

Table S1 Publication and citation profiles of leading countries

Country	Articles	Freq (%)	SCP	MCP	MCP Ratio	TP	TP Rank	TC	TC Rank	Avg. Citations
USA	420	25.7	317	103	0.245	1551	2	20221	1	48.1
China	170	10.4	152	18	0.106	498	5	1200	9	7.1
Japan	162	9.9	144	18	0.111	765	3	3408	3	21.0
Germany	99	6.0	61	38	0.384	523	4	3930	2	39.7
Italy	82	5.0	54	28	0.341	448	6	2010	7	24.5
United Kingdom	65	4.0	47	18	0.277	306	8	2669	5	41.1
Australia	55	3.4	32	23	0.418	245	9	1855	8	33.7
France	50	3.1	30	20	0.400	310	7	3229	4	64.6
Canada	32	2.0	17	15	0.469	179	11	814	10	25.4
Spain	29	1.8	26	3	0.103	189	10	642	11	22.1
South Korea	26	1.6	23	3	0.115	120	13	275	16	10.6
Turkey	24	1.5	21	3	0.125	75	17	177	19	7.4
Netherlands	20	1.2	13	7	0.350	122	12	574	12	28.7
Finland	17	1.0	8	9	0.529	118	14	2596	6	152.7
India	17	1.0	17	0	0.000	46	24	125	23	7.4
Cyprus	16	1.0	6	10	0.625	81	16	551	13	34.4
Belgium	15	0.9	14	1	0.067	102	15	373	15	24.9
Israel	12	0.7	9	3	0.250	58	21	172	20	14.3
Brazil	11	0.7	8	3	0.273	24	30	71	26	6.5
Sweden	10	0.6	4	6	0.600	64	19	470	14	47.0

SCP, Single Country Publications; MCP, Multiple Country Publications; TP, Total Publications (all document types); TC, Total Citations; Freq, Percentage of all articles; Avg. Citations, TC/Articles.

Table S2 Publication and Citation Profiles of Leading Institutions

Institution	NP	TC	TLS	AC	h_index	PY_start
univ minnesota	72	5182	114	71.97	11	1987
harvard univ	49	4528	111	92.41	61	1979
shigei med res inst	58	3155	106	54.4	1	1996
okayama univ	50	3433	92	68.66	33	1992
vanderbilt univ	40	1731	83	43.27	30	1991
kobe univ	52	1115	67	21.44	24	1994
washington univ	52	3881	66	74.63	1	1996
karolinska inst	24	3058	59	127.42	1	1990
beth israel deaconess med ctr	22	1843	54	83.77	29	1999
univ utah	30	2464	52	82.13	7	1983
boys town natl res hosp	27	1546	44	57.26	2	1996
univ michigan	27	1569	41	58.11	2	1980
childrens hosp	13	561	36	43.15	3	1981
hannover med sch	10	503	34	50.3	9	1992
peking univ	34	856	27	25.18	20	2002
yale univ	16	1589	25	99.31	28	1991
univ erlangen nurnberg	11	1391	24	126.45	1	1992
harvard med sch	13	187	22	14.38	37	1979
univ helsinki	13	2212	18	170.15	2	1989
guys hosp	8	640	17	80	2	1983

NP, number of publications; TC, total citations; TLS, total link strength; AC, average citations per publication; h-index, Hirsch index; PY_start, year of first publication.

Table S3 Publication and citation profiles of high-impact authors

Author	h-index	g-index	m-index	PY_start	TP	TP_Frac	TP Rank	TC	TC Rank
TRYGGVASON K	30	41	0.83	1990	41	9.03	4	5750	1
SADO Y	27	46	0.68	1986	46	5.81	2	2834	5
ANTIGNAC C	26	31	0.77	1992	31	4.10	8	3383	2
NINOMIYA Y	26	37	0.77	1992	37	4.89	6	2930	3
ZHOU J	24	30	0.67	1990	30	4.47	10	2640	7
GUBLER MC	23	28	0.52	1982	28	3.22	12	2843	4
HUDSON BG	23	26	0.66	1991	26	4.61	14	2155	10
KALLURI R	23	26	0.66	1991	26	4.73	15	2433	8
KASHTAN CE	22	29	0.56	1987	29	8.11	11	2684	6
GROSS OLIVER	21	42	1.05	2006	46	6.52	1	1786	11
MINER JEFFREY H.	21	30	1.05	2006	30	5.33	9	1224	19
RENIERI A	18	26	0.56	1994	26	2.50	16	1779	12
HEIDET L	17	19	0.55	1995	19	2.17	23	1228	18
IIJIMA KAZUMOTO	17	29	0.85	2006	39	3.13	5	878	27
NOZU KANDAI	17	29	0.85	2006	45	3.85	3	878	27
NAITO I	16	24	0.52	1995	24	2.80	19	1248	17
SAVIGE JUDY	16	26	0.84	2007	26	4.10	17	1004	23
GRUNFELD JP	15	16	0.28	1972	16	2.13	26	1064	20
KAITO HIROSHI	15	25	0.75	2006	25	1.91	18	667	34
MORISADA NAOYA	15	16	1.07	2012	16	1.04	29	570	36

