

Xiao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

21,460
citations

76196

40
h-index

43802

91
g-index

102
all docs

102
docs citations

102
times ranked

19379
citing authors

#	ARTICLE	IF	CITATIONS
1	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014, 505, 117-120.	13.7	3,138
2	N6-methyladenosine Modulates Messenger RNA Translation Efficiency. <i>Cell</i> , 2015, 161, 1388-1399.	13.5	2,446
3	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014, 10, 93-95.	3.9	2,342
4	YTHDF3 facilitates translation and decay of N6-methyladenosine-modified RNA. <i>Cell Research</i> , 2017, 27, 315-328.	5.7	1,220
5	FTO Plays an Oncogenic Role in Acute Myeloid Leukemia as a N6-Methyladenosine RNA Demethylase. <i>Cancer Cell</i> , 2017, 31, 127-141.	7.7	1,139
6	Microenvironment-induced PTEN loss by exosomal microRNA primes brain metastasis outgrowth. <i>Nature</i> , 2015, 527, 100-104.	13.7	966
7	psi4 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3185-3197.	2.3	961
8	Three-dimensional intact-tissue sequencing of single-cell transcriptional states. <i>Science</i> , 2018, 361, .	6.0	890
9	YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs. <i>ELife</i> , 2017, 6, .	2.8	815
10	Chirality-specific growth of single-walled carbon nanotubes on solid alloy catalysts. <i>Nature</i> , 2014, 510, 522-524.	13.7	677
11	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. <i>Nature Chemical Biology</i> , 2014, 10, 927-929.	3.9	552
12	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. <i>Nature Biomedical Engineering</i> , 2019, 3, 58-68.	11.6	499
13	m6A-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. <i>Nature</i> , 2017, 542, 475-478.	13.7	437
14	Recent developments in the Psi4/SCF program package. <i>Journal of Chemical Physics</i> , 2020, 153, 024109.	1.2	388
15	HBXIP-elevated methyltransferase METTL3 promotes the progression of breast cancer via inhibiting tumor suppressor let-7g. <i>Cancer Letters</i> , 2018, 415, 11-19.	3.2	367
16	ALKBH1-Mediated tRNA Demethylation Regulates Translation. <i>Cell</i> , 2016, 167, 816-828.e16.	13.5	366
17	FTO-mediated formation of N6-hydroxymethyladenosine and N6-formyladenosine in mammalian RNA. <i>Nature Communications</i> , 2013, 4, 1798.	5.8	349
18	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1587-1590.	7.2	319

