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ABSTRACT

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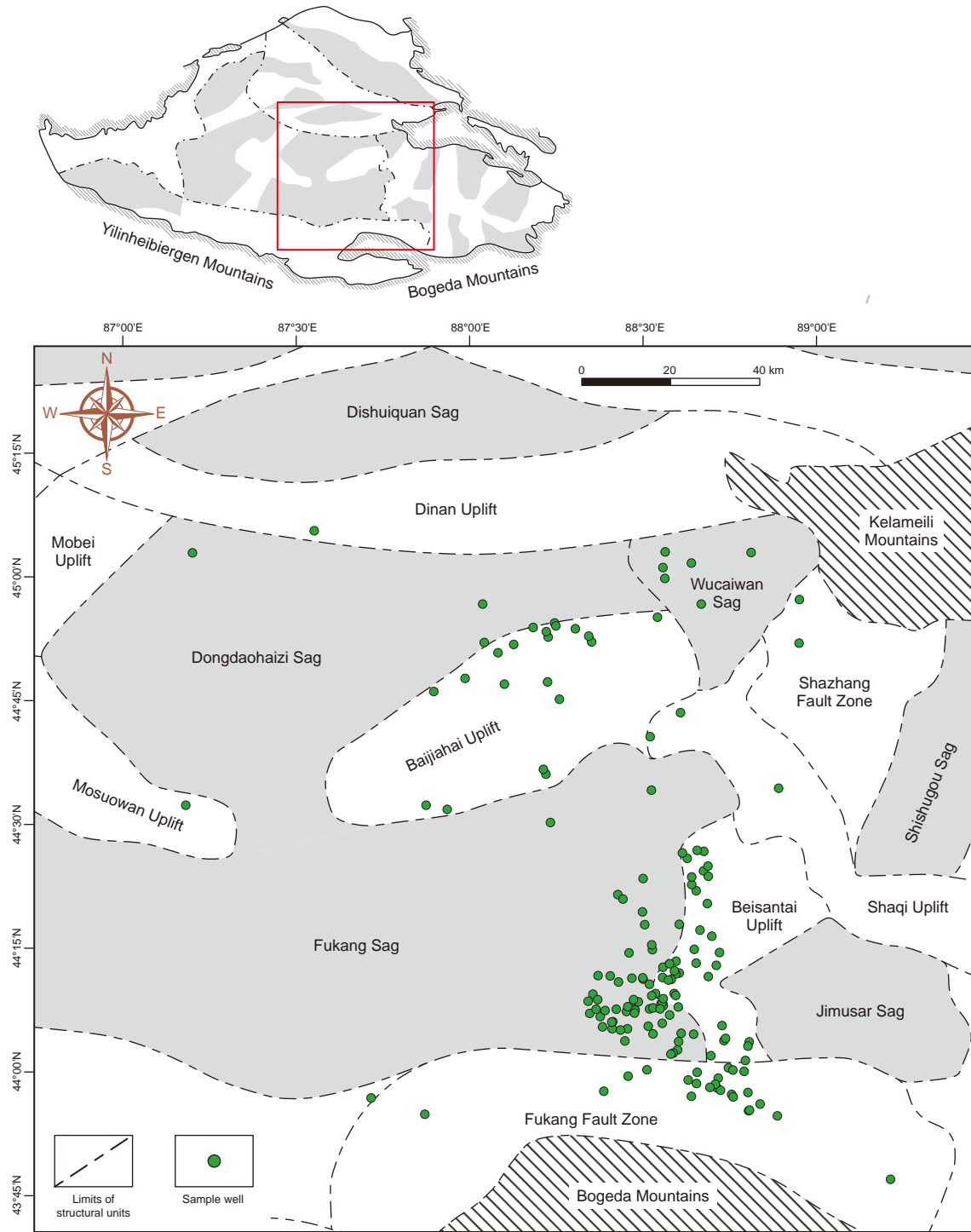
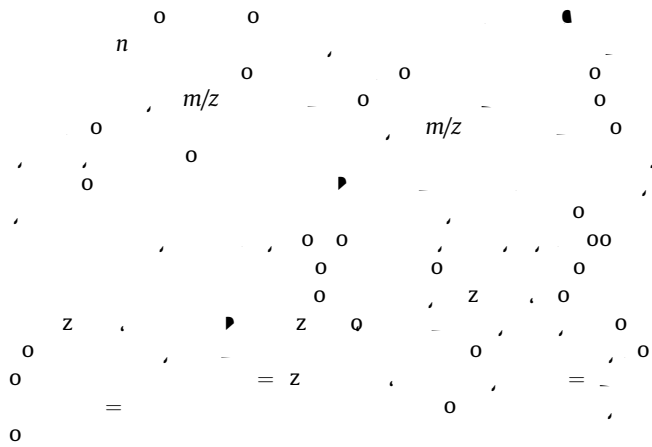


