

# Rui Kang

## List of Publications by Year in descending order

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Version: 2024-02-01

141  
papers

32,777  
citations

9234

74  
h-index

9839

141  
g-index

142  
all docs

142  
docs citations

142  
times ranked

34380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	Ferroptosis: molecular mechanisms and health implications. <i>Cell Research</i> , 2021, 31, 107-125.	5.7	1,406
4	The molecular machinery of regulated cell death. <i>Cell Research</i> , 2019, 29, 347-364.	5.7	1,373
5	Autophagy promotes ferroptosis by degradation of ferritin. <i>Autophagy</i> , 2016, 12, 1425-1428.	4.3	1,318
6	Activation of the p62 $\rightarrow$ Keap1 $\rightarrow$ NRF2 pathway protects against ferroptosis in hepatocellular carcinoma cells. <i>Hepatology</i> , 2016, 63, 173-184.	3.6	1,263
7	Broadening horizons: the role of ferroptosis in cancer. <i>Nature Reviews Clinical Oncology</i> , 2021, 18, 280-296.	12.5	1,216
8	Ferroptosis: machinery and regulation. <i>Autophagy</i> , 2021, 17, 2054-2081.	4.3	765
9	HMGB1 in health and disease. <i>Molecular Aspects of Medicine</i> , 2014, 40, 1-116.	2.7	763
10	Identification of ACSL4 as a biomarker and contributor of ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 1338-1343.	1.0	650
11	The Tumor Suppressor p53 Limits Ferroptosis by Blocking DPP4 Activity. <i>Cell Reports</i> , 2017, 20, 1692-1704.	2.9	608
12	Ferroptosis is a type of autophagy-dependent cell death. <i>Seminars in Cancer Biology</i> , 2020, 66, 89-100.	4.3	552
13	AMPK-Mediated BECN1 Phosphorylation Promotes Ferroptosis by Directly Blocking System Xc <sup>o</sup> Activity. <i>Current Biology</i> , 2018, 28, 2388-2399.e5.	1.8	471
14	Metallothionein $\rightarrow$ C facilitates sorafenib resistance through inhibition of ferroptosis. <i>Hepatology</i> , 2016, 64, 488-500.	3.6	462
15	Iron Metabolism in Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 590226.	1.8	408
16	HMGB1 in Cancer: Good, Bad, or Both?. <i>Clinical Cancer Research</i> , 2013, 19, 4046-4057.	3.2	399
17	Autophagy-Dependent Ferroptosis: Machinery and Regulation. <i>Cell Chemical Biology</i> , 2020, 27, 420-435.	2.5	399
18	Lipid Peroxidation Drives Gasdermin D-Mediated Pyroptosis in Lethal Polymicrobial Sepsis. <i>Cell Host and Microbe</i> , 2018, 24, 97-108.e4.	5.1	390

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19	The tumor suppressor protein p53 and the ferroptosis network. <i>Free Radical Biology and Medicine</i> , 2019, 133, 162-168.	1.3	384
20	PKM2-dependent glycolysis promotes NLRP3 and AIM2 inflammasome activation. <i>Nature Communications</i> , 2016, 7, 13280.	5.8	356
21	HSPA5 Regulates Ferroptotic Cell Death in Cancer Cells. <i>Cancer Research</i> , 2017, 77, 2064-2077.	0.4	353
22	The release and activity of HMGB1 in ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2019, 510, 278-283.	1.0	350
23	PKM2 regulates the Warburg effect and promotes HMGB1 release in sepsis. <i>Nature Communications</i> , 2014, 5, 4436.	5.8	346
24	The hallmarks of COVID-19 disease. <i>PLoS Pathogens</i> , 2020, 16, e1008536.	2.1	342
25	CISD1 inhibits ferroptosis by protection against mitochondrial lipid peroxidation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 838-844.	1.0	341
26	Autophagy-dependent ferroptosis drives tumor-associated macrophage polarization via release and uptake of oncogenic KRAS protein. <i>Autophagy</i> , 2020, 16, 2069-2083.	4.3	319
27	The ferroptosis inducer erastin enhances sensitivity of acute myeloid leukemia cells to chemotherapeutic agents. <i>Molecular and Cellular Oncology</i> , 2015, 2, e1054549.	0.3	301
28	Ferroptosis in infection, inflammation, and immunity. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	298
29	Clockophagy is a novel selective autophagy process favoring ferroptosis. <i>Science Advances</i> , 2019, 5, eaaw2238.	4.7	286
30	Cellular degradation systems in ferroptosis. <i>Cell Death and Differentiation</i> , 2021, 28, 1135-1148.	5.0	283
31	Lipid storage and lipophagy regulates ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2019, 508, 997-1003.	1.0	281
32	Oxidative Damage and Antioxidant Defense in Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 586578.	1.8	265
33	Mitochondrial DNA stress triggers autophagy-dependent ferroptotic death. <i>Autophagy</i> , 2021, 17, 948-960.	4.3	228
34	The mechanism of HMGB1 secretion and release. <i>Experimental and Molecular Medicine</i> , 2022, 54, 91-102.	3.2	225
35	Oxidative stress-mediated HMGB1 biology. <i>Frontiers in Physiology</i> , 2015, 6, 93.	1.3	210
36	Ferroptotic damage promotes pancreatic tumorigenesis through a TMEM173/STING-dependent DNA sensor pathway. <i>Nature Communications</i> , 2020, 11, 6339.	5.8	201

