Rui Kang

List of Publications by Year
in descending order

141 papers	32,777 citations	8755 75 h-index	9861 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). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Ferroptosis: molecular mechanisms and health implications. Cell Research, 2021, 31, 107-125.	12.0	1,406
4	The molecular machinery of regulated cell death. Cell Research, 2019, 29, 347-364.	12.0	1,373
5	Autophagy promotes ferroptosis by degradation of ferritin. Autophagy, 2016, 12, 1425-1428.	9.1	1,318
6	Activation of the p62â€Keap1â€NRF2 pathway protects against ferroptosis in hepatocellular carcinoma cells. Hepatology, 2016, 63, 173-184.	7.3	1,263
7	Broadening horizons: the role of ferroptosis in cancer. Nature Reviews Clinical Oncology, 2021, 18, 280-296.	27.6	1,216
8	Ferroptosis: machinery and regulation. Autophagy, 2021, 17, 2054-2081.	9.1	765
9	HMGB1 in health and disease. Molecular Aspects of Medicine, 2014, 40, 1-116.	6.4	763
10	Identification of ACSL4 as a biomarker and contributor of ferroptosis. Biochemical and Biophysical Research Communications, 2016, 478, 1338-1343.	2.1	650
11	The Tumor Suppressor p53 Limits Ferroptosis by Blocking DPP4 Activity. Cell Reports, 2017, 20, 1692-1704.	6.4	608
12	Ferroptosis is a type of autophagy-dependent cell death. Seminars in Cancer Biology, 2020, 66, 89-100.	9.6	552
13	AMPK-Mediated BECN1 Phosphorylation Promotes Ferroptosis by Directly Blocking System Xcâ€“ Activity. Current Biology, 2018, 28, 2388-2399.e5.	3.9	471
14	Metallothioneinâ€1G facilitates sorafenib resistance through inhibition of ferroptosis. Hepatology, 2016, 64, 488-500.	7.3	462
15	Iron Metabolism in Ferroptosis. Frontiers in Cell and Developmental Biology, 2020, 8, 590226.	3.7	408
16	HMGB1 in Cancer: Good, Bad, or Both?. Clinical Cancer Research, 2013, 19, 4046-4057.	7.0	399
17	Autophagy-Dependent Ferroptosis: Machinery and Regulation. Cell Chemical Biology, 2020, 27, 420-435.	5.2	399
18	Lipid Peroxidation Drives Gasdermin D-Mediated Pyroptosis in Lethal Polymicrobial Sepsis. Cell Host and Microbe, 2018, 24, 97-108.e4.	11.0	390

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19	The tumor suppressor protein p53 and the ferroptosis network. Free Radical Biology and Medicine, 2019, 133, 162-168.	2.9	384
20	PKM2-dependent glycolysis promotes NLRP3 and AIM2 inflammasome activation. Nature Communications, 2016, 7, 13280.	12.8	356
21	HSPA5 Regulates Ferroptotic Cell Death in Cancer Cells. Cancer Research, 2017, 77, 2064-2077.	0.9	353
22	The release and activity of HMGB1 in ferroptosis. Biochemical and Biophysical Research Communications, 2019, 510, 278-283.	2.1	350
23	PKM2 regulates the Warburg effect and promotes HMGB1 release in sepsis. Nature Communications, 2014, 5, 4436.	12.8	346
24	The hallmarks of COVID-19 disease. PLoS Pathogens, 2020, 16, e1008536.	4.7	342
25	CISD1 inhibits ferroptosis by protection against mitochondrial lipid peroxidation. Biochemical and Biophysical Research Communications, 2016, 478, 838-844.	2.1	341
26	Autophagy-dependent ferroptosis drives tumor-associated macrophage polarization via release and uptake of oncogenic KRAS protein. Autophagy, 2020, 16, 2069-2083.	9.1	319
27	The ferroptosis inducer erastin enhances sensitivity of acute myeloid leukemia cells to chemotherapeutic agents. Molecular and Cellular Oncology, 2015, 2, e1054549.	0.7	301
28	Ferroptosis in infection, inflammation, and immunity. Journal of Experimental Medicine, 2021, 218, .	8.5	298
29	Clockophagy is a novel selective autophagy process favoring ferroptosis. Science Advances, 2019, 5, eaaw2238.	10.3	286
30	Cellular degradation systems in ferroptosis. Cell Death and Differentiation, 2021, 28, 1135-1148.	11.2	283
31	Lipid storage and lipophagy regulates ferroptosis. Biochemical and Biophysical Research Communications, 2019, 508, 997-1003.	2.1	281
32	Oxidative Damage and Antioxidant Defense in Ferroptosis. Frontiers in Cell and Developmental Biology, 2020, 8, 586578.	3.7	265
33	Mitochondrial DNA stress triggers autophagy-dependent ferroptotic death. Autophagy, 2021, 17, 948-960.	9.1	228
34	The mechanism of HMGB1 secretion and release. Experimental and Molecular Medicine, 2022, 54, 91-102.	7.7	225
35	Oxidative stress-mediated HMGB1 biology. Frontiers in Physiology, 2015, 6, 93.	2.8	210
36	Ferroptotic damage promotes pancreatic tumorigenesis through a TMEM173/STING-dependent DNA sensor pathway. Nature Communications, 2020, 11, 6339.	12.8	201

