected in-situ high-pressure data for Ac139. L.P. and A.L. collected FTIR data and characterized the diamond host using DIAMAP software. G.B.A., F.P., D.L. and L.S. reviewed the crystal chemistry of Ac139 and MgCr2 samples. A.M.L., N.V.S. and J.W.H. provided Ac139 and MgCr2 samples and reviewed the geology sections of the manuscript. All authors reviewed the manuscript.

Additional Information
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