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37	Intracellular Hmgb1 Inhibits Inflammatory Nucleosome Release and Limits Acute Pancreatitis in Mice. <i>Gastroenterology</i> , 2014, 146, 1097-1107.e8.	0.6	200
38	Characteristics and Biomarkers of Ferroptosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 637162.	1.8	199
39	HMGB1: A novel Beclin 1-binding protein active in autophagy. <i>Autophagy</i> , 2010, 6, 1209-1211.	4.3	183
40	Signaling pathways and defense mechanisms of ferroptosis. <i>FEBS Journal</i> , 2022, 289, 7038-7050.	2.2	177
41	PINK1 and PARK2 Suppress Pancreatic Tumorigenesis through Control of Mitochondrial Iron-Mediated Immunometabolism. <i>Developmental Cell</i> , 2018, 46, 441-455.e8.	3.1	176
42	Identification of baicalein as a ferroptosis inhibitor by natural product library screening. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 775-780.	1.0	174
43	Ferroptosis is a lysosomal cell death process. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 1550-1556.	1.0	172
44	Cell death in pancreatic cancer: from pathogenesis to therapy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021, 18, 804-823.	8.2	156
45	ESCRT-III-dependent membrane repair blocks ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 522, 415-421.	1.0	143
46	Transcription factors in ferroptotic cell death. <i>Cancer Gene Therapy</i> , 2020, 27, 645-656.	2.2	141
47	AIFM2 blocks ferroptosis independent of ubiquinol metabolism. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 966-971.	1.0	138
48	Organelle-specific regulation of ferroptosis. <i>Cell Death and Differentiation</i> , 2021, 28, 2843-2856.	5.0	138
49	Inhibition of Aurora Kinase A Induces Necroptosis in Pancreatic Carcinoma. <i>Gastroenterology</i> , 2017, 153, 1429-1443.e5.	0.6	137
50	FANCD2 protects against bone marrow injury from ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 443-449.	1.0	136
51	The BET family in immunity and disease. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 23.	7.1	135
52	Interplay between MTOR and GPX4 signaling modulates autophagy-dependent ferroptotic cancer cell death. <i>Cancer Gene Therapy</i> , 2021, 28, 55-63.	2.2	134
53	Autophagy and Ferroptosis—What Is the Connection?. <i>Current Pathobiology Reports</i> , 2017, 5, 153-159.	1.6	133
54	NUPR1 is a critical repressor of ferroptosis. <i>Nature Communications</i> , 2021, 12, 647.	5.8	126

