

Xiaodong Wang

List of Publications by Year in descending order

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278
papers

68,874
citations

2963

93
h-index

621

258
g-index

286
all docs

286
docs citations

286
times ranked

47854
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytochrome c and dATP-Dependent Formation of Apaf-1/Caspase-9 Complex Initiates an Apoptotic Protease Cascade. <i>Cell</i> , 1997, 91, 479-489.	13.5	6,625
2	Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c. <i>Cell</i> , 1996, 86, 147-157.	13.5	4,808
3	Prevention of Apoptosis by Bcl-2: Release of Cytochrome c from Mitochondria Blocked. <i>Science</i> , 1997, 275, 1129-1132.	6.0	4,648
4	Bid, a Bcl2 Interacting Protein, Mediates Cytochrome c Release from Mitochondria in Response to Activation of Cell Surface Death Receptors. <i>Cell</i> , 1998, 94, 481-490.	13.5	3,278
5	Smac, a Mitochondrial Protein that Promotes Cytochrome c-Dependent Caspase Activation by Eliminating IAP Inhibition. <i>Cell</i> , 2000, 102, 33-42.	13.5	3,149
6	Apaf-1, a Human Protein Homologous to <i>C. elegans</i> CED-4, Participates in Cytochrome c-Dependent Activation of Caspase-3. <i>Cell</i> , 1997, 90, 405-413.	13.5	2,941
7	Biochemical Pathways of Caspase Activation During Apoptosis. <i>Annual Review of Cell and Developmental Biology</i> , 1999, 15, 269-290.	4.0	2,313
8	Mixed Lineage Kinase Domain-like Protein Mediates Necrosis Signaling Downstream of RIP3 Kinase. <i>Cell</i> , 2012, 148, 213-227.	13.5	2,056
9	Receptor Interacting Protein Kinase-3 Determines Cellular Necrotic Response to TNF- α . <i>Cell</i> , 2009, 137, 1100-1111.	13.5	1,882
10	An APAF-1-Cytochrome c Multimeric Complex Is a Functional Apoptosome That Activates Procaspase-9. <i>Journal of Biological Chemistry</i> , 1999, 274, 11549-11556.	1.6	1,789
11	DFF, a Heterodimeric Protein That Functions Downstream of Caspase-3 to Trigger DNA Fragmentation during Apoptosis. <i>Cell</i> , 1997, 89, 175-184.	13.5	1,758
12	Endonuclease G is an apoptotic DNase when released from mitochondria. <i>Nature</i> , 2001, 412, 95-99.	13.7	1,526
13	Mixed Lineage Kinase Domain-like Protein MLKL Causes Necrotic Membrane Disruption upon Phosphorylation by RIP3. <i>Molecular Cell</i> , 2014, 54, 133-146.	4.5	1,247
14	CytochromeC-Mediated Apoptosis. <i>Annual Review of Biochemistry</i> , 2004, 73, 87-106.	5.0	1,217
15	TNF- α Induces Two Distinct Caspase-8 Activation Pathways. <i>Cell</i> , 2008, 133, 693-703.	13.5	1,169
16	SREBP-1, a membrane-bound transcription factor released by sterol-regulated proteolysis. <i>Cell</i> , 1994, 77, 53-62.	13.5	954
17	Structural basis of IAP recognition by Smac/DIABLO. <i>Nature</i> , 2000, 408, 1008-1012.	13.7	806
18	The Mitochondrial Phosphatase PGAM5 Functions at the Convergence Point of Multiple Necrotic Death Pathways. <i>Cell</i> , 2012, 148, 228-243.	13.5	799

