SUPPLEMENTARY MATERIALS

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Table S2: The 15 most productive journals sorted by h-index.
Table S3: The 15 most productive institutions sorted by h-index.

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Figure S2: (A) Lotka's Law to calculate the correlation of the number of authors with the number of publications; (B) Lotka's Law to calculate the correlation of the journals number with the number of publications; (C) Lotka's Law to calculate the correlation of the institutions number with the number of publications.

Figure S3: Bradford's law: Journal rank (on a logarithmic scale) versus cumulative articles.

Figure S4: Top 6 productive Web of Science categories from 2015 to 2023.

Figure S5: Collaboration network for countries.

Table S1. The 20 most productive authors sorted by h-index.

Ranking	h-index	Author	Citations	Publications	Affiliation	Country
1	10	Singh, Pardeep	861	10	Shoolini University	India
2	9	Zeng, Guangming	1251	10	Hunan University	China
3	9	Li, Ling	486	10	Hunan Agricultural University	China
4	8	Raizada, Pankaj	825	8	Shoolini University	India
5	8	Liu, Wen	646	8	Peking University	China
6	8	Naushad, Mu	540	8	King Saud University	Saudi Arabia
7	7	Chen, Ping	426	9	Guangdong University of Technology	China
8	7	Liu, Guoguang	423	9	Guangdong University of Technology	China
9	7	Liu, Haijin	423	9	Henan Normal University	China
10	7	Deng, Yaocheng	605	8	Hunan Agricultural University	China
11	7	Yuan, Xingzhong	668	7	Hunan University	China
12	6	Lv, Wenying	299	8	Guangdong University of Technology	China
13	6	Liu, Haijin	299	8	Henan Normal University	China
14	6	Wang, Jiajia	225	7	Hunan University	China
15	6	Lai, Cui	627	6	Hunan University	China
16	6	Hosseini-Bandegharaei, Ahmad	587	6	Semnan University	Iran
17	6	Sharma, Gaurav	511	6	Shenzhen University	China
18	6	Jiang, Longbo	465	6	Hunan University	China
19	6	Tong, Meiping	300	6	Peking University	China
20	5	Zhang, Qianxin	374	5	Guangdong University of Technology	China

Table S2. The 15 most productive journals, sorted according to their h-index (JCR 2023).

h-index	Journal (ISO)	Publisher/Country/ISSN	Citations	Articles	IF 2023	WoS Category	JIF Quartile
55	*Chem. Eng. J.*	Elsevier/Switzerland/1385-8947	8588	113	13.4	Engineering, Chemical/Environmental, Chemical	Q1/Q1
33	*J. Hazard. Mater.*	Elsevier/Netherlands/0304-3894	2919	44	12.2	Environmental Sciences/Engineering Environmental	Q1/Q1
31	*Chemosphere*	Elsevier/England/0045-6535	2456	69	8.1	Environmental Sciences	Q1
19	*J. Colloid Interface Sci.*	Elsevier/USA/0021-9797	1394	21	9.4	Chemistry, Physical	Q1
19	*Environ. Res.*	Elsevier/USA/0013-9351	1180	38	7.7	Environmental Sciences/Public, Environmental & Occupational Health	Q1/Q1
18	*J. Environ. Chem. Eng.*	Elsevier/England/2213-2929	1558	33	7.4	Engineering, Chemical/Environmental, Chemical	Q1/Q1
14	*Environ. Sci. Pollut. Res.**	Springer/Germany/0944-1344	410	29	-	Environmental Sciences	-
13	*Sci. Total Environ.*	Elsevier/Netherlands/0048-9697	607	17	8.2	Environmental Sciences	Q1
11	*Environ. Sci.-Nano*	Royal Soc. Chemistry/England/2051-8153	583	15	5.8	Environmental Sciences/Nanoscience & Nanotechnology/Chemistry, Multidisciplinary	Q1/Q2/Q2
10	*Water Res.*	Elsevier/England/0043-1354	1048	12	11.5	Environmental sciences/Water resources/Engineering, environmental	Q1/Q1/Q1
10	*J. Environ. Manag.*	Elsevier/England/0301-4797	595	14	8.0	Environmental Sciences	Q1
8	*Environ. Pollut.*	Elsevier/England/0269-7491	176	9	7.6	Environmental Sciences	Q1

8	*J. Clean. Prod.*	Elsevier/USA/0959-6526	399	9	9.8	Environmental Sciences/Engineering, Environmental/Green & Sustainable Science & Technology	Q1/Q1/Q1
7	*Process Saf. Environ. Prot.*	Elsevier/Netherlands/0957-5820	192	9	6,9	Engineering, Chemical/Engineering, environmental	Q1/Q1
6	*Catalysts*	MDPI/Switzerland/NA	159	12	3.8	Chemistry, Physical	Q2

* Information for this journal using Journal Impact Factor (JIF) is not available due to anomalous citation patterns found in the 2023 citation data.

