

# Guang Hu

## List of Publications by Year in descending order

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102  
papers

6,017  
citations

136950

32  
h-index

76900

74  
g-index

105  
all docs

105  
docs citations

105  
times ranked

10232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second-generation shRNA libraries covering the mouse and human genomes. <i>Nature Genetics</i> , 2005, 37, 1281-1288.	21.4	582
2	The pINDUCER lentiviral toolkit for inducible RNA interference in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3665-3670.	7.1	570
3	A lentiviral microRNA-based system for single-copy polymerase II-regulated RNA interference in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13212-13217.	7.1	515
4	Cancer Proliferation Gene Discovery Through Functional Genomics. <i>Science</i> , 2008, 319, 620-624.	12.6	365
5	A genome-wide RNAi screen identifies a new transcriptional module required for self-renewal. <i>Genes and Development</i> , 2009, 23, 837-848.	5.9	354
6	SCF <sup>β2</sup> -TRCP controls oncogenic transformation and neural differentiation through REST degradation. <i>Nature</i> , 2008, 452, 370-374.	27.8	289
7	Activation of Multiple Proto-oncogenic Tyrosine Kinases in Breast Cancer via Loss of the PTPN12 Phosphatase. <i>Cell</i> , 2011, 144, 703-718.	28.9	246
8	Tyrosine phosphatase SHP2 promotes breast cancer progression and maintains tumor-initiating cells via activation of key transcription factors and a positive feedback signaling loop. <i>Nature Medicine</i> , 2012, 18, 529-537.	30.7	224
9	R9AP, a membrane anchor for the photoreceptor GTPase accelerating protein, RGS9-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9755-9760.	7.1	164
10	Pausing of RNA Polymerase II Regulates Mammalian Developmental Potential through Control of Signaling Networks. <i>Molecular Cell</i> , 2015, 58, 311-322.	9.7	155
11	INO80 Facilitates Pluripotency Gene Activation in Embryonic Stem Cell Self-Renewal, Reprogramming, and Blastocyst Development. <i>Cell Stem Cell</i> , 2014, 14, 575-591.	11.1	148
12	Fip1 regulates mRNA alternative polyadenylation to promote stem cell self-renewal. <i>EMBO Journal</i> , 2014, 33, 878-889.	7.8	136
13	TRIM28 regulates RNA polymerase II promoter-proximal pausing and pause release. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 876-883.	8.2	125
14	Nudt21 Controls Cell Fate by Connecting Alternative Polyadenylation to Chromatin Signaling. <i>Cell</i> , 2018, 172, 106-120.e21.	28.9	123
15	NuRD and Pluripotency: A Complex Balancing Act. <i>Cell Stem Cell</i> , 2012, 10, 497-503.	11.1	99
16	The construction of an amino acid network for understanding protein structure and function. <i>Amino Acids</i> , 2014, 46, 1419-1439.	2.7	92
17	The THO Complex Regulates Pluripotency Gene mRNA Export and Controls Embryonic Stem Cell Self-Renewal and Somatic Cell Reprogramming. <i>Cell Stem Cell</i> , 2013, 13, 676-690.	11.1	85
18	Acute depletion of Tet1-dependent 5-hydroxymethylcytosine levels impairs LIF/Stat3 signaling and results in loss of embryonic stem cell identity. <i>Nucleic Acids Research</i> , 2012, 40, 3364-3377.	14.5	84