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19	Structural and biochemical basis of apoptotic activation by Smac/DIABLO. <i>Nature</i> , 2000, 406, 855-862.	13.7	783
20	Three-Dimensional Structure of the Apoptosome. <i>Molecular Cell</i> , 2002, 9, 423-432.	4.5	767
21	Mule/ARF-BP1, a BH3-Only E3 Ubiquitin Ligase, Catalyzes the Polyubiquitination of Mcl-1 and Regulates Apoptosis. <i>Cell</i> , 2005, 121, 1085-1095.	13.5	756
22	Argonaute2 Cleaves the Anti-Guide Strand of siRNA during RISC Activation. <i>Cell</i> , 2005, 123, 621-629.	13.5	675
23	A Small Molecule Smac Mimic Potentiates TRAIL- and TNF α -Mediated Cell Death. <i>Science</i> , 2004, 305, 1471-1474.	6.0	643
24	R2D2, a Bridge Between the Initiation and Effector Steps of the Drosophila RNAi Pathway. <i>Science</i> , 2003, 301, 1921-1925.	6.0	640
25	Toll-like receptors activate programmed necrosis in macrophages through a receptor-interacting kinase-3 α mediated pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20054-20059.	3.3	583
26	SREBP-2, a second basic-helix-loop-helix-leucine zipper protein that stimulates transcription by binding to a sterol regulatory element. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 11603-11607.	3.3	563
27	Autocrine TNF α Signaling Renders Human Cancer Cells Susceptible to Smac-Mimetic-Induced Apoptosis. <i>Cancer Cell</i> , 2007, 12, 445-456.	7.7	559
28	Elimination of Mcl-1 is required for the initiation of apoptosis following ultraviolet irradiation. <i>Genes and Development</i> , 2003, 17, 1475-1486.	2.7	517
29	The 40-kDa subunit of DNA fragmentation factor induces DNA fragmentation and chromatin condensation during apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8461-8466.	3.3	512
30	Cytochrome c Deficiency Causes Embryonic Lethality and Attenuates Stress-Induced Apoptosis. <i>Cell</i> , 2000, 101, 389-399.	13.5	462
31	Nutrient starvation elicits an acute autophagic response mediated by Ulk1 dephosphorylation and its subsequent dissociation from AMPK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4788-4793.	3.3	449
32	Cardiolipin provides specificity for targeting of tBid to mitochondria. <i>Nature Cell Biology</i> , 2000, 2, 754-756.	4.6	435
33	Cytochrome c Promotes Caspase-9 Activation by Inducing Nucleotide Binding to Apaf-1. <i>Journal of Biological Chemistry</i> , 2000, 275, 31199-31203.	1.6	424
34	Silica encapsulation of n-octadecane via sol-gel process: A novel microencapsulated phase-change material with enhanced thermal conductivity and performance. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 246-255.	5.0	419
35	Microencapsulation of n-octadecane phase change material with calcium carbonate shell for enhancement of thermal conductivity and serving durability: Synthesis, microstructure, and performance evaluation. <i>Applied Energy</i> , 2014, 114, 632-643.	5.1	416
36	Mitochondrial endonuclease G is important for apoptosis in <i>C. elegans</i> . <i>Nature</i> , 2001, 412, 90-94.	13.7	397

