

Supplementary Table 1. Publication and citation profiles of leading countries/regions in ML-based prostate cancer diagnosis research (WoSCC, 1997–2024)

Country/region	Articles (CA) ^a	Share of total (CA) ^b	SCP ^c	MCP ^d	MCP ratio ^e	Total publications ^f	TP rank	Total citations ^g	TC rank	Citations per publication ^h
China	290	0.278	232	58	0.200	1180	1	4762	2	16.4
USA	199	0.190	134	65	0.327	1131	2	8207	1	41.2
Germany	66	0.063	34	32	0.485	369	3	1838	3	27.8
Canada	48	0.046	30	18	0.375	260	4	1378	5	28.7
Korea	42	0.040	33	9	0.214	174	8	616	9	14.7
UK	42	0.040	19	23	0.548	258	5	1288	6	30.7
Japan	41	0.039	34	7	0.171	180	7	797	7	19.4
Italy	40	0.038	31	9	0.225	218	6	617	8	15.4
Netherlands	33	0.032	25	8	0.242	146	9	1777	4	53.8
India	30	0.029	25	5	0.167	105	12	338	14	11.3

^a, articles (CA): number of publications attributed to the country/region of the corresponding author; ^b, share of total (CA): proportion of all included records represented by articles (CA) (reported as a decimal; e.g., 0.278 = 27.8%); ^c, SCP: publications with authors from one country/region only; ^d, MCP: publications co-authored by two or more countries/regions; ^e, MCP ratio: MCP/(SCP + MCP); ^f, TP: total number of publications involving the country/region (full counting, as output by bibliometrix), which may exceed articles (CA) because it is not limited to corresponding authors; ^g, TC: total citations received by TP publications within the retrieved WoSCC dataset; ^h, citations per publication: TC/TP. CA, corresponding author; SCP, single-country publications; MCP, multiple-country publications; TP, total publications; TC, total citations; USA, United States of America; UK, United Kingdom; WoSCC, Web of Science Core Collection.

Supplementary Table 2. Bibliometric indicators of high-impact journals

Journal	H-index	G-index	M-index	IF-2023	JCR 2023	TP	TP-rank	TC	TC-rank	PY-start
European Radiology	15	22	1	4.7	1	22	4	675	6	2010
Cancers	13	22	2.167	4.5	1	53	1	359	18	2019
Medical Image Analysis	12	16	0.75	10.7	1	16	9	564	9	2009
Medical Physics	12	22	0.8	3.2	1	22	5	419	15	2010
Diagnostics	11	16	2.2	3	1	21	6	185	41	2020
Frontiers in Oncology	11	19	1.571	3.5	2	35	2	262	27	2018
Journal of Magnetic Resonance Imaging	11	16	1	3.3	1	16	8	566	8	2014
Scientific Reports	11	30	1.1	3.8	1	30	3	731	5	2015
BJU International	10	10	0.385	3.7	1	10	16	413	17	1999
Computer Methods and Programs in Biomedicine	10	14	0.625	4.9	1	14	13	178	45	2009

H-index, the index measures both the productivity and citation impact of the publications; IF, impact factor, indicating the average number of citations to recent articles published in the journal; JCR, the quartile ranking of the journal in the Journal Citation Reports, indicating the journal's ranking relative to others in the same field (Q1: top 25%, Q2: 25%-50%, Q3: 50%-75%, Q4: bottom 25%); TP, total publications; TP-rank, rank of total publications; TC, total citations; TC-rank, rank of total citations; average citations, the average number of citations per publication; PY-start: publication year start, indicating the year the journal started publication.

Supplementary Table 3. 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
Stephan C	12	15	0.522	2002	15	1.81	1	629	3
Jung K	11	13	0.478	2002	13	1.57	4	563	4
Cammann H	10	12	0.435	2002	12	1.39	5	496	5
Madabhushi A	10	10	1.111	2016	10	1.27	7	1074	1
Turkbey B	10	12	0.833	2013	12	1.71	5	280	10
Huisman H	9	14	1.8	2020	14	1.87	3	346	8
Lein M	8	9	0.348	2002	9	1.11	11	366	7
Shao W	8	10	1.6	2020	10	0.81	7	233	12
Zhang J	8	15	0.8	2015	15	1.51	1	496	5
Brooks JD	7	9	1.167	2019	9	0.84	11	184	17

H-index, the index measures both the productivity and citation impact of the publications; G-index, the index gives more weight to highly cited articles; M-index, the index is the H-index divided by the number of years since the first published paper; TP, total Publications; TP-Frac: total publications fractionalized; TP-rank, rank of total publications; TC, total citations; TC-rank, rank of total citations; average citations, the average number of citations per publication; PY-start, publication year start, indicating the year the journal started publication.