Supplementary Table 1 Top 10 countries/regions in terms of number of publications, the corresponding frequency of citations and link strength.

Rank	Countries/ Regions	Publications	Countries	Citations	Countries/ Regions	Total link strength
1	China	2759	USA	95984	USA	743
2	USA	1202	China	68067	China	427
3	Japan	626	Italy	33038	Germany	196
4	South Korea	333	Japan	24107	Japan	170
5	Italy	318	Germany	15980	Italy	154
6	Germany	247	Sweden	13217	England	152
7	England	133	England	11708	Sweden	137
8	Sweden	128	South Korea	11438	France	123
9	France	125	France	9290	Australia	111
10	Egypt	98	Finland	4861	Canada	96

Supplementary Table 2 Top 10 institutions in terms of publications and citations issued and the corresponding link srength.

Rank	Institutions	Publications	Institutions	Citations	Institutions	Total link strength
1	Cent South Univ	190	Univ Pittsburgh	23383	Univ Pittsburgh	157
2	Univ Pittsburgh	185	Feinstein Inst Med Res	14480	Feinstein Inst Med Res	140
3	Huazhong Univ Sci & Technol	133	Ist Sci San Raffaele	10742	Cent South Univ	139
4	Wuhan Univ	116	San Raffaele Univ	9064	Huazhong Univ Sci & Technol	88
5	Shanghai Jiao Tong Univ	108	Karolinska Inst	8097	Karolinska Inst	78
6	Feinstein Inst Med Res	100	Univ Vita Salute San Raffaele	7710	Nanjing Med Univ	78
7	Nanjing Med Univ	98	Nyu	6497	Shanghai Jiao Tong Univ	76
8	Fudan Univ	94	N Shore Univ Hosp	5078	Karolinska Univ Hosp	71
9	Okayama Univ	94	Cent S Univ	4582	Okayama Univ	69
10	Shandong Univ	94	Karolinska Univ Hosp	4479	Fudan Univ	67

Supplementary Table 3 Top 10 authors in terms of number of publications and co-citations, the corresponding institutions and total link strength.

rank	author	Publ-ications	institution	Countries/Regions	Total link strength	Author	Co-citations	Institution	Countries/ Regions	Total link strength
1	Bianchi, Marco E.	100	IRCCS Ospedale San Raffaele	Italy	81	Yang, H	2262	Feinstein Institutes for Medical Research	United States	32052
2	Tracey, Kevin J.	99	Northwell Health System	United States	302	Andersson, U	2137	Karolinska Universitetssjukhuset	Sweden	28228
3	Nishibori, Masahiro	78	Graduate School of Medicine, Dentistry and Pharmaceutical Sciences	Japan	231	Wang, Hc	1848	Feinstein Institute for Medical Research	United States	26509
4	Yang, Huan	77	Feinstein Institute for Medical Research	United States	246	Tang, Dl	1564	UT Southwestern Medical School	United States	25157
5	Wang, Haichao	74	Feinstein Institute for Medical Research	United States	276	Bianchi, Me	1403	IRCCS Ospedale San Raffaele	Italy	19938
6	Bae, Jong-Sup	62	Kyungpook National University	South Korea	73	Scaffidi, P	1334	The Francis Crick Institute	United Kingdom	17046
7	Billiar, Timothy R.	61	Tongji University	China	141	Kang, R	1274	Univ Colorado	United States	18357
8	Tang, Daolin	61	U.T. Southwestern Medical School	United States	198	Park, Js	1114	UT Southwestern Medical School	United States	17477
9	Andersson, Ulf	55	Karolinska Universitetssjukhuset	Sweden	157	Lotze, Mt	1041	University of Pittsburgh	United States	12091
10	Kang, Rui	51	UT Southwestern Medical Center	United States	186	Tsung, A	766	University of Pittsburgh Medical Center	United States	11418

Supplementary Table 4 Top 10 journals in terms of number of publications and co-citations, and corresponding IF (JCR 2023) and JCR quartile.

Rank	Journal	Publications	Citations	IF(JCR 2023)	JCR quatile	Co-Cited-Journal	Co-citations	IF(JCR 2023)	JCR quartile
1	International Immunopharmacology	104	2408	4.8	Q1	J Biol Chem	7095	4	Q2
2	International Journal of Molecular Sciences	98	1681	4.9	Q1	J Immunol	6520	3.6	Q2
3	Plos One	92	3005	2.9	Q1	Nature	5311	50.5	Q1
4	Frontiers in Immunology	88	3554	5.7	Q1	P Natl Acad Sci Usa	4983	9.4	Q1
5	Biochemical and Biophysical Research Communications	87	2716	2.5	Q3	Plos One	4031	2.9	Q1
6	Scientific Reports	75	2205	3.8	Q1	Science	3789	44.8	Q1
7	Shock	64	3624	2.7	Q1	J Exp Med	3744	12.8	Q1
8	Molecular Medicine Reports	63	1178	3.4	Q2	J Leukocyte Biol	3561	3.6	Q3
9	Molecular Medicine	60	4304	6	Q1	Embo J	2610	9.5	Q1
10	Journal of Biological Chemistry	48	6735	4	Q2	Cell	2590	45.6	Q1

Supplementary Table 5 Top 20 keywords in terms of frequency of occurrence and the corresponding total link strength.