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19	Activation of RGS9-1GTPase Acceleration by Its Membrane Anchor, R9AP. <i>Journal of Biological Chemistry</i> , 2003, 278, 14550-14554.	3.4	69
20	The Discovery of a Putative Allosteric Site in the SARS-CoV-2 Spike Protein Using an Integrated Structural/Dynamic Approach. <i>Journal of Proteome Research</i> , 2020, 19, 4576-4586.	3.7	66
21	INO80 governs superenhancer-mediated oncogenic transcription and tumor growth in melanoma. <i>Genes and Development</i> , 2016, 30, 1440-1453.	5.9	65
22	Cnot1, Cnot2, and Cnot3 Maintain Mouse and Human ESC Identity and Inhibit Extraembryonic Differentiation. <i>Stem Cells</i> , 2012, 30, 910-922.	3.2	63
23	Residue interaction network analysis of Dronpa and a DNA clamp. <i>Journal of Theoretical Biology</i> , 2014, 348, 55-64.	1.7	63
24	SIRT1-Mediated Deacetylation of CRABP II Regulates Cellular Retinoic Acid Signaling and Modulates Embryonic Stem Cell Differentiation. <i>Molecular Cell</i> , 2014, 55, 843-855.	9.7	60
25	Integration of network models and evolutionary analysis into high-throughput modeling of protein dynamics and allosteric regulation: theory, tools and applications. <i>Briefings in Bioinformatics</i> , 2020, 21, 815-835.	6.5	58
26	A Serial shRNA Screen for Roadblocks to Reprogramming Identifies the Protein Modifier SUMO2. <i>Stem Cell Reports</i> , 2016, 6, 704-716.	4.8	50
27	Rif1 promotes a repressive chromatin state to safeguard against endogenous retrovirus activation. <i>Nucleic Acids Research</i> , 2017, 45, 12723-12738.	14.5	49
28	DNA methyltransferase inhibitors: an updated patent review (2012-2015). <i>Expert Opinion on Therapeutic Patents</i> , 2016, 26, 1017-1030.	5.0	45
29	RNA polymerase II promoter-proximal pausing in mammalian long non-coding genes. <i>Genomics</i> , 2016, 108, 64-77.	2.9	44
30	Allosteric Regulation at the Crossroads of New Technologies: Multiscale Modeling, Networks, and Machine Learning. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 136.	3.5	44
31	Phosphorylation of RGS9-1 by an Endogenous Protein Kinase in Rod Outer Segments. <i>Journal of Biological Chemistry</i> , 2001, 276, 22287-22295.	3.4	40
32	Diagnosis Value of the Serum Amyloid A Test in Neonatal Sepsis: A Meta-Analysis. <i>BioMed Research International</i> , 2013, 2013, 1-9.	1.9	40
33	Post-transcriptional regulation of the pluripotent state. <i>Current Opinion in Genetics and Development</i> , 2017, 46, 15-23.	3.3	35
34	Forward RNAi screens in primary human hematopoietic stem/progenitor cells. <i>Blood</i> , 2009, 113, 3690-3695.	1.4	32
35	Knowledge-Based Analysis for Detecting Key Signaling Events from Time-Series Phosphoproteomics Data. <i>PLoS Computational Biology</i> , 2015, 11, e1004403.	3.2	32
36	The architecture of Platonic polyhedral links. <i>Journal of Mathematical Chemistry</i> , 2009, 46, 592-603.	1.5	30

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37	Molecular Mechanism underlying PRMT1 Dimerization for SAM Binding and Methylase Activity. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2623-2632.	5.4	30
38	CNOT3-Dependent mRNA Deadenylation Safeguards the Pluripotent State. <i>Stem Cell Reports</i> , 2016, 7, 897-910.	4.8	29
39	Dioxin and AHR impairs mesoderm gene expression and cardiac differentiation in human embryonic stem cells. <i>Science of the Total Environment</i> , 2019, 651, 1038-1046.	8.0	29
40	Identification of Protein Kinase C Isozymes Responsible for the Phosphorylation of Photoreceptor-specific RGS9-1 at Ser475. <i>Journal of Biological Chemistry</i> , 2003, 278, 8316-8325.	3.4	26
41	Tumor Necrosis Factor- $\alpha$ as a Diagnostic Marker for Neonatal Sepsis: A Meta-Analysis. <i>Scientific World Journal</i> , The, 2014, 2014, 1-14.	2.1	26
42	Integrative framework for identification of key cell identity genes uncovers determinants of ES cell identity and homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1581-90.	7.1	26
43	A primer on using pooled shRNA libraries for functional genomic screens. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012, 44, 103-112.	2.0	24
44	USP7 negatively controls global DNA methylation by attenuating ubiquitinated histone-dependent DNMT1 recruitment. <i>Cell Discovery</i> , 2020, 6, 58.	6.7	23
45	Computational Analysis of the Binding Specificities of PH Domains. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	22
46	The Topology and Dynamics of Protein Complexes: Insights from Intra&ndash; Molecular Network Theory. <i>Current Protein and Peptide Science</i> , 2013, 14, 121-132.	1.4	22
47	Identifying Drug Targets in Pancreatic Ductal Adenocarcinoma Through Machine Learning, Analyzing Biomolecular Networks, and Structural Modeling. <i>Frontiers in Pharmacology</i> , 2020, 11, 534.	3.5	21
48	An advanced MRI and MRSI data fusion scheme for enhancing unsupervised brain tumor differentiation. <i>Computers in Biology and Medicine</i> , 2017, 81, 121-129.	7.0	20
49	Comparative Study of Elastic Network Model and Protein Contact Network for Protein Complexes: The Hemoglobin Case. <i>BioMed Research International</i> , 2017, 2017, 1-15.	1.9	20
50	Deciphering the role of dimer interface in intrinsic dynamics and allosteric pathways underlying the functional transformation of DNMT3A. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1667-1679.	2.4	20
51	Node-Weighted Amino Acid Network Strategy for Characterization and Identification of Protein Functional Residues. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 2024-2032.	5.4	20
52	Both intra and inter-domain interactions define the intrinsic dynamics and allosteric mechanism in DNMT1s. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 749-764.	4.1	20
53	SVR_CAF: An integrated score function for detecting native protein structures among decoys. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 556-564.	2.6	18
54	Amino acid contact energy networks impact protein structure and evolution. <i>Journal of Theoretical Biology</i> , 2014, 355, 95-104.	1.7	18

