

Xiao Wang

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.

91
papers

13,465
citations

38
h-index

102
g-index

102
ext. papers

17,838
ext. citations

12.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
91	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014 , 505, 117-20	50.4	1949
90	N(6)-methyladenosine Modulates Messenger RNA Translation Efficiency. <i>Cell</i> , 2015 , 161, 1388-99	56.2	1493
89	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014 , 10, 93-5	11.7	1458
88	Microenvironment-induced PTEN loss by exosomal microRNA primes brain metastasis outgrowth. <i>Nature</i> , 2015 , 527, 100-104	50.4	744
87	FTO Plays an Oncogenic Role in Acute Myeloid Leukemia as a N-Methyladenosine RNA Demethylase. <i>Cancer Cell</i> , 2017 , 31, 127-141	24.3	736
86	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	6.4	733
85	YTHDF3 facilitates translation and decay of N-methyladenosine-modified RNA. <i>Cell Research</i> , 2017 , 27, 315-328	24.7	696
84	Chirality-specific growth of single-walled carbon nanotubes on solid alloy catalysts. <i>Nature</i> , 2014 , 510, 522-4	50.4	569
83	Three-dimensional intact-tissue sequencing of single-cell transcriptional states. <i>Science</i> , 2018 , 361,	33.3	482
82	YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. <i>ELife</i> , 2017 , 6,	8.9	452
81	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. <i>Nature Chemical Biology</i> , 2014 , 10, 927-9	11.7	383
80	mA-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. <i>Nature</i> , 2017 , 542, 475-478	50.4	293
79	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. <i>Nature Biomedical Engineering</i> , 2019 , 3, 58-68	19	284
78	HBXIP-elevated methyltransferase METTL3 promotes the progression of breast cancer via inhibiting tumor suppressor let-7g. <i>Cancer Letters</i> , 2018 , 415, 11-19	9.9	259
77	FTO-mediated formation of N6-hydroxymethyladenosine and N6-formyladenosine in mammalian RNA. <i>Nature Communications</i> , 2013 , 4, 1798	17.4	255
76	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. <i>Nature</i> , 2017 , 543, 234-238	50.4	251
75	High-resolution N(6) -methyladenosine (m(6) A) map using photo-crosslinking-assisted m(6) A sequencing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1587-90	16.4	249

74	ALKBH1-Mediated tRNA Demethylation Regulates Translation. <i>Cell</i> , 2016 , 167, 816-828.e16	56.2	197
73	Crystal structure of the YTH domain of YTHDF2 reveals mechanism for recognition of N6-methyladenosine. <i>Cell Research</i> , 2014 , 24, 1493-6	24.7	179
72	Recent developments in the PySCF program package. <i>Journal of Chemical Physics</i> , 2020 , 153, 024109	3.9	121
71	Growing Zigzag (16,0) Carbon Nanotubes with Structure-Defined Catalysts. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8688-91	16.4	96
70	Dynamic RNA modifications in posttranscriptional regulation. <i>Molecular Cell</i> , 2014 , 56, 5-12	17.6	96
69	Downregulation of N-methyladenosine binding YTHDF2 protein mediated by miR-493-3p suppresses prostate cancer by elevating N-methyladenosine levels. <i>Oncotarget</i> , 2018 , 9, 3752-3764	3.3	88
68	Rh-catalyzed asymmetric hydroformylation of functionalized 1,1-disubstituted olefins. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19080-3	16.4	85
67	Reading RNA methylation codes through methyl-specific binding proteins. <i>RNA Biology</i> , 2014 , 11, 669-724.8	7.7	77
66	Structural Property Relationship in Pyrazino[2,3-g]quinoxaline Derivatives: Morphology, Photophysical, and Waveguide Properties. <i>Chemistry of Materials</i> , 2010 , 22, 3735-3745	9.6	74
65	Templated Synthesis of Single-Walled Carbon Nanotubes with Specific Structure. <i>Accounts of Chemical Research</i> , 2016 , 49, 606-15	24.3	73
64	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	7.8	72
63	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	3.4	70
62	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , 2020 , 367, 1372-1376	33.3	70
61	Water-Assisted Preparation of High-Purity Semiconducting (14,4) Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 186-193	16.7	66
60	Long noncoding RNA GAS5-AS1 suppresses growth and metastasis of cervical cancer by increasing GAS5 stability. <i>American Journal of Translational Research (discontinued)</i> , 2019 , 11, 4909-4921	3	59
59	METTL3/YTHDF2 m 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	5.6	55
58	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	23.4	53
57	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	5.6	48