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37	Distinctive Roles of PHAP Proteins and Prothymosin-alpha in a Death Regulatory Pathway. <i>Science</i> , 2003, 299, 223-226.	6.0	375
38	Degradation of Mcl-1 by β -TrCP Mediates Glycogen Synthase Kinase 3-Induced Tumor Suppression and Chemosensitization. <i>Molecular and Cellular Biology</i> , 2007, 27, 4006-4017.	1.1	348
39	Dark is a Drosophila homologue of Apaf-1/CED-4 and functions in an evolutionarily conserved death pathway. <i>Nature Cell Biology</i> , 1999, 1, 272-279.	4.6	315
40	Apoptosis in Neural Development and Disease. <i>Annual Review of Neuroscience</i> , 2000, 23, 73-87.	5.0	295
41	Formation of apoptosome is initiated by cytochrome c-induced dATP hydrolysis and subsequent nucleotide exchange on Apaf-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17545-17550.	3.3	280
42	Biochemical identification of Argonaute 2 as the sole protein required for RNA-induced silencing complex activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14385-14389.	3.3	278
43	Membrane Damage during Ferroptosis Is Caused by Oxidation of Phospholipids Catalyzed by the Oxidoreductases POR and CYB5R1. <i>Molecular Cell</i> , 2021, 81, 355-369.e10.	4.5	272
44	Specific Ablation of the Apoptotic Functions of Cytochrome c Reveals a Differential Requirement for Cytochrome c and Apaf-1 in Apoptosis. <i>Cell</i> , 2005, 121, 579-591.	13.5	257
45	Fabrication and performances of microencapsulated phase change materials based on n-octadecane core and resorcinol-modified melamine-formaldehyde shell. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 332, 129-138.	2.3	239
46	Synthesis and properties of microencapsulated n-octadecane with polyurea shells containing different soft segments for heat energy storage and thermal regulation. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1366-1376.	3.0	233
47	Development of bifunctional microencapsulated phase change materials with crystalline titanium dioxide shell for latent-heat storage and photocatalytic effectiveness. <i>Applied Energy</i> , 2015, 138, 661-674.	5.1	209
48	New approach for sol-gel synthesis of microencapsulated n-octadecane phase change material with silica wall using sodium silicate precursor. <i>Energy</i> , 2014, 67, 223-233.	4.5	202
49	Synthesis, characterization, thermal properties and flame retardancy of a novel nonflammable phosphazene-based epoxy resin. <i>Polymer Degradation and Stability</i> , 2009, 94, 617-624.	2.7	197
50	Innovative design of microencapsulated phase change materials for thermal energy storage and versatile applications: a review. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1091-1149.	2.5	194
51	DFF45/ICAD Can Be Directly Processed by Granzyme B during the Induction of Apoptosis. <i>Immunity</i> , 2000, 12, 621-632.	6.6	189
52	Adult Apaf-1-Deficient Mice Exhibit Male Infertility. <i>Developmental Biology</i> , 2000, 218, 248-258.	0.9	188
53	A Plug Release Mechanism for Membrane Permeation by MLKL. <i>Structure</i> , 2014, 22, 1489-1500.	1.6	185
54	The ER UDPase ENTPD5 Promotes Protein N-Glycosylation, the Warburg Effect, and Proliferation in the PTEN Pathway. <i>Cell</i> , 2010, 143, 711-724.	13.5	184

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55	Activation of mitochondrial protease OMA1 by Bax and Bak promotes cytochrome c release during apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14782-14787.	3.3	177
56	AMPK and mTOR coordinate the regulation of Ulk1 and mammalian autophagy initiation. <i>Autophagy</i> , 2011, 7, 924-926.	4.3	176
57	RIP kinases as modulators of inflammation and immunity. <i>Nature Immunology</i> , 2018, 19, 912-922.	7.0	174
58	Upregulation of human autophagy-initiation kinase ULK1 by tumor suppressor p53 contributes to DNA-damage-induced cell death. <i>Cell Death and Differentiation</i> , 2011, 18, 1598-1607.	5.0	167
59	Generation and Characterization of Smac/DIABLO-Deficient Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 3509-3517.	1.1	163
60	Fabrication of microencapsulated phase change materials based on n-octadecane core and silica shell through interfacial polycondensation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 389, 104-117.	2.3	163
61	Design and synthesis of magnetic microcapsules based on n-icosane core and Fe ₃ O ₄ /SiO ₂ hybrid shell for dual-functional phase change materials. <i>Applied Energy</i> , 2014, 134, 456-468.	5.1	159
62	Cleavage Preferences of the Apoptotic Endonuclease DFF40 (Caspase-activated DNase or Nuclease) on Naked DNA and Chromatin Substrates. <i>Journal of Biological Chemistry</i> , 2000, 275, 8226-8232.	1.6	156
63	Peli1 promotes microglia-mediated CNS inflammation by regulating Traf3 degradation. <i>Nature Medicine</i> , 2013, 19, 595-602.	15.2	156
64	Activation of the Apoptotic Endonuclease DFF40 (Caspase-activated DNase or Nuclease). <i>Journal of Biological Chemistry</i> , 1999, 274, 13836-13840.	1.6	153
65	Action of Recombinant Human Apoptotic Endonuclease G on Naked DNA and Chromatin Substrates. <i>Journal of Biological Chemistry</i> , 2001, 276, 48404-48409.	1.6	149
66	Nucleotide Requirements for the in Vitro Activation of the Apoptosis Protein-activating Factor-1-mediated Caspase Pathway. <i>Journal of Biological Chemistry</i> , 2000, 275, 29-34.	1.6	148
67	A Structure of the Human Apoptosome at 12.8 Å... Resolution Provides Insights into This Cell Death Platform. <i>Structure</i> , 2005, 13, 1725-1735.	1.6	145
68	Human IgG Fc-glycosylation profiling reveals associations with age, sex, female sex hormones and thyroid cancer. <i>Journal of Proteomics</i> , 2012, 75, 2824-2834.	1.2	137
69	A cytosolic heat shock protein 90 and cochaperone CDC37 complex is required for RIP3 activation during necroptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5017-5022.	3.3	132
70	Purification of an Interleukin-1 β Converting Enzyme-related Cysteine Protease That Cleaves Sterol Regulatory Element-binding Proteins between the Leucine Zipper and Transmembrane Domains. <i>Journal of Biological Chemistry</i> , 1995, 270, 18044-18050.	1.6	131
71	Novel Spirocyclic Phosphazene-Based Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Curing Behaviors, and Flammability Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4047-4061.	4.0	131
72	Fabrication of multifunctional microcapsules containing n-icosane core and zinc oxide shell for low-temperature energy storage, photocatalysis, and antibiosis. <i>Energy Conversion and Management</i> , 2015, 106, 873-885.	4.4	130