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37	Intracellular Hmgb1 Inhibits Inflammatory Nucleosome Release and Limits Acute Pancreatitis in Mice. Gastroenterology, 2014, 146, 1097-1107.e8.	1.3	200
38	Characteristics and Biomarkers of Ferroptosis. Frontiers in Cell and Developmental Biology, 2021, 9, 637162.	3.7	199
39	HMGB1: A novel Beclin 1-binding protein active in autophagy. Autophagy, 2010, 6, 1209-1211.	9.1	183
40	Signaling pathways and defense mechanisms of ferroptosis. FEBS Journal, 2022, 289, 7038-7050.	4.7	177
41	PINK1 and PARK2 Suppress Pancreatic Tumorigenesis through Control of Mitochondrial Iron-Mediated Immunometabolism. Developmental Cell, 2018, 46, 441-455.e8.	7.0	176
42	Identification of baicalein as a ferroptosis inhibitor by natural product library screening. Biochemical and Biophysical Research Communications, 2016, 473, 775-780.	2.1	174
43	Ferroptosis is a lysosomal cell death process. Biochemical and Biophysical Research Communications, 2018, 503, 1550-1556.	2.1	172
44	Cell death in pancreatic cancer: from pathogenesis to therapy. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 804-823.	17.8	156
45	ESCRT-IIIâ€“dependent membrane repair blocks ferroptosis. Biochemical and Biophysical Research Communications, 2020, 522, 415-421.	2.1	143
46	Transcription factors in ferroptotic cell death. Cancer Gene Therapy, 2020, 27, 645-656.	4.6	141
47	AIFM2 blocks ferroptosis independent of ubiquinol metabolism. Biochemical and Biophysical Research Communications, 2020, 523, 966-971.	2.1	138
48	Organelle-specific regulation of ferroptosis. Cell Death and Differentiation, 2021, 28, 2843-2856.	11.2	138
49	Inhibition of Aurora Kinase A Induces Necroptosis inÂPancreaticÂCarcinoma. Gastroenterology, 2017, 153, 1429-1443.e5.	1.3	137
50	FANCD2 protects against bone marrow injury from ferroptosis. Biochemical and Biophysical Research Communications, 2016, 480, 443-449.	2.1	136
51	The BET family in immunity and disease. Signal Transduction and Targeted Therapy, 2021, 6, 23.	17.1	135
52	Interplay between MTOR and GPX4 signaling modulates autophagy-dependent ferroptotic cancer cell death. Cancer Gene Therapy, 2021, 28, 55-63.	4.6	134
53	Autophagy and Ferroptosisâ€"What Is the Connection?. Current Pathobiology Reports, 2017, 5, 153-159.	3.4	133
54	NUPR1 is a critical repressor of ferroptosis. Nature Communications, 2021, 12, 647.	12.8	126