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55	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.	3.5	122
56	The Circadian Clock Controls Immune Checkpoint Pathway in Sepsis. <i>Cell Reports</i> , 2018, 24, 366-378.	2.9	120
57	Cell Death and DAMPs in Acute Pancreatitis. <i>Molecular Medicine</i> , 2014, 20, 466-477.	1.9	119
58	TMEM173 Drives Lethal Coagulation in Sepsis. <i>Cell Host and Microbe</i> , 2020, 27, 556-570.e6.	5.1	119
59	HMGB1 as a potential biomarker and therapeutic target for severe COVID-19. <i>Heliyon</i> , 2020, 6, e05672.	1.4	118
60	DAMPs, ageing, and cancer: The "DAMP Hypothesis"™. <i>Ageing Research Reviews</i> , 2015, 24, 3-16.	5.0	117
61	Tumor heterogeneity in autophagy-dependent ferroptosis. <i>Autophagy</i> , 2021, 17, 3361-3374.	4.3	116
62	Interplay Between Lipid Metabolism and Autophagy. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 431.	1.8	115
63	PDK4 dictates metabolic resistance to ferroptosis by suppressing pyruvate oxidation and fatty acid synthesis. <i>Cell Reports</i> , 2021, 34, 108767.	2.9	112
64	JTC801 Induces pH-dependent Death Specifically in Cancer Cells and Slows Growth of Tumors in Mice. <i>Gastroenterology</i> , 2018, 154, 1480-1493.	0.6	105
65	The STING1 network regulates autophagy and cell death. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 208.	7.1	105
66	Metabolic regulation by HMGB1-mediated autophagy and mitophagy. <i>Autophagy</i> , 2011, 7, 1256-1258.	4.3	102
67	Emerging Role of High-Mobility Group Box 1 (HMGB1) in Liver Diseases. <i>Molecular Medicine</i> , 2013, 19, 357-366.	1.9	98
68	MGST1 is a redox-sensitive repressor of ferroptosis in pancreatic cancer cells. <i>Cell Chemical Biology</i> , 2021, 28, 765-775.e5.	2.5	98
69	ALK is a therapeutic target for lethal sepsis. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	90
70	cAMP metabolism controls caspase-11 inflammasome activation and pyroptosis in sepsis. <i>Science Advances</i> , 2019, 5, eaav5562.	4.7	89
71	Regulation and function of autophagy in pancreatic cancer. <i>Autophagy</i> , 2021, 17, 3275-3296.	4.3	89
72	High mobility group protein B1 controls liver cancer initiation through yes-associated protein dependent aerobic glycolysis. <i>Hepatology</i> , 2018, 67, 1823-1841.	3.6	88

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73	ACOD1 in immunometabolism and disease. <i>Cellular and Molecular Immunology</i> , 2020, 17, 822-833.	4.8	88
74	PKR-Dependent Inflammatory Signals. <i>Science Signaling</i> , 2012, 5, pe47.	1.6	86
75	NEDD4L-mediated LTF protein degradation limits ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 531, 581-587.	1.0	86
76	AGER/RAGE-mediated autophagy promotes pancreatic tumorigenesis and bioenergetics through the IL6-pSTAT3 pathway. <i>Autophagy</i> , 2012, 8, 989-991.	4.3	82
77	HMGB1 as an autophagy sensor in oxidative stress. <i>Autophagy</i> , 2011, 7, 904-906.	4.3	79
78	A novel PINK1- and PARK2-dependent protective neuroimmune pathway in lethal sepsis. <i>Autophagy</i> , 2016, 12, 2374-2385.	4.3	78
79	Targeting ferroptosis in pancreatic cancer: a double-edged sword. <i>Trends in Cancer</i> , 2021, 7, 891-901.	3.8	78
80	RAGE regulates autophagy and apoptosis following oxidative injury. <i>Autophagy</i> , 2011, 7, 442-444.	4.3	71
81	The Versatile Gasdermin Family: Their Function and Roles in Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 751533.	2.2	70
82	The KRAS-G12C inhibitor: activity and resistance. <i>Cancer Gene Therapy</i> , 2022, 29, 875-878.	2.2	69
83	Lipid Metabolism in Ferroptosis. <i>Advanced Biology</i> , 2021, 5, e2100396.	1.4	65
84	ESCRT-III-mediated membrane repair in cell death and tumor resistance. <i>Cancer Gene Therapy</i> , 2021, 28, 1-4.	2.2	60
85	Antiferroptotic activity of non-oxidative dopamine. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 602-607.	1.0	59
86	Cathepsin B is a mediator of organelle-specific initiation of ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 1464-1469.	1.0	59
87	CDK1/2/5 inhibition overcomes IFNG-mediated adaptive immune resistance in pancreatic cancer. <i>Gut</i> , 2021, 70, 890-899.	6.1	59
88	STING1 Promotes Ferroptosis Through MFN1/2-Dependent Mitochondrial Fusion. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 698679.	1.8	54
89	Emerging mechanisms of immunocoagulation in sepsis and septic shock. <i>Trends in Immunology</i> , 2021, 42, 508-522.	2.9	51
90	DCN released from ferroptotic cells ignites AGER-dependent immune responses. <i>Autophagy</i> , 2022, 18, 2036-2049.	4.3	51