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73	Novel low- $\hat{\eta}$ polyimide/mesoporous silica composite films: Preparation, microstructure, and properties. <i>Polymer</i> , 2007, 48, 318-329.	1.8	129
74	Synthesis, characterization, and cure properties of phosphorus-containing epoxy resins for flame retardance. <i>European Polymer Journal</i> , 2004, 40, 385-395.	2.6	124
75	The pro-apoptotic Bcl-2 family member tBid localizes to mitochondrial contact sites. <i>BMC Cell Biology</i> , 2001, 2, 22.	3.0	122
76	Diazonamide toxins reveal an unexpected function for ornithine $\hat{\text{A}}$ -amino transferase in mitotic cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2068-2073.	3.3	122
77	Three-dimensional Structure of a Double Apoptosome Formed by the Drosophila Apaf-1 Related Killer. <i>Journal of Molecular Biology</i> , 2006, 355, 577-589.	2.0	120
78	Structure of an Apoptosome-Procaspase-9 CARD Complex. <i>Structure</i> , 2010, 18, 571-583.	1.6	118
79	A Mutational Epitope for Cytochrome c Binding to the Apoptosis Protease Activation Factor-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 13034-13038.	1.6	117
80	Design and fabrication of bifunctional microcapsules for solar thermal energy storage and solar photocatalysis by encapsulating paraffin phase change material into cuprous oxide. <i>Solar Energy Materials and Solar Cells</i> , 2017, 168, 146-164.	3.0	116
81	Fabrication of Graphene/TiO ₂ /Paraffin Composite Phase Change Materials for Enhancement of Solar Energy Efficiency in Photocatalysis and Latent Heat Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4906-4915.	3.2	115
82	Overcoming cancer cell resistance to Smac mimetic induced apoptosis by modulating cIAP-2 expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11936-11941.	3.3	108
83	Induction of an apoptotic program in cell-free extracts by 2-chloro-2 $\hat{\text{e}}$ -deoxyadenosine 5 $\hat{\text{e}}$ -triphosphate and cytochrome c. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9567-9571.	3.3	107
84	Nanocomposites of poly(vinyl chloride) and nanometric calcium carbonate particles: Effects of chlorinated polyethylene on mechanical properties, morphology, and rheology. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2714-2723.	1.3	106
85	Mitochondrial activation of apoptosis. <i>Cell</i> , 2004, 116, S57-S61.	13.5	106
86	Novel cyclotriphosphazene-based epoxy compound and its application in halogen-free epoxy thermosetting systems: Synthesis, curing behaviors, and flame retardancy. <i>Polymer Degradation and Stability</i> , 2014, 103, 96-112.	2.7	100
87	Design and synthesis of multifunctional microencapsulated phase change materials with silver/silica double-layered shell for thermal energy storage, electrical conduction and antimicrobial effectiveness. <i>Energy</i> , 2016, 111, 498-512.	4.5	100
88	Small-molecule activation of the TRAIL receptor DR5 in human cancer cells. <i>Nature Chemical Biology</i> , 2013, 9, 84-89.	3.9	99
89	Design and fabrication of dual-functional microcapsules containing phase change material core and zirconium oxide shell with fluorescent characteristics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 56-68.	3.0	99
90	Effect of hydrotalcite on the thermal stability, mechanical properties, rheology and flame retardance of poly(vinyl chloride). <i>Polymer International</i> , 2004, 53, 698-707.	1.6	98