Table S3. The 15 most productive institutions sorted by h-index.

h-index	Unit	All citations	All articles	Country
24	Hunan Univ	2428	33	China
15	Shoolini Univ	1390	17	India
14	Chinese Acad Sci	1166	19	China
13	Guangdong Univ Technol	771	18	China
12	King Saud Univ	767	17	Saudi Arabia
12	Hohai Univ	955	16	China
10	Peking Univ	706	10	China
9	Tongji Univ	689	12	China
9	Hunan Agr Univ	811	11	China
9	Harbin Inst Technol	675	11	China
9	Tsinghua Univ	599	10	China
9	Chongqing Univ	359	10	China
8	Henan Normal Univ	468	14	China
8	Sun Yat Sen Univ	647	11	China
8	SRM Inst Sci & Technol	379	11	India

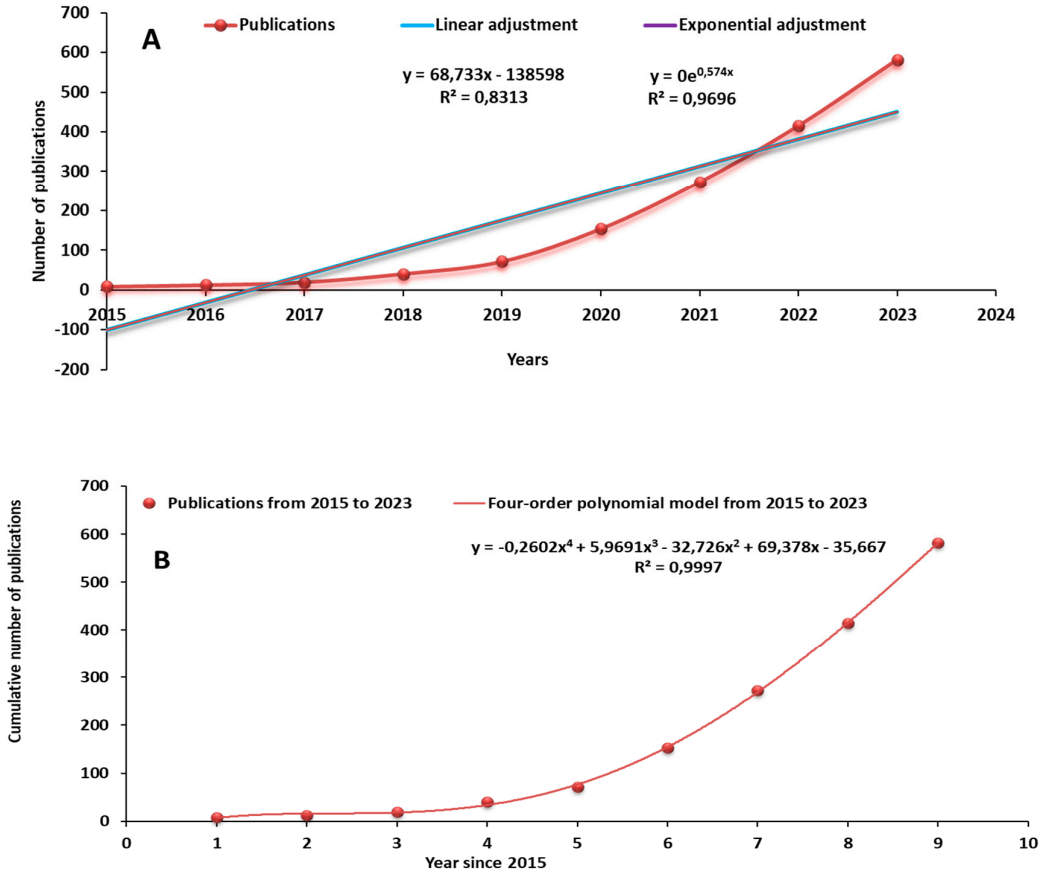


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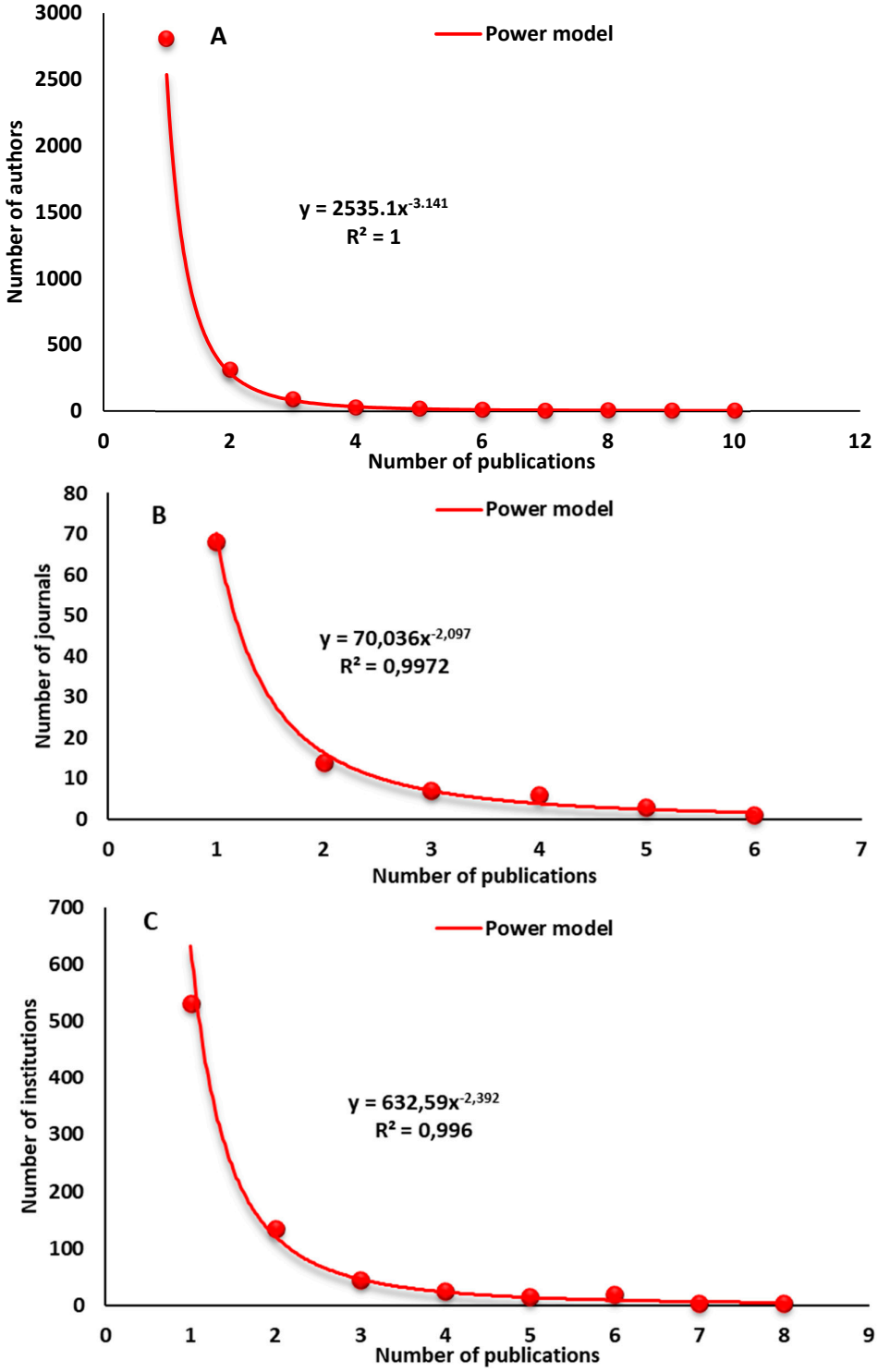