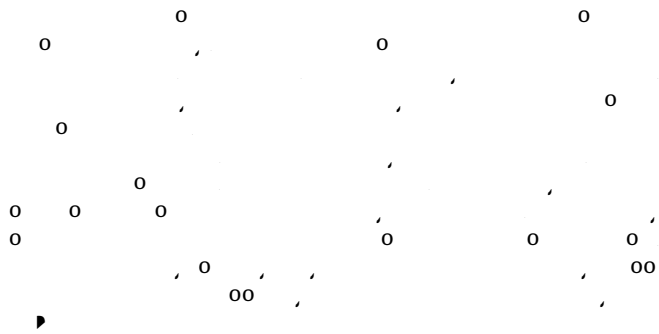
Fig. 1.

3.2. Machine learning analysis



4. Results and discussion

4.1. Dimensionality reduction of molecular compositions in hydrocarbons



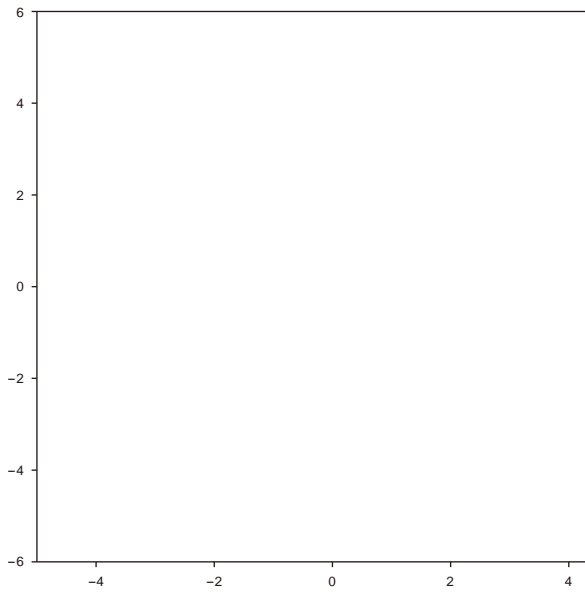
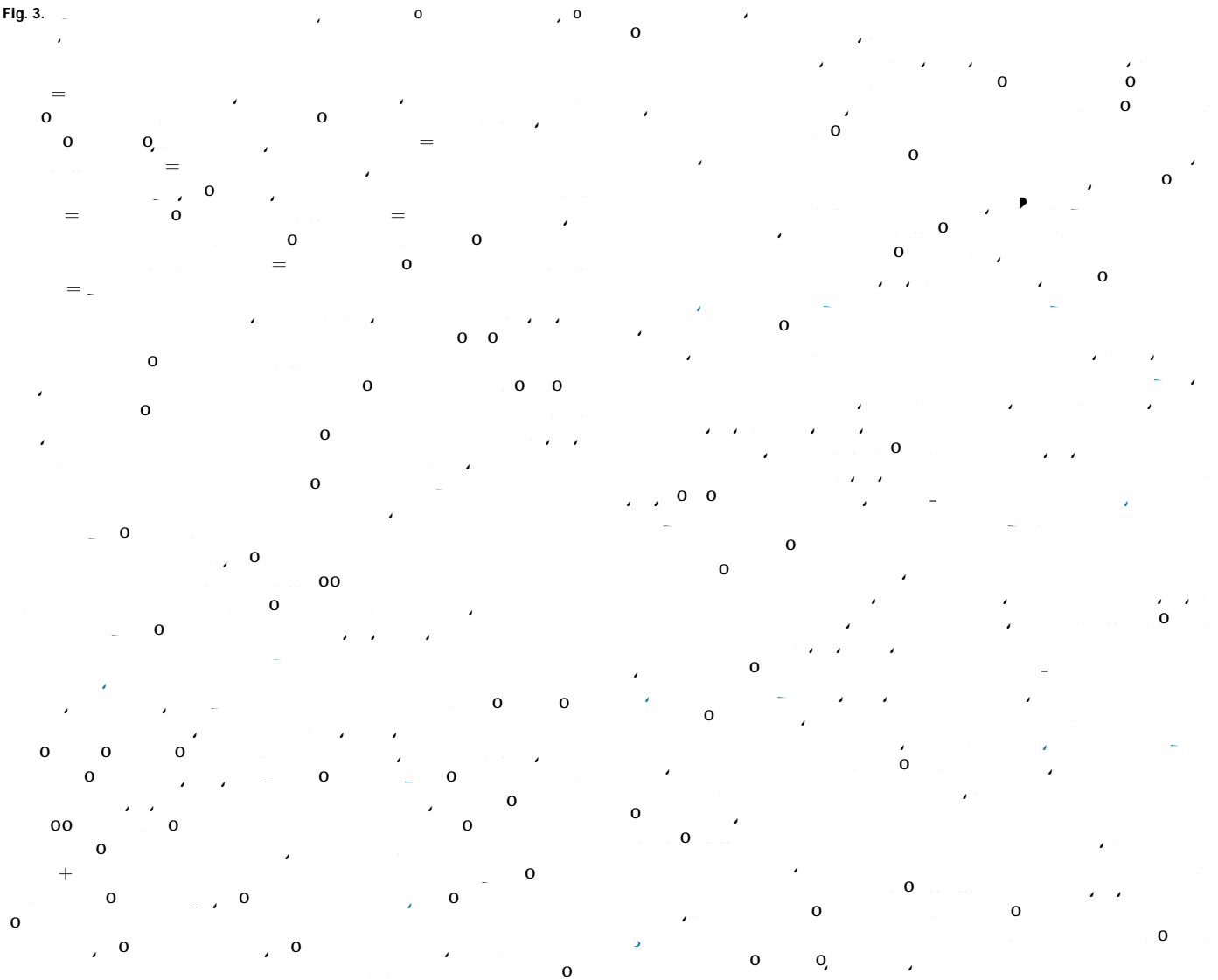
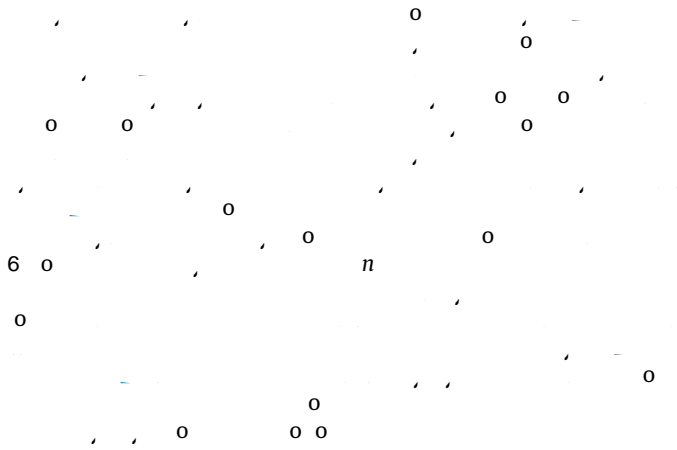


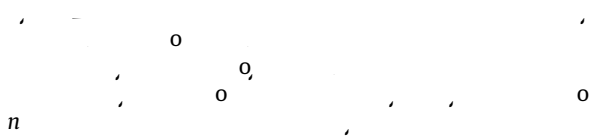
Fig. 3.



4.2.2. Mixing effect









4.2.3. Biodegradation






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


CRediT authorship contribution statement

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&  Yu-Ce Wang: 
Wan-Yun Ma: 

Declaration of competing interest

Acknowledgements

Appendix A. Supplementary data

References