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91	PHAPI, CAS, and Hsp70 Promote Apoptosome Formation by Preventing Apaf-1 Aggregation and Enhancing Nucleotide Exchange on Apaf-1. <i>Molecular Cell</i> , 2008, 30, 239-247.	4.5	96
92	A new kind of cell suicide: mechanisms and functions of programmed necrosis. <i>Trends in Biochemical Sciences</i> , 2014, 39, 587-593.	3.7	96
93	Lipid profiling for early diagnosis and progression of colorectal cancer using direct infusion electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 24-34.	0.7	95
94	Phase-change characteristics and thermal performance of form-stable n-alkanes/silica composite phase change materials fabricated by sodium silicate precursor. <i>Renewable Energy</i> , 2015, 74, 689-698.	4.3	95
95	Fabrication of Spirocyclic Phosphazene Epoxy-Based Nanocomposites with Graphene via Exfoliation of Graphite Platelets and Thermal Curing for Enhancement of Mechanical and Conductive Properties. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10160-10171.	1.8	94
96	Self-Assembly Synthesis of Microencapsulated n-Eicosane Phase-Change Materials with Crystalline-Phase-Controllable Calcium Carbonate Shell. <i>Energy & Fuels</i> , 2014, 28, 3519-3529.	2.5	94
97	Autophagy occurs upstream or parallel to the apoptosome during histolytic cell death. <i>Development (Cambridge)</i> , 2006, 133, 1457-1465.	1.2	93
98	RIP3-mediated necrotic cell death accelerates systematic inflammation and mortality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11007-11012.	3.3	93
99	Apaf-1 deficiency and neural tube closure defects are found in fog mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9683-9687.	3.3	89
100	High-performance copolyimide fibers containing quinazolinone moiety: Preparation, structure and properties. <i>Polymer</i> , 2013, 54, 1700-1708.	1.8	88
101	Innovative design of superhydrophobic thermal energy-storage materials by microencapsulation of n-docosane with nanostructured ZnO/SiO ₂ shell. <i>Applied Energy</i> , 2019, 237, 549-565.	5.1	86
102	Microencapsulating n-docosane phase change material into CaCO ₃ /Fe ₃ O ₄ composites for high-efficient utilization of solar photothermal energy. <i>Renewable Energy</i> , 2021, 179, 47-64.	4.3	86
103	Natural Product Kongensin A is a Non-Canonical HSP90 Inhibitor that Blocks RIP3-dependent Necroptosis. <i>Cell Chemical Biology</i> , 2016, 23, 257-266.	2.5	85
104	Flexible and foldable composite films based on polyimide/phosphorene hybrid aerogel and phase change material for infrared stealth and thermal camouflage. <i>Composites Science and Technology</i> , 2022, 217, 109127.	3.8	85
105	Endonuclease G is required for early embryogenesis and normal apoptosis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15782-15787.	3.3	84
106	Discovery of a Highly Potent, Selective, and Metabolically Stable Inhibitor of Receptor-Interacting Protein 1 (RIP1) for the Treatment of Systemic Inflammatory Response Syndrome. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 972-986.	2.9	84
107	Fabrication of microencapsulated phase change materials with TiO ₂ /Fe ₃ O ₄ hybrid shell as thermoregulatory enzyme carriers: A novel design of applied energy microsystem for bioapplications. <i>Applied Energy</i> , 2017, 201, 20-33.	5.1	83
108	Tailoring of bifunctional microencapsulated phase change materials with CdS/SiO ₂ double-layered shell for solar photocatalysis and solar thermal energy storage. <i>Applied Thermal Engineering</i> , 2018, 134, 603-614.	3.0	83