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91	The Receptor for Advanced Glycation End Products Activates the AIM2 Inflammasome in Acute Pancreatitis. <i>Journal of Immunology</i> , 2016, 196, 4331-4337.	0.4	50
92	Alkaloptosis: a new weapon for cancer therapy. <i>Cancer Gene Therapy</i> , 2020, 27, 267-269.	2.2	46
93	Extracellular SQSTM1 mediates bacterial septic death in mice through insulin receptor signalling. <i>Nature Microbiology</i> , 2020, 5, 1576-1587.	5.9	45
94	The circadian clock protects against ferroptosis-induced sterile inflammation. <i>Biochemical and Biophysical Research Communications</i> , 2020, 525, 620-625.	1.0	44
95	Identification of HPCAL1 as a specific autophagy receptor involved in ferroptosis. <i>Autophagy</i> , 2023, 19, 54-74.	4.3	44
96	A novel lncRNA, TCONS_00006195, represses hepatocellular carcinoma progression by inhibiting enzymatic activity of ENO1. <i>Cell Death and Disease</i> , 2018, 9, 1184.	2.7	43
97	PPARG-mediated ferroptosis in dendritic cells limits antitumor immunity. <i>Biochemical and Biophysical Research Communications</i> , 2021, 576, 33-39.	1.0	43
98	Oncogenic KRAS blockade therapy: renewed enthusiasm and persistent challenges. <i>Molecular Cancer</i> , 2021, 20, 128.	7.9	41
99	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.	1.0	40
100	Mitophagy Receptors in Tumor Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 594203.	1.8	40
101	Inflammasome-Dependent Coagulation Activation in Sepsis. <i>Frontiers in Immunology</i> , 2021, 12, 641750.	2.2	38
102	High Mobility Group Box 1 (HMGB1) Phenotypic Role Revealed with Stress. <i>Molecular Medicine</i> , 2014, 20, 359-362.	1.9	37
103	Autophagy is required for IL-2-mediated fibroblast growth. <i>Experimental Cell Research</i> , 2013, 319, 556-565.	1.2	34
104	Plumbagin Protects Mice from Lethal Sepsis by Modulating Immunometabolism Upstream of PKM2. <i>Molecular Medicine</i> , 2016, 22, 162-172.	1.9	34
105	Pirin is a nuclear redox-sensitive modulator of autophagy-dependent ferroptosis. <i>Biochemical and Biophysical Research Communications</i> , 2021, 536, 100-106.	1.0	34
106	AMPK regulates immunometabolism in sepsis. <i>Brain, Behavior, and Immunity</i> , 2018, 72, 89-100.	2.0	33
107	Trypsin-Mediated Sensitization to Ferroptosis Increases the Severity of Pancreatitis in Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 483-500.	2.3	32
108	Crosstalk between hepatitis B virus X and high-mobility group box 1 facilitates autophagy in hepatocytes. <i>Molecular Oncology</i> , 2018, 12, 322-338.	2.1	31