56	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	42.1	48
55	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017 , 375, 29	7.2	41
54	Synthesis of optically pure 2-trifluoromethyl lactic acid by asymmetric hydroformylation. <i>Journal of Organic Chemistry</i> , 2013 , 78, 3429-33	4.2	39
53	Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. <i>Science Advances</i> , 2019 , 5, eaav9668	14.3	32
52	MicroRNA-576-3p inhibits proliferation in bladder cancer cells by targeting cyclin D1. <i>Molecules and Cells</i> , 2015 , 38, 130-7	3.5	29
51	Cadmium-induced immune abnormality is a key pathogenic event in human and rat models of preeclampsia. <i>Environmental Pollution</i> , 2016 , 218, 770-782	9.3	29
50	Controllable Growth of (n, n) Family of Semiconducting Carbon Nanotubes. <i>Chem</i> , 2019 , 5, 1182-1193	16.2	27
49	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. <i>Angewandte Chemie</i> , 2015 , 127, 1607-1610	3.6	26
48	Anchoring effect of Ni ²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. <i>Carbon</i> , 2018 , 128, 249-256	10.4	25
47	Chirality-controlled synthesis of single-walled carbon nanotubes from mechanistic studies toward experimental realization. <i>Materials Today</i> , 2018 , 21, 845-860	21.8	21
46	Recent advances in optical microscopic methods for single-particle tracking in biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4445-4463	4.4	19
45	MOF-derived novel porous FeO@C nanocomposites as smart nanomedical platforms for combined cancer therapy: magnetic-triggered synergistic hyperthermia and chemotherapy. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8671-8683	7.3	18
44	Connectome-scale assessment of structural and functional connectivity in mild traumatic brain injury at the acute stage. <i>NeuroImage: Clinical</i> , 2016 , 12, 100-115	5.3	18
43	Pioglitazone use in patients with diabetes and risk of bladder cancer: a systematic review and meta-analysis. <i>Cancer Management and Research</i> , 2018 , 10, 1627-1638	3.6	17
42	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	6.4	15
41	Secondhand smoking increases bladder cancer risk in nonsmoking population: a meta-analysis. <i>Cancer Management and Research</i> , 2018 , 10, 3781-3791	3.6	14
40	DNMT3A/3B overexpression might be correlated with poor patient survival, hypermethylation and low expression of ESR1/PGR in endometrioid carcinoma: an analysis of The Cancer Genome Atlas. <i>Chinese Medical Journal</i> , 2019 , 132, 161-170	2.9	13
39	Massively Parallel Quantum Chemistry: A high-performance research platform for electronic structure. <i>Journal of Chemical Physics</i> , 2020 , 153, 044120	3.9	12

