

Rui Kang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

17,523
citations

54
h-index

132
g-index

142
ext. papers

24,558
ext. citations

8.8
avg, IF

7.38
L-index

#	Paper	IF	Citations
134	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
133	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546.2	10.2	2783
132	Activation of the p62-Keap1-NRF2 pathway protects against ferroptosis in hepatocellular carcinoma cells. <i>Hepatology</i> , 2016 , 63, 173-84	11.2	676
131	Autophagy promotes ferroptosis by degradation of ferritin. <i>Autophagy</i> , 2016 , 12, 1425-8	10.2	637
130	The molecular machinery of regulated cell death. <i>Cell Research</i> , 2019 , 29, 347-364	24.7	583
129	HMGB1 in health and disease. <i>Molecular Aspects of Medicine</i> , 2014 , 40, 1-116	16.7	557
128	HMGB1 in cancer: good, bad, or both?. <i>Clinical Cancer Research</i> , 2013 , 19, 4046-57	12.9	327
127	The Tumor Suppressor p53 Limits Ferroptosis by Blocking DPP4 Activity. <i>Cell Reports</i> , 2017 , 20, 1692-1704.6	14.6	313
126	Identification of ACSL4 as a biomarker and contributor of ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 478, 1338-43	3.4	310
125	Ferroptosis: molecular mechanisms and health implications. <i>Cell Research</i> , 2021 , 31, 107-125	24.7	287
124	Broadening horizons: the role of ferroptosis in cancer. <i>Nature Reviews Clinical Oncology</i> , 2021 , 18, 280-296.4	19.4	272
123	Metallothionein-1G facilitates sorafenib resistance through inhibition of ferroptosis. <i>Hepatology</i> , 2016 , 64, 488-500	11.2	264
122	PKM2 regulates the Warburg effect and promotes HMGB1 release in sepsis. <i>Nature Communications</i> , 2014 , 5, 4436	17.4	241
121	AMPK-Mediated BECN1 Phosphorylation Promotes Ferroptosis by Directly Blocking System X Activity. <i>Current Biology</i> , 2018 , 28, 2388-2399.e5	6.3	234
120	Ferroptosis is a type of autophagy-dependent cell death. <i>Seminars in Cancer Biology</i> , 2020 , 66, 89-100	12.7	215
119	PKM2-dependent glycolysis promotes NLRP3 and AIM2 inflammasome activation. <i>Nature Communications</i> , 2016 , 7, 13280	17.4	210
118	Lipid Peroxidation Drives Gasdermin D-Mediated Pyroptosis in Lethal Polymicrobial Sepsis. <i>Cell Host and Microbe</i> , 2018 , 24, 97-108.e4	23.4	206