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109	Purification and Characterization of an Interleukin-1 β -converting Enzyme Family Protease That Activates Cysteine Protease P32 (CPP32). <i>Journal of Biological Chemistry</i> , 1996, 271, 13371-13376.	1.6	81
110	Morphology-controlled synthesis of microencapsulated phase change materials with TiO ₂ shell for thermal energy harvesting and temperature regulation. <i>Energy</i> , 2019, 172, 599-617.	4.5	80
111	Synthesis, characterization and curing properties of a novel cycloliner phosphazene-based epoxy resin for halogen-free flame retardancy and high performance. <i>RSC Advances</i> , 2012, 2, 5789.	1.7	79
112	Novel Cycloliner Cyclotriphosphazene-Linked Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Characterization, and Flammability Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15064-15074.	1.8	77
113	Flotillin-mediated endocytosis and ALIX α -syntenin-1 α -mediated exocytosis protect the cell membrane from damage caused by necroptosis. <i>Science Signaling</i> , 2019, 12, .	1.6	76
114	Regulation of Apoptosis by Phosphatidylinositol 4,5-Bisphosphate Inhibition of Caspases, and Caspase Inactivation of Phosphatidylinositol Phosphate 5-Kinases. <i>Journal of Biological Chemistry</i> , 2001, 276, 1865-1872.	1.6	75
115	High Specific Capacitance of Polyaniline/Mesoporous Manganese Dioxide Composite Using KI-H ₂ SO ₄ Electrolyte. <i>Polymers</i> , 2015, 7, 1939-1953.	2.0	75
116	Hydroxyflavones as a New Family of Matrices for MALDI Tissue Imaging. <i>Analytical Chemistry</i> , 2013, 85, 7566-7573.	3.2	72
117	Recent advances in matrix α -assisted laser desorption/ionisation mass spectrometry imaging (MALDI α -MSI) for <i>in situ</i> analysis of endogenous molecules in plants. <i>Phytochemical Analysis</i> , 2018, 29, 351-364.	1.2	72
118	Hierarchical microencapsulation of phase change material with carbon-nanotubes/polydopamine/silica shell for synergistic enhancement of solar photothermal conversion and storage. <i>Solar Energy Materials and Solar Cells</i> , 2022, 236, 111539.	3.0	72
119	Surface modification of recycled carbon fiber α and its reinforcement effect on nylon 6 composites: Mechanical properties, morphology and α crystallization behaviors. <i>Current Applied Physics</i> , 2013, 13, 2038-2050.	1.1	71
120	Microencapsulation of n-dodecane into zirconia shell doped with rare earth: Design and synthesis of bifunctional microcapsules for photoluminescence enhancement and thermal energy storage. <i>Energy</i> , 2016, 97, 113-126.	4.5	69
121	3,4-Dimethoxycinnamic Acid as a Novel Matrix for Enhanced In Situ Detection and Imaging of Low-Molecular-Weight Compounds in Biological Tissues by MALDI-MSI. <i>Analytical Chemistry</i> , 2019, 91, 2634-2643.	3.2	67
122	Probing gender-specific lipid metabolites and diagnostic biomarkers for lung cancer using Fourier transform ion cyclotron resonance mass spectrometry. <i>Clinica Chimica Acta</i> , 2012, 414, 135-141.	0.5	66
123	RIPK1-RIPK3-MLKL-dependent necrosis promotes the aging of mouse male reproductive system. <i>ELife</i> , 2017, 6, .	2.8	65
124	Discovery of a new class of highly potent necroptosis inhibitors targeting the mixed lineage kinase domain-like protein. <i>Chemical Communications</i> , 2017, 53, 3637-3640.	2.2	64
125	Mixed Lineage Kinase Domain-like Protein MLKL Breaks Down Myelin following Nerve Injury. <i>Molecular Cell</i> , 2018, 72, 457-468.e5.	4.5	64
126	Fabrication and applications of dual-responsive microencapsulated phase change material with enhanced solar energy-storage and solar photocatalytic effectiveness. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 184-197.	3.0	64