h-index, Hirsch index; g-index, gives more weight to highly cited papers; m-index, h-index divided by years since first publication; TP, Total Publications; TP_Frac, Fractionalized TP (author's share); TP Rank, Rank by TP; TC, Total Citations; TC Rank, Rank by TC; PY_start, Year of first publication.

Table S4 Bibliometric indicators of high-impact journals

Journal	h-index	g-index	m-index	TP	TP Rank	TC	TC Rank	PY_start	IF 2023	JCR 2023
Kidney International	48	74	1.021	104	1	4655	1	1979	14.8	Q1
Journal of the American Society of Nephrology	39	63	1.219	63	4	3006	2	1994	10.3	Q1
Journal of Biological Chemistry	31	44	0.721	44	5	2536	3	1983	4.0	Q2
Nephrology Dialysis Transplantation	26	44	0.703	77	3	1506	4	1989	4.8	Q1
Pediatric Nephrology	26	34	0.667	86	2	1295	5	1987	2.6	Q2
American Journal of Pathology	21	26	0.389	26	8	905	9	1972	4.7	Q1
American Journal of Human Genetics	17	17	0.395	17	16	1244	6	1983	8.1	Q1
Clinical Journal of the American Society of Nephrology	15	19	0.938	19	13	559	18	2010	8.5	Q1
American Journal of Kidney Diseases	14	24	0.359	28	7	698	14	1987	9.4	Q1
Genomics	14	17	0.378	17	17	575	15	1989	3.4	Q2
Clinical Nephrology	12	23	0.231	26	9	470	20	1974	1.1	Q3
Human Mutation	12	16	0.375	16	18	560	17	1994	3.3	Q2
Journal of Clinical Investigation	12	12	0.308	12	23	950	7	1987	13.3	Q1
Nephron	12	19	0.231	30	6	316	29	1974	2.3	Q2
PLOS ONE	12	20	0.857	20	11	365	24	2012	2.9	Q1
Scientific Reports	12	18	1.200	26	10	194	40	2016	3.8	Q1
Clinical Genetics	10	18	0.213	18	14	292	31	1979	2.9	Q2
Journal of Medical Genetics	10	14	0.189	14	21	373	23	1973	3.5	Q2
Laboratory Investigation	10	11	0.185	11	27	563	16	1972	1.3	Q4
Matrix Biology	10	10	0.357	10	32	219	37	1998	4.5	Q2

h-index, Hirsch index; g-index, as above; m-index, h-index/years since first publication; TP, Total Publications; TP Rank, Rank by TP; TC, Total Citations; TC Rank, Rank by TC; PY_start, Year of first publication; IF, Impact Factor (2023); JCR, Journal Citation Reports Quartile (2023).

Table S5 Top 20 co-occurrence keywords

Keyword	Occurrences	Total Link Strength
identification	330	1608
iv collagen	290	1370
mutations	284	1232
natural-history	160	854
gene	175	683
genotype-phenotype correlations	116	656
disease	141	540
195 families	96	528
chain	99	504
Alport syndrome	163	495
expression	127	493
Alport-syndrome	176	491
hereditary nephritis	94	475
renal-failure	86	468
glomerular-basement-membrane	98	463
basement-membrane collagen	72	378
localization	73	373
X-chromosome	66	346
nephropathy	81	311
mouse model	71	296

Occurrences = Number of times the keyword appears; Total Link Strength = Frequency of co-occurrence links with other keywords.