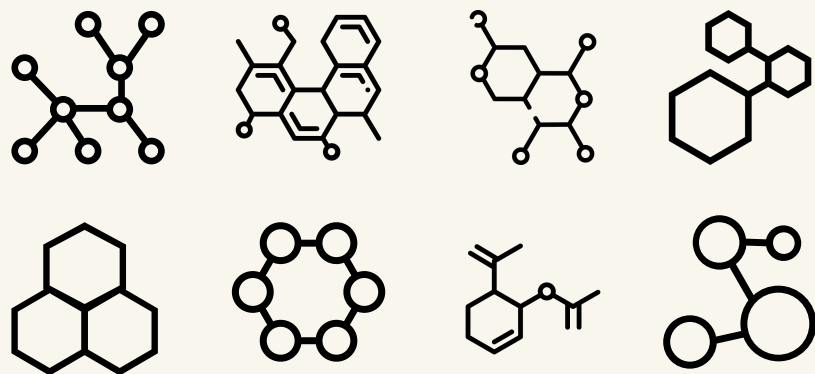


Property-based Pre-selection

query property s^*

$$d_j = |s_j - s^*|$$

Candidate Pool

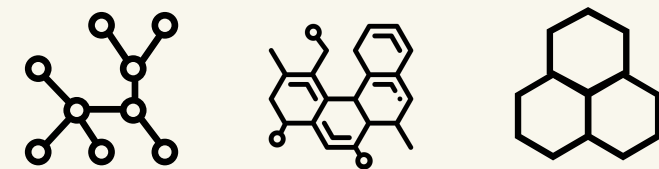


Hybrid Property-Structure Filtering

Property Similarity

$$|s_j - s^*|$$

Top-k Candidates



Prefix

[COND_START]
[ELEM_FREQ]
[D_PEAK]
[RAG_END]

Structure Similarity

$$[\text{hist}_{\text{elem}}(\mathcal{G}_j), \text{hist}_d(\mathcal{G}_j)]$$

Pre-training

Property-aware Reinforcement Learning

Policy Mamba

O_1
 O_2
...
 O_G

EGNN Reward

R_1
 R_2
 R_3
...
 R_G

Group Computation

A_1
 A_2
 A_3
 A_4
...
 A_G

Refer Mamba

O_1'
...
 O_G'