

Appendix

Table S1. Showing the details of the top 20 co-citation journals

Journal	Citations	Link Strength	Country	Continent	Open access
Journal of Hydrology	38324	1722393	Netherlands	Europe	No
Water Resources Research	31457	1536465	US	N.America	No
Hydrological Processes	26838	1303537	England	Europe	No
Forest Ecology and Management	15300	727664	Netherlands	Europe	No
Science of the Total Environment	12213	647332	Netherlands	Europe	No
Science	10228	538474	US	N.America	No
Catena	10187	490885	Netherlands	Europe	No
Biogeochemistry	10125	523906	Netherlands	Europe	No
Ecology	9735	478577	US	N.America	No
Hydrology and Earth System Sciences	9276	521831	Germany	Europe	Yes
Nature	8786	487184	England	Europe	No
Remote Sensing of Environment	8454	389067	US	N.America	No
Soil Science Society of America Journal	8269	376069	US	N.America	No
Global Change Biology	8094	492150	England	Europe	No
Ecological Applications	7478	383309	US	N.America	No
Environmental Science & Technology	7439	386527	US	N.America	No
Agricultural and Forest Meteorology	7059	386207	Netherlands	Europe	No
Geoderma	6738	334833	Netherlands	Europe	No
Journal of Environmental Quality	6552	273006	US	N.America	No
Geomorphology	6427	332250	Netherlands	Europe	No

*Open access/hybrid status and country of journals were documented from letpub.com.

Table S2. Showing the detailed list of the top 20 research-productive countries

Rank	Country	Continent	Frequency	Link strength
1	US	N.America	7805	3624
2	PR China	Asia	2440	1463
3	Canada	N.America	1756	1268
4	Germany	Europe	1008	1523
5	Australia	Oceania	893	977
6	Brazil	S.America	842	667
7	Japan	Asia	710	593
8	England	Europe	670	1244
9	Spain	Europe	667	781
10	France	Europe	655	1002
11	India	Asia	486	429
12	Netherlands	Europe	439	863
13	Sweden	Europe	421	663
14	Italy	Europe	358	562
15	Iran	Asia	353	509
16	Switzerland	Europe	335	682
17	South Korea	Asia	302	275
18	Russia	Europe	249	213
19	Finland	Europe	237	325
20	Portugal	Europe	231	275

Table S3. Showing the detail list of top 20 institutions with higher research productivity

Rank	Organization	Frequency	Link Strength	Country	Continent	Status	Source
1	Chinese Academy Science	915	489	China	Asia	Public	Google.com
2	US Forest Service	791	665	US	N.America	Public	Google.com
3	US Geological Survey	680	460	US	N.America	Public	Google.com
4	Oregon State University	333	276	US	N.America	Public	Google.com
5	University of Chinese Academy Science	294	322	China	Asia	Public	Google.com
6	University British Columbia	233	81	Canada	N.America	Public	Google.com
7	Beijing Normal University	214	112	China	Asia	Public	Google.com
8	US Environmental Protection Agency	208	171	US	N.America	Public	Google.com
9	Cornell University	200	200	US	N.America	Private	Google.com
10	USDA Agricultural Research Service (ARS)	200	147	US	N.America	Public	Google.com
11	University of California, Berkeley	194	140	US	N.America	Public	Google.com
12	University of Georgia	192	145	US	N.America	Public	Google.com
13	Colorado State University	191	156	US	N.America	Public	Google.com
14	University Alberta	180	80	Canada	N.America	Public	Google.com
15	University Maryland	177	152	US	N.America	Public	Google.com
16	University New Hampshire	175	185	US	N.America	Public	Google.com
17	University Washington	174	68	US	N.America	Public	Google.com
18	University Minnesota	173	155	US	N.America	Public	Google.com
19	University Colorado	169	169	US	N.America	Public	Google.com
20	Swedish University of Agricultural Sciences	166	33	Sweden	Europe	Public	Google.com

*The public or private status of institutions was collected from Google.com.

Table S4. Showing the detailed list of the top 20 productive authors

Rank	Author	Frequency	Institution	Country	Rank	Author	Frequency	Institution	Country
1	Charles T Driscoll	66	Syracuse University, US	US	11	James M Vose	38	North Carolina State University, US	US
2	Ge Sun	65	United States Department of Agriculture Forest Services, US	US	12	John L Campbell	36	US Forest Service, US	US
3	Hjalmar Laudon	62	Department of Forest Ecology and Management, Swedish University of Agricultural Sciences, Umeå, Sweden	Sweden	13	Takashi Gomi	35	Nagoya University, Japan	Japan
4	James B Shanley	52	U.S. Geological Survey, US	US	14	Jeffrey J McDonnell	35	University of Saskatchewan, Saskatoon, SK, Canada	Canada
5	Peter M Groffman	48	University of Georgia, US	US	15	Timothy J Fahey	32	Cornell University, US	US
6	Xiaohua Wei	45	University of British Columbia Okanagan, Kelowna, British Columbia, Canada	Canada	16	Kyoichi Otsuki	31	Kyushu University, Japan	Japan
7	Patrick NJ Lane	42	University of Melbourne, Australia	Australia	17	Kevin D Bladon	30	Oregon State University, US	US
8	Yuichi Onda	42	University of Tsukuba, Japan	Japan	18	Ivan J Fernandez	30	University of Maine, US	US
9	Kevin Bishop	40	Swedish University of Agricultural Science, Sweden	Sweden	19	Gary J Sheridan	30	University of Melbourne, Australia	Australia
10	William H McDowell	38	University of New Hampshire, US	US	20	C Rhett Jackson	28	University of Georgia, US	US

*Detail about the author's institutions and countries was recorded from their university profiles or other sources such as Google Scholar, research gate etc