117	The hallmarks of COVID-19 disease. <i>PLoS Pathogens</i> , 2020 , 16, e1008536	7.6	200
116	CISD1 inhibits ferroptosis by protection against mitochondrial lipid peroxidation. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 478, 838-44	3.4	192
115	The ferroptosis inducer erastin enhances sensitivity of acute myeloid leukemia cells to chemotherapeutic agents. <i>Molecular and Cellular Oncology</i> , 2015 , 2, e1054549	1.2	186
114	HSPA5 Regulates Ferroptotic Cell Death in Cancer Cells. <i>Cancer Research</i> , 2017 , 77, 2064-2077	10.1	181
113	The tumor suppressor protein p53 and the ferroptosis network. <i>Free Radical Biology and Medicine</i> , 2019 , 133, 162-168	7.8	159
112	HMGB1: a novel Beclin 1-binding protein active in autophagy. <i>Autophagy</i> , 2010 , 6, 1209-11	10.2	153
111	Intracellular Hmgb1 inhibits inflammatory nucleosome release and limits acute pancreatitis in mice. <i>Gastroenterology</i> , 2014 , 146, 1097-107	13.3	151
110	Autophagy-Dependent Ferroptosis: Machinery and Regulation. <i>Cell Chemical Biology</i> , 2020 , 27, 420-435	8.2	150
109	Oxidative stress-mediated HMGB1 biology. <i>Frontiers in Physiology</i> , 2015 , 6, 93	4.6	145
108	The release and activity of HMGB1 in ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 510, 278-283	3.4	140
107	Clockophagy is a novel selective autophagy process favoring ferroptosis. <i>Science Advances</i> , 2019 , 5, eaaw1238	12.3	137
106	Ferroptosis: machinery and regulation. <i>Autophagy</i> , 2021 , 17, 2054-2081	10.2	131
105	Autophagy-dependent ferroptosis drives tumor-associated macrophage polarization via release and uptake of oncogenic KRAS protein. <i>Autophagy</i> , 2020 , 16, 2069-2083	10.2	125
104	Lipid storage and lipophagy regulates ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 508, 997-1003	3.4	123
103	Identification of baicalein as a ferroptosis inhibitor by natural product library screening. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 473, 775-780	3.4	110
102	PINK1 and PARK2 Suppress Pancreatic Tumorigenesis through Control of Mitochondrial Iron-Mediated Immunometabolism. <i>Developmental Cell</i> , 2018 , 46, 441-455.e8	10.2	107
101	The long non-coding RNA TP73-AS1 modulates HCC cell proliferation through miR-200a-dependent HMGB1/RAGE regulation. <i>Journal of Experimental and Clinical Cancer Research</i> , 2017 , 36, 51	12.8	102
100	Iron Metabolism in Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 590226	5.7	92

99	Ferroptosis is a lysosomal cell death process. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 1550-1556	3.4	90
98	DAMPs, ageing, and cancer: The DAMP Hypothesis <i>Ageing Research Reviews</i> , 2015 , 24, 3-16	12	89
97	Cell death and DAMPs in acute pancreatitis. <i>Molecular Medicine</i> , 2014 , 20, 466-77	6.2	85
96	Emerging role of high-mobility group box 1 (HMGB1) in liver diseases. <i>Molecular Medicine</i> , 2013 , 19, 357-66	6.6	80
95	Metabolic regulation by HMGB1-mediated autophagy and mitophagy. <i>Autophagy</i> , 2011 , 7, 1256-8	10.2	80
94	Oxidative Damage and Antioxidant Defense in Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 586578	5.7	79
93	Autophagy and Ferroptosis - What's the Connection?. <i>Current Pathobiology Reports</i> , 2017 , 5, 153-159	2	78
92	FANCD2 protects against bone marrow injury from ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 480, 443-449	3.4	76
91	AGER/RAGE-mediated autophagy promotes pancreatic tumorigenesis and bioenergetics through the IL6-pSTAT3 pathway. <i>Autophagy</i> , 2012 , 8, 989-91	10.2	73
90	Ferroptotic damage promotes pancreatic tumorigenesis through a TMEM173/STING-dependent DNA sensor pathway. <i>Nature Communications</i> , 2020 , 11, 6339	17.4	72
89	Cellular degradation systems in ferroptosis. <i>Cell Death and Differentiation</i> , 2021 , 28, 1135-1148	12.7	70
88	Inhibition of Aurora Kinase A Induces Necroptosis in Pancreatic Carcinoma. <i>Gastroenterology</i> , 2017 , 153, 1429-1443.e5	13.3	69
87	PKR-dependent inflammatory signals. <i>Science Signaling</i> , 2012 , 5, pe47	8.8	69
86	Mitochondrial DNA stress triggers autophagy-dependent ferroptotic death. <i>Autophagy</i> , 2021 , 17, 948-960.	10.2	68
85	The Circadian Clock Controls Immune Checkpoint Pathway in Sepsis. <i>Cell Reports</i> , 2018 , 24, 366-378	10.6	65
84	HMGB1 as an autophagy sensor in oxidative stress. <i>Autophagy</i> , 2011 , 7, 904-6	10.2	64
83	High mobility group protein B1 controls liver cancer initiation through yes-associated protein-dependent aerobic glycolysis. <i>Hepatology</i> , 2018 , 67, 1823-1841	11.2	63
82	RAGE regulates autophagy and apoptosis following oxidative injury. <i>Autophagy</i> , 2011 , 7, 442-4	10.2	62