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55	Comparative Dynamics and Functional Mechanisms of the CYP17A1 Tunnels Regulated by Ligand Binding. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3632-3647.	5.4	17
56	A New Euler's Formula for DNA Polyhedra. <i>PLoS ONE</i> , 2011, 6, e26308.	2.5	16
57	Post genome-wide association studies functional characterization of prostate cancer risk loci. <i>BMC Genomics</i> , 2013, 14, S9.	2.8	15
58	Modeling of PH Domains and Phosphoinositides Interactions and Beyond. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1111, 19-32.	1.6	14
59	Amino Acid Network for the Discrimination of Native Protein Structures from Decoys. <i>Current Protein and Peptide Science</i> , 2014, 15, 522-528.	1.4	14
60	Biological Networks for Cancer Candidate Biomarkers Discovery. <i>Cancer Informatics</i> , 2016, 15s3, CIN.S39458.	1.9	13
61	Probing Carbon Utilization of <i>Cordyceps militaris</i> by Sugar Transportome and Protein Structural Analysis. <i>Cells</i> , 2020, 9, 401.	4.1	13
62	Recent Advances on the Network Models in Target-based Drug Discovery. <i>Current Topics in Medicinal Chemistry</i> , 2018, 18, 1031-1043.	2.1	13
63	Dynamics of Post-Translational Modification Inspires Drug Design in the Kinase Family. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15111-15125.	6.4	13
64	The harmonic analysis of cylindrically symmetric proteins: A comparison of Dronpa and a DNA sliding clamp. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 34, 28-37.	2.4	11
65	Synchronous firings in small-world networks of excitable nodes. <i>Europhysics Letters</i> , 2013, 102, 28001.	2.0	11
66	Identifying novel glioma associated pathways based on systems biology level meta-analysis. <i>BMC Systems Biology</i> , 2013, 7, S9.	3.0	10
67	Cnot3 enhances human embryonic cardiomyocyte proliferation by promoting cell cycle inhibitor mRNA degradation. <i>Scientific Reports</i> , 2017, 7, 1500.	3.3	10
68	Intrinsic Dynamics Analysis of a DNA Octahedron by Elastic Network Model. <i>Molecules</i> , 2017, 22, 145.	3.8	10
69	Knowledge-Guided "Community Network" Analysis Reveals the Functional Modules and Candidate Targets in Non-Small-Cell Lung Cancer. <i>Cells</i> , 2021, 10, 402.	4.1	10
70	Characterization of R9AP, a Membrane Anchor for the Photoreceptor GTPase-Accelerating Protein, RGS9-1. <i>Methods in Enzymology</i> , 2004, 390, 178-196.	1.0	9
71	Molecular design of DNA polyhedra based on genus. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 2380-2394.	1.5	9
72	Transcription coactivator Cited1 acts as an inducer of trophoblast-like state from mouse embryonic stem cells through the activation of BMP signaling. <i>Cell Death and Disease</i> , 2018, 9, 924.	6.3	9

