

PCA plot showing the first two principal components (PC1 and PC2) of the data. The x-axis is PC1 (61.74%) and the y-axis is PC2 (20.12%). The plot displays two distinct clusters of data points: a green cluster on the left (negative PC1 values) and a purple cluster on the right (positive PC1 values). Vectors (arrows) represent the loadings of various variables on the principal components. Variables like b , c , x , and Hg are labeled in red, while others like b , c , x , and Hg are labeled in blue. The green cluster is associated with higher values of b , c , x , and Hg , while the purple cluster is associated with higher values of b , c , x , and Hg .

A PCA plot showing the first two principal components, PC1 (85.71%) on the x-axis and PC2 (12.91%) on the y-axis. The plot displays two distinct clusters of data points: a green cluster on the left and a purple cluster on the right. Three vectors are shown: a red vector labeled 'a_col' pointing towards the green cluster, and two blue vectors labeled 'Co' and 'Fe' pointing towards the purple cluster. The green cluster is centered around PC1 = -0.2 and PC2 = 0.0, while the purple cluster is centered around PC1 = 0.2 and PC2 = -0.1.

PCA plot showing the first two principal components (PC1 and PC2) of the data. The x-axis is PC1 (96.04%) and the y-axis is PC2 (3.58%). The plot displays two distinct clusters of elements, each enclosed by an ellipse. The left cluster (green) contains elements like Fe, Ni, and Cu. The right cluster (purple) contains elements like Bi, U, and Pb. Blue lines connect the two clusters, indicating relationships between elements.