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55	The long non-coding RNA TP73-AS1 modulates HCC cell proliferation through miR-200a-dependent HMGB1/RAGE regulation. Journal of Experimental and Clinical Cancer Research, 2017, 36, 51.	8.6	122
56	The Circadian Clock Controls Immune Checkpoint Pathway in Sepsis. Cell Reports, 2018, 24, 366-378.	6.4	120
57	Cell Death and DAMPs in Acute Pancreatitis. Molecular Medicine, 2014, 20, 466-477.	4.4	119
58	TMEM173 Drives Lethal Coagulation in Sepsis. Cell Host and Microbe, 2020, 27, 556-570.e6.	11.0	119
59	HMGB1 as a potential biomarker and therapeutic target for severe COVID-19. Heliyon, 2020, 6, e05672.	3.2	118
60	DAMPs, ageing, and cancer: The â€˜DAMP Hypothesisâ€™. Ageing Research Reviews, 2015, 24, 3-16.	10.9	117
61	Tumor heterogeneity in autophagy-dependent ferroptosis. Autophagy, 2021, 17, 3361-3374.	9.1	116
62	Interplay Between Lipid Metabolism and Autophagy. Frontiers in Cell and Developmental Biology, 2020, 8, 431.	3.7	115
63	PDK4 dictates metabolic resistance to ferroptosis by suppressing pyruvate oxidation and fatty acid synthesis. Cell Reports, 2021, 34, 108767.	6.4	112
64	JTC801 Induces pH-dependent Death Specifically in Cancer Cells and Slows Growth of Tumors in Mice. Gastroenterology, 2018, 154, 1480-1493.	1.3	105
65	The STING1 network regulates autophagy and cell death. Signal Transduction and Targeted Therapy, 2021, 6, 208.	17.1	105
66	Metabolic regulation by HMGB1-mediated autophagy and mitophagy. Autophagy, 2011, 7, 1256-1258.	9.1	102
67	Emerging Role of High-Mobility Group Box 1 (HMGB1) in Liver Diseases. Molecular Medicine, 2013, 19, 357-366.	4.4	98
68	MGST1 is a redox-sensitive repressor of ferroptosis in pancreatic cancer cells. Cell Chemical Biology, 2021, 28, 765-775.e5.	5.2	98
69	ALK is a therapeutic target for lethal sepsis. Science Translational Medicine, 2017, 9, .	12.4	90
70	cAMP metabolism controls caspase-11 inflammasome activation and pyroptosis in sepsis. Science Advances, 2019, 5, eaav5562.	10.3	89
71	Regulation and function of autophagy in pancreatic cancer. Autophagy, 2021, 17, 3275-3296.	9.1	89
72	High mobility group protein B1 controls liver cancer initiation through yesâ€associated protein â€dependent aerobic glycolysis. Hepatology, 2018, 67, 1823-1841.	7.3	88

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73	ACOD1 in immunometabolism and disease. Cellular and Molecular Immunology, 2020, 17, 822-833.	10.5	88
74	PKR-Dependent Inflammatory Signals. Science Signaling, 2012, 5, pe47.	3.6	86
75	NEDD4L-mediated LTF protein degradation limits ferroptosis. Biochemical and Biophysical Research Communications, 2020, 531, 581-587.	2.1	86
76	AGER/RAGE-mediated autophagy promotes pancreatic tumorigenesis and bioenergetics through the IL6-pSTAT3 pathway. Autophagy, 2012, 8, 989-991.	9.1	82
77	HMGB1 as an autophagy sensor in oxidative stress. Autophagy, 2011, 7, 904-906.	9.1	79
78	A novel PINK1- and PARK2-dependent protective neuroimmune pathway in lethal sepsis. Autophagy, 2016, 12, 2374-2385.	9.1	78
79	Targeting ferroptosis in pancreatic cancer: a double-edged sword. Trends in Cancer, 2021, 7, 891-901.	7.4	78
80	RAGE regulates autophagy and apoptosis following oxidative injury. Autophagy, 2011, 7, 442-444.	9.1	71
81	The Versatile Gasdermin Family: Their Function and Roles in Diseases. Frontiers in Immunology, 2021, 12, 751533.	4.8	70
82	The KRAS-G12C inhibitor: activity and resistance. Cancer Gene Therapy, 2022, 29, 875-878.	4.6	69
83	Lipid Metabolism in Ferroptosis. Advanced Biology, 2021, 5, e2100396.	2.5	65
84	ESCRT-III-mediated membrane repair in cell death and tumor resistance. Cancer Gene Therapy, 2021, 28, 1-4.	4.6	60
85	Antiferroptotic activity of non-oxidative dopamine. Biochemical and Biophysical Research Communications, 2016, 480, 602-607.	2.1	59
86	Cathepsin B is a mediator of organelle-specific initiation of ferroptosis. Biochemical and Biophysical Research Communications, 2020, 533, 1464-1469.	2.1	59
87	CDK1/2/5 inhibition overcomes IFNG-mediated adaptive immune resistance in pancreatic cancer. Gut, 2021, 70, 890-899.	12.1	59
88	STING1 Promotes Ferroptosis Through MFN1/2-Dependent Mitochondrial Fusion. Frontiers in Cell and Developmental Biology, 2021, 9, 698679.	3.7	54
89	Emerging mechanisms of immunocoagulation in sepsis and septic shock. Trends in Immunology, 2021, 42, 508-522.	6.8	51
90	DCN released from ferroptotic cells ignites AGER-dependent immune responses. Autophagy, 2022, 18, 2036-2049.	9.1	51