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19	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. <i>Nature</i> , 2017, 543, 234-238.	13.7	317
20	Crystal structure of the YTH domain of YTHDF2 reveals mechanism for recognition of N6-methyladenosine. <i>Cell Research</i> , 2014, 24, 1493-1496.	5.7	266
21	YTHDF2 mediates the mRNA degradation of the tumor suppressors to induce AKT phosphorylation in N6-methyladenosine-dependent way in prostate cancer. <i>Molecular Cancer</i> , 2020, 19, 152.	7.9	159
22	Transperineal versus transrectal prostate biopsy in the diagnosis of prostate cancer: a systematic review and meta-analysis. <i>World Journal of Surgical Oncology</i> , 2019, 17, 31.	0.8	155
23	Induction of alarmin S100A8/A9 mediates activation of aberrant neutrophils in the pathogenesis of COVID-19. <i>Cell Host and Microbe</i> , 2021, 29, 222-235.e4.	5.1	145
24	Dynamic RNA Modifications in Posttranscriptional Regulation. <i>Molecular Cell</i> , 2014, 56, 5-12.	4.5	139
25	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , 2020, 367, 1372-1376.	6.0	132
26	Downregulation of N6-methyladenosine binding YTHDF2 protein mediated by miR-493-3p suppresses prostate cancer by elevating N6-methyladenosine levels. <i>Oncotarget</i> , 2018, 9, 3752-3764.	0.8	124
27	Growing Zigzag (16,0) Carbon Nanotubes with Structure-Defined Catalysts. <i>Journal of the American Chemical Society</i> , 2015, 137, 8688-8691.	6.6	118
28	Rh-Catalyzed Asymmetric Hydroformylation of Functionalized 1,1-Disubstituted Olefins. <i>Journal of the American Chemical Society</i> , 2011, 133, 19080-19083.	6.6	101
29	Homogeneous Immunosorbent Assay Based on Single-Particle Enumeration Using Upconversion Nanoparticles for the Sensitive Detection of Cancer Biomarkers. <i>Analytical Chemistry</i> , 2018, 90, 4807-4814.	3.2	101
30	Water-Assisted Preparation of High-Purity Semiconducting (14,4) Carbon Nanotubes. <i>ACS Nano</i> , 2017, 11, 186-193.	7.3	100
31	METTL3/YTHDF2 m ⁶ A axis promotes tumorigenesis by degrading SETD7 and KLF4 mRNAs in bladder cancer. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 4092-4104.	1.6	100
32	Reading RNA methylation codes through methyl-specific binding proteins. <i>RNA Biology</i> , 2014, 11, 669-672.	1.5	99
33	Templated Synthesis of Single-Walled Carbon Nanotubes with Specific Structure. <i>Accounts of Chemical Research</i> , 2016, 49, 606-615.	7.6	94
34	Structural-Property Relationship in Pyrazino[2,3-g]quinoxaline Derivatives: Morphology, Photophysical, and Waveguide Properties. <i>Chemistry of Materials</i> , 2010, 22, 3735-3745.	3.2	87
35	A pyroptosis nanotuner for cancer therapy. <i>Nature Nanotechnology</i> , 2022, 17, 788-798.	15.6	84
36	The dual role of N6-methyladenosine modification of RNAs is involved in human cancers. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 4630-4639.	1.6	72

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37	Long noncoding RNA GAS5-AS1 suppresses growth and metastasis of cervical cancer by increasing GAS5 stability. American Journal of Translational Research (discontinued), 2019, 11, 4909-4921.	0.0	64
38	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. Topics in Current Chemistry, 2017, 375, 29.	3.0	55
39	ClusterMap for multi-scale clustering analysis of spatial gene expression. Nature Communications, 2021, 12, 5909.	5.8	47
40	Synthesis of Optically Pure 2-Trifluoromethyl Lactic Acid by Asymmetric Hydroformylation. Journal of Organic Chemistry, 2013, 78, 3429-3433.	1.7	44
41	Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> - 1) chirality selection. Science Advances, 2019, 5, eaav9668.	4.7	42
42	Cadmium-induced immune abnormality is a key pathogenic event in human and rat models of preeclampsia. Environmental Pollution, 2016, 218, 770-782.	3.7	40
43	Controllable Growth of (n, n + 1) Family of Semiconducting Carbon Nanotubes. Chem, 2019, 5, 1182-1193.	5.8	38
44	Retinoblastoma cell-derived exosomes promote angiogenesis of human vesicle endothelial cells through microRNA-92a-3p. Cell Death and Disease, 2021, 12, 695.	2.7	38
45	EGR2-mediated regulation of m6A reader IGF2BP proteins drive RCC tumorigenesis and metastasis via enhancing S1PR3 mRNA stabilization. Cell Death and Disease, 2021, 12, 750.	2.7	37
46	MOF-derived novel porous Fe ₃ O ₄ @C nanocomposites as smart nanomedical platforms for combined cancer therapy: magnetic-triggered synergistic hyperthermia and chemotherapy. Journal of Materials Chemistry B, 2020, 8, 8671-8683.	2.9	36
47	MicroRNA-576-3p Inhibits Proliferation in Bladder Cancer Cells by Targeting Cyclin D1. Molecules and Cells, 2015, 38, 130-137.	1.0	35
48	Connectome-scale assessment of structural and functional connectivity in mild traumatic brain injury at the acute stage. Neurolmage: Clinical, 2016, 12, 100-115.	1.4	35
49	Chirality-controlled synthesis of single-walled carbon nanotubes—From mechanistic studies toward experimental realization. Materials Today, 2018, 21, 845-860.	8.3	34
50	Recent advances in optical microscopic methods for single-particle tracking in biological samples. Analytical and Bioanalytical Chemistry, 2019, 411, 4445-4463.	1.9	31
51	Circulating Adipokine Levels in Nonobese Women With Polycystic Ovary Syndrome and in Nonobese Control Women: A Systematic Review and Meta-Analysis. Frontiers in Endocrinology, 2020, 11, 537809.	1.5	31
52	Discovery of extracellular vesicles derived miR-181a-5p in patient's serum as an indicator for bone-metastatic prostate cancer. Theranostics, 2021, 11, 878-892.	4.6	30
53	Fe ₃ O ₄ @PVP@DOX magnetic vortex hybrid nanostructures with magnetic-responsive heating and controlled drug delivery functions for precise medicine of cancers. Advanced Composites and Hybrid Materials, 2022, 5, 1786-1798.	9.9	29
54	Anchoring effect of Ni ²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. Carbon, 2018, 128, 249-256.	5.4	28