81	ALK is a therapeutic target for lethal sepsis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	58
80	Transcription factors in ferroptotic cell death. <i>Cancer Gene Therapy</i> , 2020 , 27, 645-656	5.4	54
79	AIFM2 blocks ferroptosis independent of ubiquinol metabolism. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 523, 966-971	3.4	54
78	TMEM173 Drives Lethal Coagulation in Sepsis. <i>Cell Host and Microbe</i> , 2020 , 27, 556-570.e6	23.4	53
77	A novel PINK1- and PARK2-dependent protective neuroimmune pathway in lethal sepsis. <i>Autophagy</i> , 2016 , 12, 2374-2385	10.2	53
76	ESCRT-III-dependent membrane repair blocks ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 522, 415-421	3.4	53
75	Characteristics and Biomarkers of Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 637167	6.7	51
74	HMGB1 as a potential biomarker and therapeutic target for severe COVID-19. <i>Heliyon</i> , 2020 , 6, e05672	3.6	50
73	Interplay between MTOR and GPX4 signaling modulates autophagy-dependent ferroptotic cancer cell death. <i>Cancer Gene Therapy</i> , 2021 , 28, 55-63	5.4	50
72	JTC801 Induces pH-dependent Death Specifically in Cancer Cells and Slows Growth of Tumors in Mice. <i>Gastroenterology</i> , 2018 , 154, 1480-1493	13.3	48
71	cAMP metabolism controls caspase-11 inflammasome activation and pyroptosis in sepsis. <i>Science Advances</i> , 2019 , 5, eaav5562	14.3	46
70	Interplay Between Lipid Metabolism and Autophagy. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 431	5.7	45
69	Ferroptosis in infection, inflammation, and immunity. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	41
68	The Receptor for Advanced Glycation End Products Activates the AIM2 Inflammasome in Acute Pancreatitis. <i>Journal of Immunology</i> , 2016 , 196, 4331-7	5.3	39
67	Regulation and function of autophagy in pancreatic cancer. <i>Autophagy</i> , 2021 , 17, 3275-3296	10.2	37
66	NUPR1 is a critical repressor of ferroptosis. <i>Nature Communications</i> , 2021 , 12, 647	17.4	37
65	Antiferroptotic activity of non-oxidative dopamine. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 480, 602-607	3.4	35
64	PDK4 dictates metabolic resistance to ferroptosis by suppressing pyruvate oxidation and fatty acid synthesis. <i>Cell Reports</i> , 2021 , 34, 108767	10.6	35