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127	Development of reversible and durable thermochromic phase-change microcapsules for real-time indication of thermal energy storage and management. <i>Applied Energy</i> , 2020, 264, 114729.	5.1	64
128	Fabrication of shape-stable composite phase change materials based on lauric acid and graphene/graphene oxide complex aerogels for enhancement of thermal energy storage and electrical conduction. <i>Thermochimica Acta</i> , 2018, 664, 1-15.	1.2	63
129	Therapeutic anticancer efficacy of a synthetic diazonamide analog in the absence of overt toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2074-2079.	3.3	62
130	Improvement of Pharmacokinetic Profile of TRAIL via Trimer-Tag Enhances its Antitumor Activity in vivo. <i>Scientific Reports</i> , 2017, 7, 8953.	1.6	59
131	Smart design and construction of nanoflake-like MnO ₂ /SiO ₂ hierarchical microcapsules containing phase change material for in-situ thermal management of supercapacitors. <i>Energy Conversion and Management</i> , 2018, 164, 311-328.	4.4	59
132	Toughening of poly(2,6-dimethyl-1,4-phenylene oxide)/nylon 6 alloys with functionalized elastomers via reactive compatibilization: morphology, mechanical properties, and rheology. <i>European Polymer Journal</i> , 2004, 40, 1223-1232.	2.6	58
133	The E3 ubiquitin ligase Mule acts through the ATM/p53 axis to maintain B lymphocyte homeostasis. <i>Journal of Experimental Medicine</i> , 2012, 209, 173-186.	4.2	58
134	Fabrication of high-performance copolyimide fibers from 3,3',4,4'-biphenyltetracarboxylic dianhydride, p-phenylenediamine and 2-(4-aminophenyl)-6-amino-4(3H)-quinazolinone. <i>Materials Letters</i> , 2012, 89, 63-65.	1.3	58
135	A Small Molecule That Protects the Integrity of the Electron Transfer Chain Blocks the Mitochondrial Apoptotic Pathway. <i>Molecular Cell</i> , 2016, 63, 229-239.	4.5	57
136	Dynamic Random Access Memory Effect and Memory Device Derived from a Functional Polyimide Containing Electron Donor-Acceptor Pairs in the Main Chain. <i>Macromolecular Rapid Communications</i> , 2011, 32, 384-389.	2.0	56
137	Comprehensive Imaging of Porcine Adrenal Gland Lipids by MALDI-FTMS Using Quercetin as a Matrix. <i>Analytical Chemistry</i> , 2014, 86, 638-646.	3.2	56
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271	Absolute quantification of 2-oxohydroxyglutarate on tissue by matrix-assisted laser desorption/ionization mass spectrometry imaging for rapid and precise identification of isocitrate dehydrogenase mutations in human glioma. <i>International Journal of Cancer</i> , 2021, 149, 2091-2098.	2.3	2
272	Mass spectrometry imaging for <i>in situ</i> analysis of endogenous molecules in plants. <i>Scientia Sinica Vitae</i> , 2017, 47, 1043-1064.	0.1	2
273	A Mitochondria-Initiated Apoptotic Pathway. <i>Scientific World Journal, The</i> , 2001, 1, 49-49.	0.8	1
274	Carbonization behavior of polyimide films hybrid with different metal catalyst. <i>Polymer Science - Series B</i> , 2017, 59, 430-436.	0.3	1
275	Cytology, transcriptomics, and mass spectrometry imaging reveal changes in late-maturation elm (<i>Ulmus pumila</i>) seeds. <i>Journal of Plant Physiology</i> , 2022, 271, 153639.	1.6	1
276	PHAPI, CAS, and Hsp70 Promote Apoptosome Formation by Preventing Apaf-1 Aggregation and Enhancing Nucleotide Exchange on Apaf-1. <i>Molecular Cell</i> , 2008, 32, 888.	4.5	0
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278	Proteomics: recent advances in the analysis of diabetic kidney disease. <i>Scientia Sinica Vitae</i> , 2021, 51, 384-411.	0.1	0