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55	Prognostic Value of Tumor-Associated Macrophages in Clear Cell Renal Cell Carcinoma: A Systematic Review and Meta-Analysis. <i>Frontiers in Oncology</i> , 2021, 11, 657318.	1.3	28
56	Secondhand smoking increases bladder cancer risk in nonsmoking population: a meta-analysis. <i>Cancer Management and Research</i> , 2018, Volume 10, 3781-3791.	0.9	25
57	Massively Parallel Quantum Chemistry: A high-performance research platform for electronic structure. <i>Journal of Chemical Physics</i> , 2020, 153, 044120.	1.2	25
58	Pioglitazone use in patients with diabetes and risk of bladder cancer: a systematic review and meta-analysis. <i>Cancer Management and Research</i> , 2018, Volume 10, 1627-1638.	0.9	24
59	DNMT3A/3B overexpression might be correlated with poor patient survival, hypermethylation and low expression of ESR1/PGR in endometrioid carcinoma. <i>Chinese Medical Journal</i> , 2019, 132, 161-170.	0.9	24
60	TBK1-METTL3 axis facilitates antiviral immunity. <i>Cell Reports</i> , 2022, 38, 110373.	2.9	24
61	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2022, 15, 4613-4637.	5.8	23
62	How a Solid Catalyst Determines the Chirality of the Single-Wall Carbon Nanotube Grown on It. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 735-741.	2.1	21
63	MicroRNA-501-3p inhibits the proliferation of kidney cancer cells by targeting WTAP. <i>Cancer Medicine</i> , 2021, 10, 7222-7232.	1.3	17
64	Epigenetic regulation of mRNA N6-methyladenosine modifications in mammalian gametogenesis. <i>Molecular Human Reproduction</i> , 2021, 27, .	1.3	15
65	circKDM4C enhances bladder cancer invasion and metastasis through miR-200bc-3p/ZEB1 axis. <i>Cell Death Discovery</i> , 2021, 7, 365.	2.0	15
66	The Pivotal Role of Chemical Modifications in mRNA Therapeutics. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	15
67	Herpes simplex virus type 2 or human herpesvirus 8 infection and prostate cancer risk: A meta-analysis. <i>Biomedical Reports</i> , 2013, 1, 433-439.	0.9	14
68	Fast Surface Restructuring within the Gap of Au Nanocube Dimer for the Enhancement of Catalytic Efficiency. <i>CCS Chemistry</i> , 2022, 4, 1074-1086.	4.6	14
69	Sulfite triggers sustained calcium overload in cultured cortical neurons via a redox-dependent mechanism. <i>Toxicology Letters</i> , 2016, 258, 237-248.	0.4	13
70	Spin-Adapted Formulation and Implementation of Density Cumulant Functional Theory with Density-Fitting Approximation: Application to Transition Metal Compounds. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4833-4842.	2.3	11
71	Roles of N ⁶ -methyladenosine (m ⁶ A) RNA modifications in urological cancers. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 10302-10310.	1.6	10
72	Polyoxometalate steric hindrance driven chirality-selective separation of subnanometer carbon nanotubes. <i>Chemical Science</i> , 2022, 13, 5920-5928.	3.7	10