63	NEDD4L-mediated LTF protein degradation limits ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 531, 581-587	3.4	32
62	The BET family in immunity and disease. <i>Signal Transduction and Targeted Therapy</i> , 2021 , 6, 23	21	32
61	High mobility group box 1 (HMGB1) phenotypic role revealed with stress. <i>Molecular Medicine</i> , 2014 , 20, 359-62	6.2	31
60	A novel lncRNA, TCONS_00006195, represses hepatocellular carcinoma progression by inhibiting enzymatic activity of ENO1. <i>Cell Death and Disease</i> , 2018 , 9, 1184	9.8	31
59	Tumor heterogeneity in autophagy-dependent ferroptosis. <i>Autophagy</i> , 2021 , 17, 3361-3374	10.2	30
58	MGST1 is a redox-sensitive repressor of ferroptosis in pancreatic cancer cells. <i>Cell Chemical Biology</i> , 2021 , 28, 765-775.e5	8.2	28
57	Cell death in pancreatic cancer: from pathogenesis to therapy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021 , 18, 804-823	24.2	27
56	ACOD1 in immunometabolism and disease. <i>Cellular and Molecular Immunology</i> , 2020 , 17, 822-833	15.4	25
55	Autophagy is required for IL-2-mediated fibroblast growth. <i>Experimental Cell Research</i> , 2013 , 319, 556-654	4.2	25
54	Plumbagin Protects Mice from Lethal Sepsis by Modulating Immunometabolism Upstream of PKM2. <i>Molecular Medicine</i> , 2016 , 22, 162-172	6.2	25
53	CDK1/2/5 inhibition overcomes IFNG-mediated adaptive immune resistance in pancreatic cancer. <i>Gut</i> , 2021 , 70, 890-899	19.2	25
52	Crosstalk between hepatitis B virus X and high-mobility group box 1 facilitates autophagy in hepatocytes. <i>Molecular Oncology</i> , 2018 , 12, 322-338	7.9	24
51	Nuclear DAMP complex-mediated RAGE-dependent macrophage cell death. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 458, 650-655	3.4	22
50	Signaling pathways and defense mechanisms of ferroptosis. <i>FEBS Journal</i> , 2021 ,	5.7	22
49	The ferroptosis inducer erastin promotes proliferation and differentiation in human peripheral blood mononuclear cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 1689-1695	3.4	20
48	Cathepsin B is a mediator of organelle-specific initiation of ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 533, 1464-1469	3.4	20
47	AMPK regulates immunometabolism in sepsis. <i>Brain, Behavior, and Immunity</i> , 2018 , 72, 89-100	16.6	20
46	The circadian clock protects against ferroptosis-induced sterile inflammation. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 525, 620-625	3.4	19

45	Reactive oxygen species regulate the differentiation of acute promyelocytic leukemia cells through HMGB1-mediated autophagy. <i>American Journal of Cancer Research</i> , 2015 , 5, 714-25	4.4	17
44	Extracellular SQSTM1 mediates bacterial septic death in mice through insulin receptor signalling. <i>Nature Microbiology</i> , 2020 , 5, 1576-1587	26.6	17
43	The STING1 network regulates autophagy and cell death. <i>Signal Transduction and Targeted Therapy</i> , 2021 , 6, 208	21	17
42	STING1 Promotes Ferroptosis Through MFN1/2-Dependent Mitochondrial Fusion. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 698679	5.7	15
41	Mitophagy Receptors in Tumor Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 594203	5.7	14
40	Organelle-specific regulation of ferroptosis. <i>Cell Death and Differentiation</i> , 2021 , 28, 2843-2856	12.7	14
39	AGER-Mediated Lipid Peroxidation Drives Caspase-11 Inflammasome Activation in Sepsis. <i>Frontiers in Immunology</i> , 2019 , 10, 1904	8.4	13
38	Lipid Metabolism in Ferroptosis. <i>Advanced Biology</i> , 2021 , 5, e2100396		13
37	Inflammasome-Dependent Coagulation Activation in Sepsis. <i>Frontiers in Immunology</i> , 2021 , 12, 641750	8.4	12
36	Targeting ferroptosis in pancreatic cancer: a double-edged sword. <i>Trends in Cancer</i> , 2021 , 7, 891-901	12.5	12
35	The mechanism of HMGB1 secretion and release.. <i>Experimental and Molecular Medicine</i> , 2022 ,	12.8	12
34	Pirin is a nuclear redox-sensitive modulator of autophagy-dependent ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 536, 100-106	3.4	11
33	The Versatile Gasdermin Family: Their Function and Roles in Diseases. <i>Frontiers in Immunology</i> , 2021 , 12, 751533	8.4	10
32	Oncogenic KRAS blockade therapy: renewed enthusiasm and persistent challenges. <i>Molecular Cancer</i> , 2021 , 20, 128	42.1	10
31	The Multifaceted Effects of Autophagy on the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1225, 99-114	3.6	9
30	Novel chemokine-like activities of histones in tumor metastasis. <i>Oncotarget</i> , 2016 , 7, 61728-61740	3.3	9
29	Chloroquine in fighting COVID-19: good, bad, or both?. <i>Autophagy</i> , 2020 , 16, 2273-2275	10.2	9
28	The dark side of ferroptosis in pancreatic cancer. <i>Oncolmmunology</i> , 2021 , 10, 1868691	7.2	9