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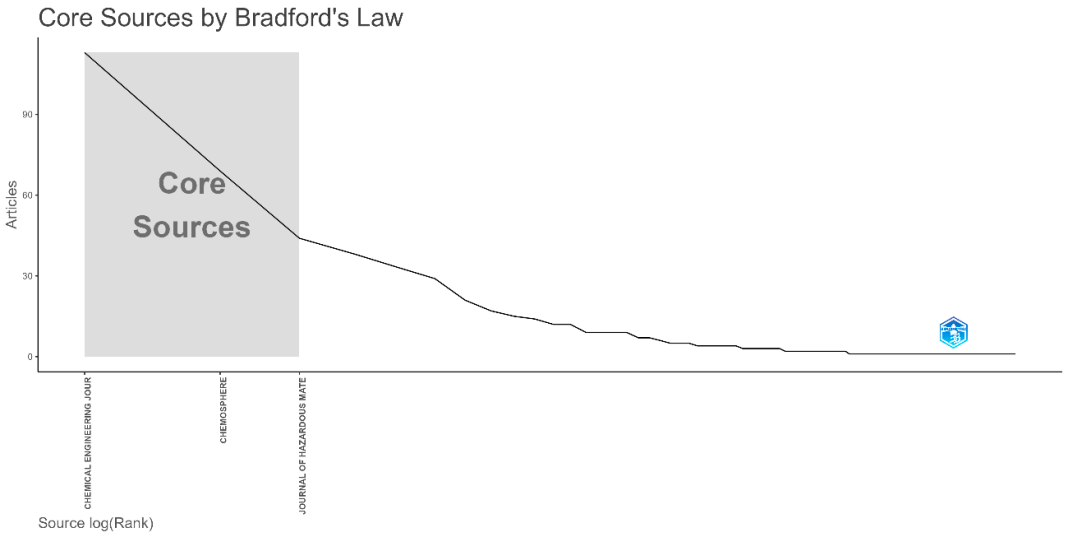


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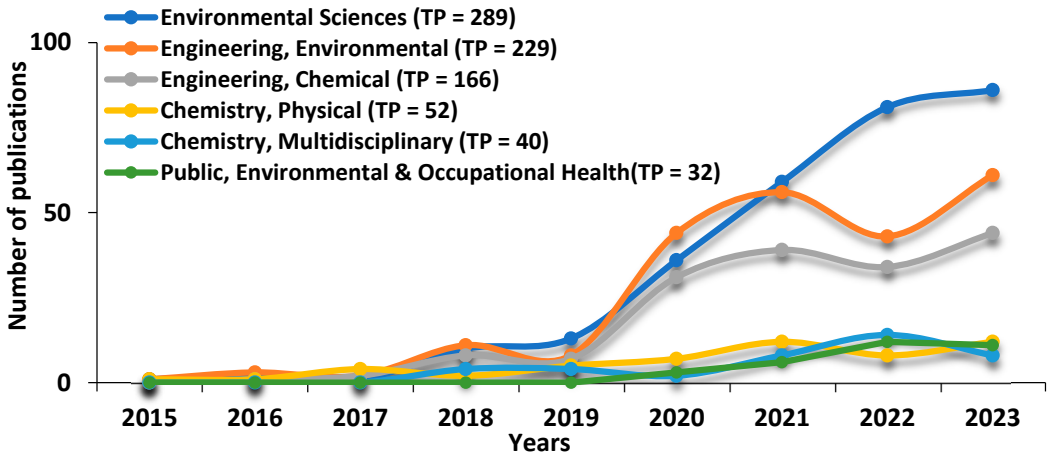


Figure S4. Top 6 productive Web of Science categories from 2015 to 2023.

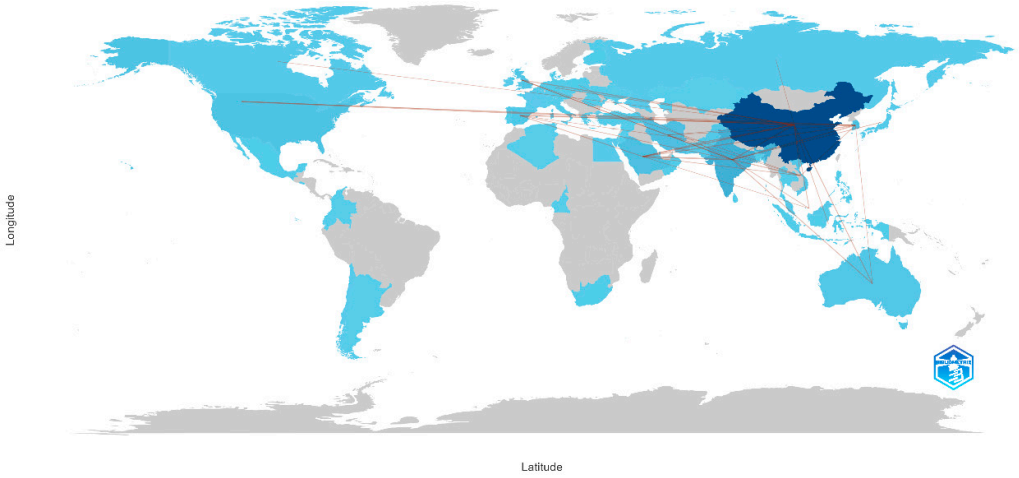


Figure S5. Collaboration network for countries.