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91	The Receptor for Advanced Glycation End Products Activates the AIM2 Inflammasome in Acute Pancreatitis. Journal of Immunology, 2016, 196, 4331-4337.	0.8	50
92	Alkaliptosis: a new weapon for cancer therapy. Cancer Gene Therapy, 2020, 27, 267-269.	4.6	46
93	Extracellular SQSTM1 mediates bacterial septic death in mice through insulin receptor signalling. Nature Microbiology, 2020, 5, 1576-1587.	13.3	45
94	The circadian clock protects against ferroptosis-induced sterile inflammation. Biochemical and Biophysical Research Communications, 2020, 525, 620-625.	2.1	44
95	Identification of HPCAL1 as a specific autophagy receptor involved in ferroptosis. Autophagy, 2023, 19, 54-74.	9.1	44
96	A novel lncRNA, TCONS_00006195, represses hepatocellular carcinoma progression by inhibiting enzymatic activity of ENO1. Cell Death and Disease, 2018, 9, 1184.	6.3	43
97	PPARG-mediated ferroptosis in dendritic cells limits antitumor immunity. Biochemical and Biophysical Research Communications, 2021, 576, 33-39.	2.1	43
98	Oncogenic KRAS blockade therapy: renewed enthusiasm and persistent challenges. Molecular Cancer, 2021, 20, 128.	19.2	41
99	The ferroptosis inducer erastin promotes proliferation and differentiation in human peripheral blood mononuclear cells. Biochemical and Biophysical Research Communications, 2018, 503, 1689-1695.	2.1	40
100	Mitophagy Receptors in Tumor Biology. Frontiers in Cell and Developmental Biology, 2020, 8, 594203.	3.7	40
101	Inflammasome-Dependent Coagulation Activation in Sepsis. Frontiers in Immunology, 2021, 12, 641750.	4.8	38
102	High Mobility Group Box 1 (HMGB1) Phenotypic Role Revealed with Stress. Molecular Medicine, 2014, 20, 359-362.	4.4	37
103	Autophagy is required for IL-2-mediated fibroblast growth. Experimental Cell Research, 2013, 319, 556-565.	2.6	34
104	Plumbagin Protects Mice from Lethal Sepsis by Modulating Immunometabolism Upstream of PKM2. Molecular Medicine, 2016, 22, 162-172.	4.4	34
105	Pirin is a nuclear redox-sensitive modulator of autophagy-dependent ferroptosis. Biochemical and Biophysical Research Communications, 2021, 536, 100-106.	2.1	34
106	AMPK regulates immunometabolism in sepsis. Brain, Behavior, and Immunity, 2018, 72, 89-100.	4.1	33
107	Trypsin-Mediated Sensitization to Ferroptosis Increases the Severity of Pancreatitis in Mice. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 483-500.	4.5	32
108	Crosstalk between hepatitis B virus X and highâ€mobility group box 1 facilitates autophagy in hepatocytes. Molecular Oncology, 2018, 12, 322-338.	4.6	31

