

Supporting Information

State-of-the-art applications of machine learning in the life cycle

of solid waste management

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Table S1 Top 5 productive journals in the publication of machine learning and solid wastes during 2001-2021

Rank according to TP	Journal name	TP	%	JCR Rank in WoS ^a	IF2020 ^a
1	WASTE MANAGEMENT	50	16.23	Q1	7.145
2	JOURNAL OF CLEANER PRODUCTION	36	11.69	Q1	9.297
3	ENERGY CONVERSION AND MANAGEMENT	21	6.82	Q1	9.709
4	WASTE MANAGEMENT & RESEARCH	16	5.19	Q3	3.549
5	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	15	4.87	Q3	3.447

TP: The total number of publications; %: Ratio of publications of one journal to the total number of publications;

JCR: Journal citation reports; WoS: Web of Science; IF: Impact Factor.

^adata source: <https://jcr.clarivate.com/JCRJournalHomeAction.action>.

Table S2 Keywords clusters results by VOSviewer

Cluster color	Research topics	Top three keywords with the highest occurrence
Red	SW categories & ML algorithms & SW characteristic & Energy utilization	Municipal solid waste, artificial neural network, support vector machine
Green	ML algorithms & Energy utilization	Genetic algorithm, optimization, solid waste
Blue	ML algorithms	Machine learning, neural network, forecast
Yellow	Waste management	Recycling, waste management, life cycle assessment

