# Article information:

Fate of gold and base metals during metamorphic devolatilization of a pelite - ScienceDirect  
<https://www-sciencedirect-com-443.webvpn.ecut.edu.cn/science/article/pii/S0016703715005426?via%3Dihub=>

# Article summary:

1. Scavenging of gold during metamorphic devolatilization is a widely accepted model for fluid and metal sourcing in orogenic gold deposits.

2. Chlorite dehydration is the most important process in metal extraction, with up to 2 ppb Au, 1.5 ppm Cu, 1 ppm Pb and 2 ppm Zn (as proportions of bulk rock) being extracted from a pelite by autogenous fluids upon crossing the greenschist–amphibolite facies boundary.

3. Prograde metamorphism is an efficient mechanism for generating Au-bearing ore fluids: most Au can be extracted during chlorite dehydration from a source rock of average pelitic composition.

# Article rating:

Appears moderately imbalanced: The article provides some useful information, but is missing several important points or pieces of evidence that would be required to present the discussed topics in a balanced and reliable way. You are encouraged to seek a more balanced perspective on the presented issues by exploring the provided research topics and looking at different information sources.

# Article analysis:

作为一篇科学论文，该文章并没有明显的偏见或宣传内容。然而，它可能存在一些片面报道和缺失的考虑点。

首先，文章主要关注金属在岩石变质过程中的释放和迁移，但并未探讨其他可能影响成矿作用的因素，如地球化学背景、构造环境等。这可能导致对成矿作用机制的理解不够全面。

其次，在讨论金属释放机制时，文章强调了黄铁矿向辉铁矿转化过程中金属的释放，但并未提及其他可能影响金属迁移的因素，如流体运移、沉淀等。这可能导致对成矿作用机制的理解不够全面。

此外，在讨论金属释放量时，文章只给出了一些数量级上的估计，并未提供更具体和可靠的数据支持。这可能导致对成矿作用机制和资源评估的准确性有所影响。

最后，在讨论成矿作用机制时，文章没有平等地呈现其他可能存在的观点或证据，并且也没有探索反驳这些观点或证据的可能性。这可能导致对成矿作用机制的理解不够全面和客观。

综上所述，虽然该文章并没有明显的偏见或宣传内容，但在讨论成矿作用机制时存在一些片面报道和缺失的考虑点。为了更全面地理解成矿作用机制，需要进一步探索其他可能影响成矿作用的因素，并提供更具体和可靠的数据支持。同时，也需要平等地呈现其他可能存在的观点或证据，并探索反驳这些观点或证据的可能性。

# Topics for further research:

* Other factors affecting mineralization mechanisms
* Fluid transport and precipitation
* Geochemical background and tectonic environment
* Specific and reliable data support
* Alternative viewpoints and evidence
* Refuting opposing viewpoints and evidence

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