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109	Damage-Associated Molecular Patterns and the Systemic Immune Consequences of Severe Thermal Injury. Journal of Immunology, 2020, 205, 1189-1197.	0.8	31
110	Cellular and molecular mechanisms of perineural invasion of pancreatic ductal adenocarcinoma. Cancer Communications, 2021, 41, 642-660.	9.2	29
111	Induction of autophagy-dependent ferroptosis to eliminate drug-tolerant human retinoblastoma cells. Cell Death and Disease, 2022, 13, .	6.3	29
112	AGER-Mediated Lipid Peroxidation Drives Caspase-11 Inflammasome Activation in Sepsis. Frontiers in Immunology, 2019, 10, 1904.	4.8	26
113	The dark side of ferroptosis in pancreatic cancer. OncoImmunology, 2021, 10, 1868691.	4.6	26
114	The V-ATPases in cancer and cell death. Cancer Gene Therapy, 2022, 29, 1529-1541.	4.6	26
115	Nuclear DAMP complex-mediated RAGE-dependent macrophage cellÂdeath. Biochemical and Biophysical Research Communications, 2015, 458, 650-655.	2.1	24
116	SMG9 drives ferroptosis by directly inhibiting GPX4 degradation. Biochemical and Biophysical Research Communications, 2021, 567, 92-98.	2.1	24
117	Ferroptosis by Lipid Peroxidation: The Tip of the Iceberg?. Frontiers in Cell and Developmental Biology, 2021, 9, 646890.	3.7	19
118	The Multifaceted Effects of Autophagy on the Tumor Microenvironment. Advances in Experimental Medicine and Biology, 2020, 1225, 99-114.	1.6	18
119	Ion Channels and Transporters in Autophagy. Autophagy, 2022, 18, 4-23.	9.1	17
120	Reactive oxygen species regulate the differentiation of acute promyelocytic leukemia cells through HMGB1-mediated autophagy. American Journal of Cancer Research, 2015, 5, 714-25.	1.4	17
121	Chloroquine in fighting COVID-19: good, bad, or both?. Autophagy, 2020, 16, 2273-2275.	9.1	15
122	Targeting NF-ÎºBâ€“dependent alkaliptosis for the treatment of venetoclax-resistant acute myeloid leukemia cells. Biochemical and Biophysical Research Communications, 2021, 562, 55-61.	2.1	15
123	Cyclophosphamide-induced GPX4 degradation triggers parthanatos by activating AIFM1. Biochemical and Biophysical Research Communications, 2022, 606, 68-74.	2.1	14
124	The cGAS-STING pathway connects mitochondrial damage to inflammation in burn-induced acute lung injury in rat. Burns, 2022, 48, 168-175.	1.9	13
125	STING1 in sepsis: Mechanisms, functions, and implications. Chinese Journal of Traumatology - English Edition, 2022, 25, 1-10.	1.4	13
126	Novel chemokine-like activities of histones in tumor metastasis. Oncotarget, 2016, 7, 61728-61740.	1.8	13

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127	The HMGB1-AGER-STING1 pathway mediates the sterile inflammatory response to alkaliptosis. Biochemical and Biophysical Research Communications, 2021, 560, 165-171.	2.1	12
128	Itaconic acid induces ferroptosis by activating ferritinophagy. Biochemical and Biophysical Research Communications, 2021, 583, 56-62.	2.1	12
129	The Art of War: Ferroptosis and Pancreatic Cancer. Frontiers in Pharmacology, 2021, 12, 773909.	3.5	12
130	Monitoring autophagy-dependent ferroptosis. Methods in Cell Biology, 2021, 165, 163-176.	1.1	10
131	Mitophagy in Pancreatic Cancer. Frontiers in Oncology, 2021, 11, 616079.	2.8	10
132	Heterodimeric RGD-NGR PET Tracer for the Early Detection of Pancreatic Cancer. Molecular Imaging and Biology, 2022, 24, 580-589.	2.6	8
133	The STING-STAT6 pathway drives Cas9-induced host response in human monocytes. Biochemical and Biophysical Research Communications, 2018, 506, 278-283.	2.1	6
134	Metabolic checkpoint of ferroptosis resistance. Molecular and Cellular Oncology, 2021, 8, 1901558.	0.7	6
135	Pharmacological Modulation of BET Family in Sepsis. Frontiers in Pharmacology, 2021, 12, 642294.	3.5	6
136	Targeting HSP90 sensitizes pancreas carcinoma to PD-1 blockade. OncoImmunology, 2022, 11, 2068488.	4.6	6
137	The Dual Role of HMGB1 in Pancreatic Cancer. Journal of Pancreatology, 2018, 1, 19-24.	0.9	3
138	Upstream open reading frames mediate autophagy-related protein translation. Autophagy, 2023, 19, 457-473.	9.1	3
139	HSP90 as an emerging barrier to immune checkpoint blockade therapy. Oncoscience, 2022, 9, 20-22.	2.2	2
140	CDK1/2/5 blockade: killing two birds with one stone. OncoImmunology, 2021, 10, 1875612.	4.6	1
141	Response to comment on â€œALK is a therapeutic target for lethal sepsisâ€. Science Translational Medicine, 2018, 10, .	12.4	0