Rank	Keyword	Occurences	Total link strength
1	hmgb1	3990	5842
2	inflammation	758	1683
3	rage	379	912
4	sepsis	305	648
5	toll-like receptor 4	275	669
6	apoptosis	250	572
7	autophagy	238	468
8	nf-κb	191	465
9	cytokine	190	457
10	lps	143	332
11	macrophage	134	303
12	neuroinflammation	134	303
13	damps	123	314
14	oxidative stress	118	285
15	toll-like receptor	114	285
16	glycyrrhizic acid	109	229
17	biomarker	103	185
18	ischemia-reperfusion injury	96	214
19	acute lung injury	95	218
20	microglia	91	212

Supplementary Table 6 Top 15 highly cited references.

Rank	Article Title	Author	Source Title	Cited	Year	Document Type	DOI
1	Release of chromatin protein HMGB1 by necrotic cells triggers inflammation	Scaffidi, P, et al.	NATURE	3410	2002	Article	10.1038/nature00858
2	Involvement of toll-like receptors 2 and 4 in cellular activation by high mobility group box 1 protein	Park, JS, et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	1298	2004	Article	10.1074/jbc.M306793200
3	Toll-like receptor 9-dependent activation by DNA-containing immune complexes is mediated by HMGB1 and RAGE	Tian, J, et al.	NATURE IMMUNOLOGY	1140	2007	Article	10.1038/ni1457
4	Blockade of RAGE-amphoterin signalling suppresses tumour growth and metastases	Taguchi, A, et al.	NATURE	1083	2000	Article	10.1038/35012626
5	Monocytic cells hyperacetylate chromatin protein HMGB1 to redirect it towards secretion	Bonaldi, T, et al.	EMBO JOURNAL	1024	2003	Article	10.1093/emboj/cdg516
6	THE RECEPTOR FOR ADVANCED GLYCATION END-PRODUCTS (RAGE) IS A CELLULAR-BINDING SITE FOR AMPHOTERIN - MEDIATION OF NEURITE OUTGROWTH AND COEXPRESSION OF RAGE AND AMPHOTERIN IN THE DEVELOPING NERVOUS-SYSTEM	HORI, O, et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	1012	1995	Article	10.1074/jbc.270.43.25752
7	Reversing established sepsis with antagonists of endogenous high-mobility group box 1	Yang, H, et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	955	2004	Article	10.1073/pnas.2434651100
8	The nuclear factor HMGB1 mediates hepatic injury after murine liver ischemia-reperfusion	Tsung, A, et al.	JOURNAL OF EXPERIMENTAL MEDICINE	951	2005	Article	10.1084/jem.20042614
9	Cholinergic agonists inhibit HMGB1 release and improve survival in experimental sepsis	Wang, H, et al.	NATURE MEDICINE	934	2004	Article	10.1038/nm1124
10	Immunogenic death of colon cancer cells treated with oxaliplatin	Tesniere, A, et al.	ONCOGENE	910	2010	Article	10.1038/onc.2009.356
11	IL-33, the IL-1-like cytokine ligand for ST2 receptor, is a chromatin-associated nuclear factor in vivo	Carriere, V, et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	815	2007	Article	10.1073/pnas.0606854104
12	Endogenous HMGB1 regulates autophagy	Tang, DL, et al.	JOURNAL OF CELL BIOLOGY	773	2010	Article	10.1083/jcb.200911078
13	High mobility group box 1 protein interacts with multiple Toll-like receptors	Park, JS, et al.	AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY	771	2006	Article	10.1152/ajpcell.00401.2005
14	The nuclear protein HMGB1 is secreted by monocytes via a non-classical, vesicle-mediated secretory pathway	Gardella, S, et al.	EMBO REPORTS	754	2002	Article	10.1093/embo-reports/kvf198
15	Toll-like receptor 4 and high-mobility group box-1 are involved in ictogenesis and can be targeted to reduce seizures	Maroso, M, et al.	NATURE MEDICINE	729	2010	Article	10.1038/nm.2127