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73	Modulation of Toroidal Proteins Dynamics in Favor of Functional Mechanisms upon Ligand Binding. Biophysical Journal, 2020, 118, 1782-1794.	0.5	9
74	Biophysical Insight into the SARS-CoV2 Spike-ACE2 Interaction and Its Modulation by Hepcidin through a Multifaceted Computational Approach. ACS Omega, 2022, 7, 17024-17042.	3.5	9
75	The complexity of Platonic and Archimedean polyhedral links. Journal of Mathematical Chemistry, 2010, 48, 401-412.	1.5	8
76	Amino acid network for prediction of catalytic residues in enzymes: a comparison survey. Current Protein and Peptide Science, 2015, 17, 41-51.	1.4	8
77	Protein-Protein Interface and Disease: Perspective from Biomolecular Networks. Advances in Biochemical Engineering/Biotechnology, 2016, 160, 57-74.	1.1	8
78	Network Analysis of Protein Structures: The Comparison of Three Topologies. Current Bioinformatics, 2016, 11, 480-489.	1.5	8
79	Normal Mode Analysis of Trp RNA Binding Attenuation Protein: Structure and Collective Motions. Journal of Chemical Information and Modeling, 2011, 51, 2361-2371.	5.4	7
80	Oct4GiP Reporter Assay to Study Genes that Regulate Mouse Embryonic Stem Cell Maintenance and Self-renewal. Journal of Visualized Experiments, 2012, , .	0.3	7
81	Molecular Dynamic Simulation to Explore the Molecular Basis of Btk-PH Domain Interaction with Ins(1,3,4,5)P4. Scientific World Journal, The, 2013, 2013, 1-10.	2.1	7
82	Identification of Allosteric Effects in Proteins by Elastic Network Models. Methods in Molecular Biology, 2021, 2253, 21-35.	0.9	7
83	Leveraging Protein Dynamics to Identify Functional Phosphorylation Sites using Deep Learning Models. Journal of Chemical Information and Modeling, 2022, 62, 3331-3345.	5.4	7
84	Topological Analysis of Enzymatic Actions on DNA Polyhedral Links. Bulletin of Mathematical Biology, 2011, 73, 3030-3046.	1.9	6
85	An analysis and validation pipeline for large-scale RNAi-based screens. Scientific Reports, 2013, 3, 1076.	3.3	5
86	Translational Bioinformatics and Computational Systems Medicine. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-2.	1.3	5
87	Role of protein-protein interactions in allosteric drug design for DNA methyltransferases. Advances in Protein Chemistry and Structural Biology, 2020, 121, 49-84.	2.3	5
88	Network-Based Target Prioritization and Drug Candidate Identification for Multiple Sclerosis: From Analyzing Omics Data to Druggability Simulations. ACS Chemical Neuroscience, 2021, 12, 917-929.	3.5	5
89	Insights into Conformational Dynamics and Allostery in DNMT1-H3Ub/USP7 Interactions. Molecules, 2021, 26, 5153.	3.8	5
90	Protein Structure Network-based Drug Design. Mini-Reviews in Medicinal Chemistry, 2016, 16, 1330-1343.	2.4	5

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91	Network Proteomics: From Protein Structure to Protein-Protein Interaction. <i>BioMed Research International</i> , 2017, 2017, 1-1.	1.9	4
92	Attractive target wave patterns in complex networks consisting of excitable nodes. <i>Chinese Physics B</i> , 2014, 23, 078906.	1.4	3
93	Remodeling super-enhancers and oncogenic transcription. <i>Cell Cycle</i> , 2016, 15, 3157-3158.	2.6	3
94	Dissecting mutational allosteric effects in alkaline phosphatases associated with different Hypophosphatasia phenotypes: An integrative computational investigation. <i>PLoS Computational Biology</i> , 2022, 18, e1010009.	3.2	3
95	Efficient simulation of isotope aggregated and fine structure by vector manipulation and change-making strategy. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 70-76.	1.5	2
96	Editorial: Understanding Protein Dynamics, Binding and Allostery for Drug Design. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 681364.	3.5	2
97	Use of Genome-Wide RNAi Screens to Identify Regulators of Embryonic Stem Cell Pluripotency and Self-Renewal. <i>Methods in Molecular Biology</i> , 2014, 1150, 163-173.	0.9	2
98	A NOD-Like Receptor Signaling-Based Gene Signature Identified as a Novel Prognostic Biomarker for Predicting Overall Survival of Colorectal Cancer Patients. <i>Current Bioinformatics</i> , 2022, 17, 77-88.	1.5	2
99	Structural Biology Meets Biomolecular Networks: The Post-AlphaFold Era. <i>Current Bioinformatics</i> , 2022, 17, 493-497.	1.5	2
100	Identification of Biomarkers for Pharmacological Activity. <i>Translational Bioinformatics</i> , 2013, , 189-205.	0.0	1
101	Identifying novel glioma associated pathways based on integrated 'omics' data. , 2012, , .		0
102	Drug Design based on Protein Structure Network. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, , .	2.4	0