38	ClusterMap for multi-scale clustering analysis of spatial gene expression. <i>Nature Communications</i> , 2021 , 12, 5909	17.4	11
37	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	6.4	11
36	Retinoblastoma cell-derived exosomes promote angiogenesis of human vesicle endothelial cells through microRNA-92a-3p. <i>Cell Death and Disease</i> , 2021 , 12, 695	9.8	11
35	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	1.8	10
34	Discovery of extracellular vesicles derived miR-181a-5p in patient's serum as an indicator for bone-metastatic prostate cancer. <i>Theranostics</i> , 2021 , 11, 878-892	12.1	9
33	Circulating Adipokine Levels in Nonobese Women With Polycystic Ovary Syndrome and in Nonobese Control Women: A Systematic Review and Meta-Analysis. <i>Frontiers in Endocrinology</i> , 2020 , 11, 537809	5.7	8
32	EGR2-mediated regulation of mA reader IGF2BP proteins drive RCC tumorigenesis and metastasis via enhancing S1PR3 mRNA stabilization. <i>Cell Death and Disease</i> , 2021 , 12, 750	9.8	8
31	Deformation of single-walled carbon nanotubes by interaction with graphene: a first-principles study. <i>Journal of Computational Chemistry</i> , 2015 , 36, 717-22	3.5	6
30	Author response: YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs 2017 ,		6
29	Roles of N -methyladenosine (m A) RNA modifications in urological cancers. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 10302-10310	5.6	6
28	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	5.3	6
27	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	3.2	6
26	Sulfite triggers sustained calcium overload in cultured cortical neurons via a redox-dependent mechanism. <i>Toxicology Letters</i> , 2016 , 258, 237-248	4.4	5
25	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 1	10	5
24	In situ electro-sequencing in three-dimensional tissues		4
23	Matrine inhibits the growth of natural killer/T-cell lymphoma cells by modulating CaMKII β -Myc signaling pathway. <i>BMC Complementary Medicine and Therapies</i> , 2020 , 20, 214	2.9	3
22	25-HC promotes hepatocellular carcinoma metastasis through up-regulation of TLR4 dependent FABP4. <i>American Journal of Cancer Research</i> , 2019 , 9, 2140-2155	4.4	3
21	The Regulatory Role of RNA Metabolism Regulator TDP-43 in Human Cancer. <i>Frontiers in Oncology</i> , 2021 , 11, 755096	5.3	3

20	Functional nanomaterial-enabled synthetic biology. <i>Nano Futures</i> , 2021 , 5, 022001	3.6	3
19	ClusterMap: multi-scale clustering analysis of spatial gene expression		3
18	MicroRNA-501-3p inhibits the proliferation of kidney cancer cells by targeting WTAP. <i>Cancer Medicine</i> , 2021 , 10, 7222-7232	4.8	3
17	Diagnosis and treatment of community-associated methicillin-resistant prostatic abscess involving the seminal vesicle: A case report. <i>Experimental and Therapeutic Medicine</i> , 2015 , 9, 835-838	2.1	2
16	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	3.7	2
15	Epigenetic regulation of mRNA N6-methyladenosine modifications in mammalian gametogenesis. <i>Molecular Human Reproduction</i> , 2021 , 27,	4.4	2
14	Matrine suppresses cell growth of diffuse large B-cell lymphoma via inhibiting CaMKII β -Myc/CDK6 signaling pathway. <i>BMC Complementary Medicine and Therapies</i> , 2021 , 21, 163	2.9	2
13	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	4.9	2
12	Fe ₃ O ₄ @PVP@DOX magnetic vortex hybrid nanostructures with magnetic-responsive heating and controlled drug delivery functions for precise medicine of cancers. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	2
11	Chemically Modified mocRNAs for Highly Efficient Protein Expression in Mammalian Cells.. <i>ACS Chemical Biology</i> , 2022 ,	4.9	1
10	circKDM4C enhances bladder cancer invasion and metastasis through miR-200bc-3p/ZEB1 axis. <i>Cell Death Discovery</i> , 2021 , 7, 365	6.9	1
9	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	20.1	1
8	Fast Surface Restructuring within the Gap of Au Nanocube Dimer for the Enhancement of Catalytic Efficiency. <i>CCS Chemistry</i> ,1185-1197	7.2	1
7	Epigenetic regulation in antiviral innate immunity. <i>European Journal of Immunology</i> , 2021 , 51, 1641-16516.1		1
6	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	4.8	1
5	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. <i>Topics in Current Chemistry Collections</i> , 2019 , 25-67	1.8	0
4	Three-dimensional in situ sequencing of single cells in intact tissue. <i>FASEB Journal</i> , 2019 , 33, 221.3	0.9	0
3	TBK1-METTL3 axis facilitates antiviral immunity.. <i>Cell Reports</i> , 2022 , 38, 110373	10.6	0

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| 2 | Gastrointestinal stromal tumour with an unusual presentation as a huge prostatic mass: a case report. <i>ANZ Journal of Surgery</i> , 2019 , 89, E341-E342 | 1 |
| 1 | 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> , 2022 , 1 | 3-9 |