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109	Damage-Associated Molecular Patterns and the Systemic Immune Consequences of Severe Thermal Injury. <i>Journal of Immunology</i> , 2020, 205, 1189-1197.	0.4	31
110	Cellular and molecular mechanisms of perineural invasion of pancreatic ductal adenocarcinoma. <i>Cancer Communications</i> , 2021, 41, 642-660.	3.7	29
111	Induction of autophagy-dependent ferroptosis to eliminate drug-tolerant human retinoblastoma cells. <i>Cell Death and Disease</i> , 2022, 13, .	2.7	29
112	AGER-Mediated Lipid Peroxidation Drives Caspase-11 Inflammasome Activation in Sepsis. <i>Frontiers in Immunology</i> , 2019, 10, 1904.	2.2	26
113	The dark side of ferroptosis in pancreatic cancer. <i>Oncotarget</i> , 2021, 10, 1868691.	2.1	26
114	The V-ATPases in cancer and cell death. <i>Cancer Gene Therapy</i> , 2022, 29, 1529-1541.	2.2	26
115	Nuclear DAMP complex-mediated RAGE-dependent macrophage cell death. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 650-655.	1.0	24
116	SMG9 drives ferroptosis by directly inhibiting GPX4 degradation. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 92-98.	1.0	24
117	Ferroptosis by Lipid Peroxidation: The Tip of the Iceberg?. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 646890.	1.8	19
118	The Multifaceted Effects of Autophagy on the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1225, 99-114.	0.8	18
119	Ion Channels and Transporters in Autophagy. <i>Autophagy</i> , 2022, 18, 4-23.	4.3	17
120	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.	1.4	17
121	Chloroquine in fighting COVID-19: good, bad, or both?. <i>Autophagy</i> , 2020, 16, 2273-2275.	4.3	15
122	Targeting NF- $\kappa$ B-dependent apoptosis for the treatment of venetoclax-resistant acute myeloid leukemia cells. <i>Biochemical and Biophysical Research Communications</i> , 2021, 562, 55-61.	1.0	15
123	Cyclophosphamide-induced GPX4 degradation triggers parthanatos by activating AIFM1. <i>Biochemical and Biophysical Research Communications</i> , 2022, 606, 68-74.	1.0	14
124	The cGAS-STING pathway connects mitochondrial damage to inflammation in burn-induced acute lung injury in rat. <i>Burns</i> , 2022, 48, 168-175.	1.1	13
125	STING1 in sepsis: Mechanisms, functions, and implications. <i>Chinese Journal of Traumatology - English Edition</i> , 2022, 25, 1-10.	0.7	13
126	Novel chemokine-like activities of histones in tumor metastasis. <i>Oncotarget</i> , 2016, 7, 61728-61740.	0.8	13



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127	The HMGB1-AGER-STING1 pathway mediates the sterile inflammatory response to alkaliptosis. <i>Biochemical and Biophysical Research Communications</i> , 2021, 560, 165-171.	1.0	12
128	Itaconic acid induces ferroptosis by activating ferritinophagy. <i>Biochemical and Biophysical Research Communications</i> , 2021, 583, 56-62.	1.0	12
129	The Art of War: Ferroptosis and Pancreatic Cancer. <i>Frontiers in Pharmacology</i> , 2021, 12, 773909.	1.6	12
130	Monitoring autophagy-dependent ferroptosis. <i>Methods in Cell Biology</i> , 2021, 165, 163-176.	0.5	10
131	Mitophagy in Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 616079.	1.3	10
132	Heterodimeric RGD-NGR PET Tracer for the Early Detection of Pancreatic Cancer. <i>Molecular Imaging and Biology</i> , 2022, 24, 580-589.	1.3	8
133	The STING-STAT6 pathway drives Cas9-induced host response in human monocytes. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 278-283.	1.0	6
134	Metabolic checkpoint of ferroptosis resistance. <i>Molecular and Cellular Oncology</i> , 2021, 8, 1901558.	0.3	6
135	Pharmacological Modulation of BET Family in Sepsis. <i>Frontiers in Pharmacology</i> , 2021, 12, 642294.	1.6	6
136	Targeting HSP90 sensitizes pancreas carcinoma to PD-1 blockade. <i>Oncolmmunology</i> , 2022, 11, 2068488.	2.1	6
137	The Dual Role of HMGB1 in Pancreatic Cancer. <i>Journal of Pancreatology</i> , 2018, 1, 19-24.	0.3	3
138	Upstream open reading frames mediate autophagy-related protein translation. <i>Autophagy</i> , 2023, 19, 457-473.	4.3	3
139	HSP90 as an emerging barrier to immune checkpoint blockade therapy. <i>Oncoscience</i> , 2022, 9, 20-22.	0.9	2
140	CDK1/2/5 blockade: killing two birds with one stone. <i>Oncolmmunology</i> , 2021, 10, 1875612.	2.1	1
141	Response to comment on "ALK is a therapeutic target for lethal sepsis". <i>Science Translational Medicine</i> , 2018, 10, .	5.8	0