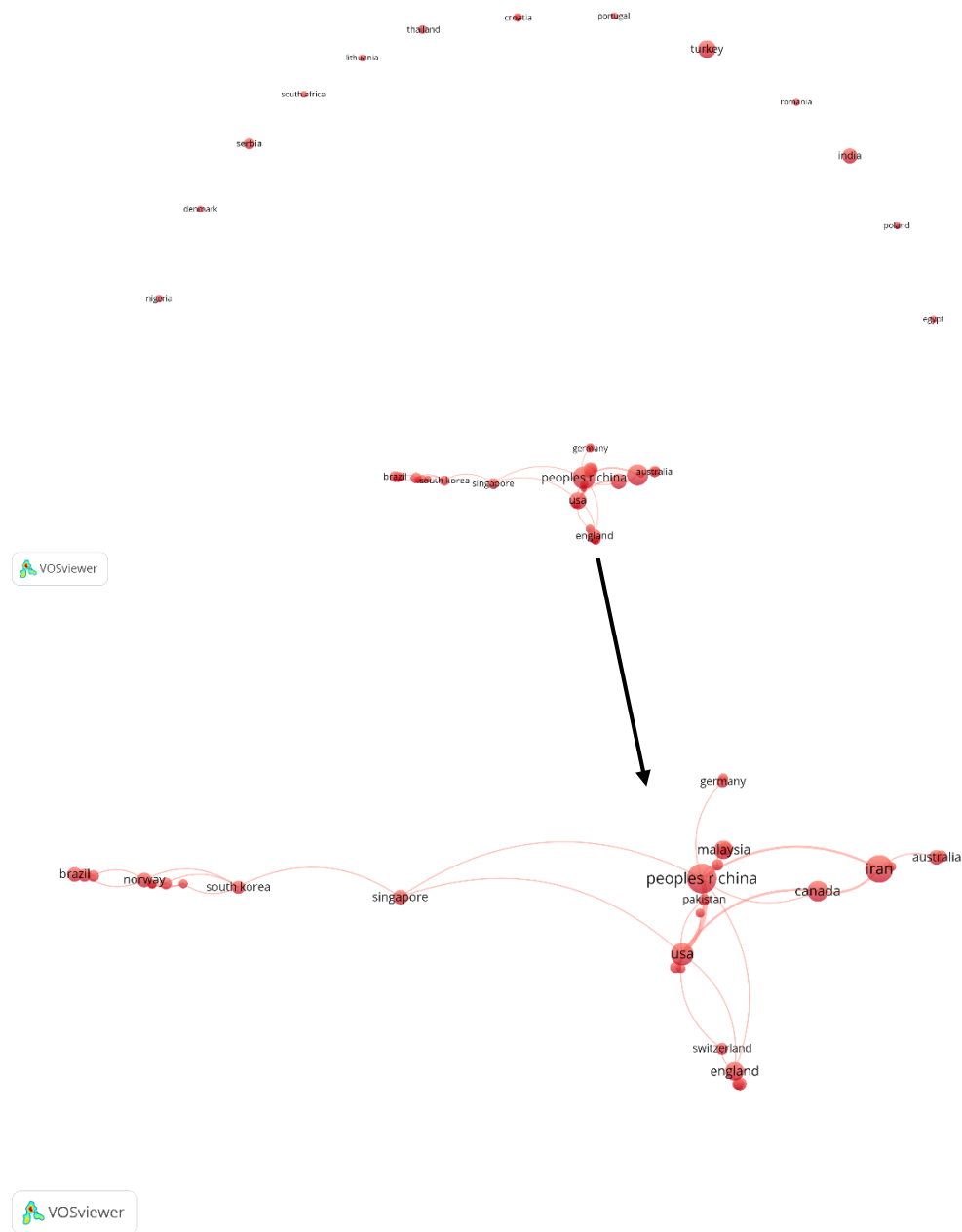
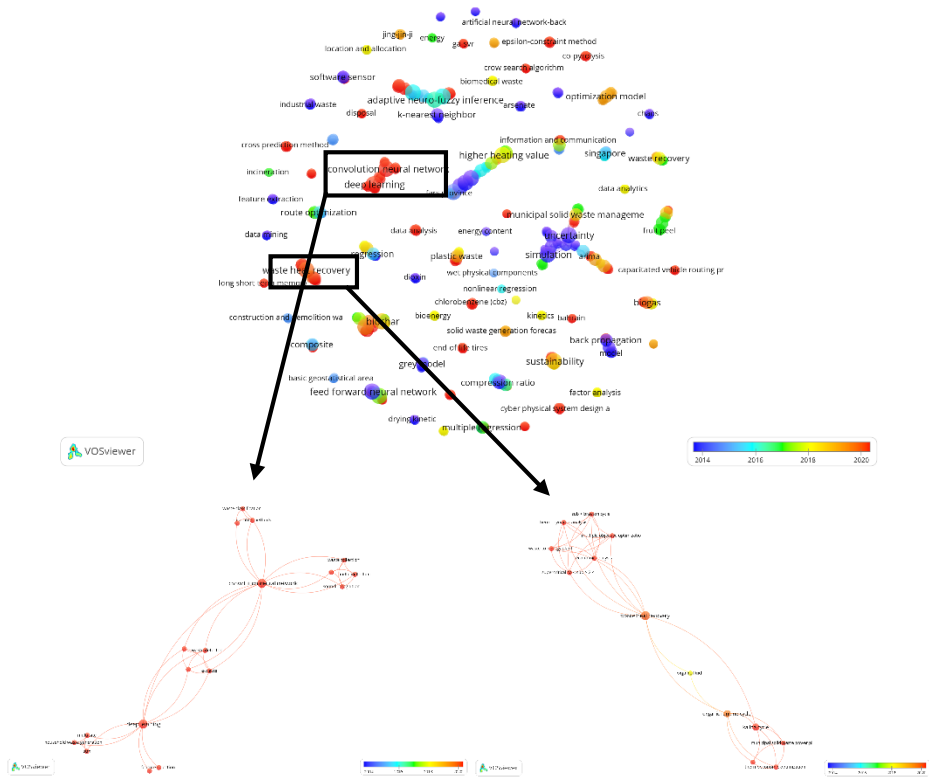


Fig. S1 Network diagram of analysis co-occurrence of countries (The nodes represent different countries. The larger the node, the higher articles this country published. The connection of nodes reflects the cooperative relationship between countries. If the connection line was thicker, the cooperation of these two countries was more frequent.)

1



2

3

Fig. S3 Overly Visualization of author keywords co-occurrence (1-3)