27	Damage-Associated Molecular Patterns and the Systemic Immune Consequences of Severe Thermal Injury. <i>Journal of Immunology</i> , 2020 , 205, 1189-1197	5.3	8
26	Cellular and molecular mechanisms of perineural invasion of pancreatic ductal adenocarcinoma. <i>Cancer Communications</i> , 2021 , 41, 642-660	9.4	8
25	Trypsin-Mediated Sensitization to Ferroptosis Increases the Severity of Pancreatitis in Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021 ,	7.9	8
24	Emerging mechanisms of immunocoagulation in sepsis and septic shock. <i>Trends in Immunology</i> , 2021 , 42, 508-522	14.4	7
23	SMG9 drives ferroptosis by directly inhibiting GPX4 degradation. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 567, 92-98	3.4	6
22	The STING-STAT6 pathway drives Cas9-induced host response in human monocytes. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 506, 278-283	3.4	4
21	Targeting NF- κ B-dependent alkaliptosis for the treatment of venetoclax-resistant acute myeloid leukemia cells. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 562, 55-61	3.4	4
20	PPARG-mediated ferroptosis in dendritic cells limits antitumor immunity. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 576, 33-39	3.4	4
19	Ion Channels and Transporters in Autophagy. <i>Autophagy</i> , 2021 , 1-20	10.2	3
18	STING1 in sepsis: Mechanisms, functions, and implications. <i>Chinese Journal of Traumatology - English Edition</i> , 2021 ,	2.3	3
17	The Dual Role of HMGB1 in Pancreatic Cancer. <i>Journal of Pancreatology</i> , 2018 , 1, 19-24	1.9	2
16	Itaconic acid induces ferroptosis by activating ferritinophagy. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 583, 56-62	3.4	2
15	Pharmacological Modulation of BET Family in Sepsis. <i>Frontiers in Pharmacology</i> , 2021 , 12, 642294	5.6	2
14	The cGAS-STING pathway connects mitochondrial damage to inflammation in burn-induced acute lung injury in rat. <i>Burns</i> , 2021 ,	2.3	2
13	The HMGB1-AGER-STING1 pathway mediates the sterile inflammatory response to alkaliptosis. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 560, 165-171	3.4	2
12	Mitophagy in Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2021 , 11, 616079	5.3	2
11	DCN released from ferroptotic cells ignites AGER-dependent immune responses.. <i>Autophagy</i> , 2021 , 1-14	10.2	2
10	The Art of War: Ferroptosis and Pancreatic Cancer.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 773909	5.6	1

9	Monitoring autophagy-dependent ferroptosis. <i>Methods in Cell Biology</i> , 2021 , 165, 163-176	1.8	1
8	CDK1/2/5 blockade: killing two birds with one stone. <i>Oncolmunology</i> , 2021 , 10, 1875612	7.2	1
7	Ferroptosis by Lipid Peroxidation: The Tip of the Iceberg?. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 646890	5.7	1
6	Heterodimeric RGD-NGR PET Tracer for the Early Detection of Pancreatic Cancer.. <i>Molecular Imaging and Biology</i> , 2022 , 1	3.8	1
5	Cyclophosphamide-induced GPX4 degradation triggers parthanatos by activating AIFM1.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 606, 68-74	3.4	1
4	Identification of HPCAL1 as a specific autophagy receptor involved in ferroptosis.. <i>Autophagy</i> , 2022 , 1-21	10.2	1
3	Targeting HSP90 sensitizes pancreas carcinoma to PD-1 blockade.. <i>Oncolmunology</i> , 2022 , 11, 2068488	7.2	1
2	Metabolic checkpoint of ferroptosis resistance. <i>Molecular and Cellular Oncology</i> , 2021 , 8, 1901558	1.2	0
1	HSP90 as an emerging barrier to immune checkpoint blockade therapy.. <i>Oncoscience</i> , 2022 , 9, 20-22	0.8	0