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73	Substitution has better efficacy than add-on therapy for patients with focal epilepsy after their first antiepileptic drug treatments fail. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2019, 64, 23-28.	0.9	9
74	The Regulatory Role of RNA Metabolism Regulator TDP-43 in Human Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 755096.	1.3	9
75	FERMT1 knockdown inhibits oral squamous cell carcinoma cell epithelial-mesenchymal transition by inactivating the PI3K/AKT signaling pathway. <i>BMC Oral Health</i> , 2021, 21, 598.	0.8	9
76	Deformation of single-walled carbon nanotubes by interaction with graphene: A first-principles study. <i>Journal of Computational Chemistry</i> , 2015, 36, 717-722.	1.5	8
77	Conversion of an amide to a high-energy thioester by <i>Staphylococcus aureus</i> sortase A is powered by variable binding affinity for calcium. <i>Scientific Reports</i> , 2018, 8, 16371.	1.6	8
78	Epigenetic regulation in antiviral innate immunity. <i>European Journal of Immunology</i> , 2021, 51, 1641-1651.	1.6	8
79	Chemically Modified mocRNAs for Highly Efficient Protein Expression in Mammalian Cells. <i>ACS Chemical Biology</i> , 2022, 17, 3352-3366.	1.6	8
80	Matrine inhibits the growth of natural killer/T-cell lymphoma cells by modulating CaMKIÎ ³ -c-Myc signaling pathway. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 214.	1.2	6
81	Functional nanomaterial-enabled synthetic biology. <i>Nano Futures</i> , 2021, 5, 022001.	1.0	6
82	Diagnosis and treatment of community-associated methicillin-resistant <i>Staphylococcus aureus</i> prostatic abscess involving the seminal vesicle: A case report. <i>Experimental and Therapeutic Medicine</i> , 2015, 9, 835-838.	0.8	5
83	CXCR7 Agonist TC14012 Improves Angiogenic Function of Endothelial Progenitor Cells via Activating Akt/eNOS Pathway and Promotes Ischemic Angiogenesis in Diabetic Limb Ischemia. <i>Cardiovascular Drugs and Therapy</i> , 2023, 37, 849-863.	1.3	5
84	Matrine suppresses cell growth of diffuse large B-cell lymphoma via inhibiting CaMKIÎ ³ /c-Myc/CDK6 signaling pathway. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 163.	1.2	4
85	CDK12 Mutation in Advanced Prostate Cancer: A Marker for Clinical Subtype?. <i>European Urology</i> , 2020, 77, 342-343.	0.9	3
86	Conditional survival of metastatic clear cell renal cell carcinoma: How prognosis evolves after cytoreductive surgery of primary tumor. <i>Cancer Medicine</i> , 2021, 10, 7492-7502.	1.3	3
87	25-HC promotes hepatocellular carcinoma metastasis through up-regulation of TLR4 dependent FABP4. <i>American Journal of Cancer Research</i> , 2019, 9, 2140-2155.	1.4	3
88	The lupus autoantigen La/Ssb is an Xist-binding protein involved in Xist folding and cloud formation. <i>Nucleic Acids Research</i> , 2021, 49, 11596-11613.	6.5	2
89	Three-dimensional in situ sequencing of single cells in intact tissue. <i>FASEB Journal</i> , 2019, 33, 221.3.	0.2	1
90	Hbxip is essential for murine embryogenesis and regulates embryonic stem cell differentiation through activating mTORC1. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	1

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91	Gastrointestinal stromal tumour with an unusual presentation as a huge prostatic mass: a case report. ANZ Journal of Surgery, 2019, 89, E341-E342.	0.3	0
92	Editorial overview: Understanding, predicting, and optimizing biomolecular interactions with machine learning. Current Opinion in Chemical Biology, 2021, 65, A1-A3.	2.8	0