

# Yuan-Chih Chang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2533100/yuan-chih-chang-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

1,379  
citations

21  
h-index

35  
g-index

64  
ext. papers

1,674  
ext. citations

7.5  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
60	Structure-guided antibody cocktail for prevention and treatment of COVID-19. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009704	7.6	6
59	Effect of SARS-CoV-2 B.1.1.7 mutations on spike protein structure and function. <i>Nature Structural and Molecular Biology</i> , <b>2021</b> , 28, 731-739	17.6	40
58	D614G mutation in the SARS-CoV-2 spike protein enhances viral fitness by desensitizing it to temperature-dependent denaturation. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101238	5.4	11
57	Premature Drug Release from Polyethylene Glycol (PEG)-Coated Liposomal Doxorubicin Formation of the Membrane Attack Complex. <i>ACS Nano</i> , <b>2020</b> , 14, 7808-7822	16.7	31
56	Cryo-EM analysis of a feline coronavirus spike protein reveals a unique structure and camouflaging glycans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1438-1446	11.5	58
55	Use of Cryo-EM To Uncover Structural Bases of pH Effect and Cofactor Bispecificity of Ketol-Acid Reductoisomerase. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 6136-6140	16.4	9
54	Viromimetic STING Agonist-Loaded Hollow Polymeric Nanoparticles for Safe and Effective Vaccination against Middle East Respiratory Syndrome Coronavirus. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807616	15.6	89
53	Positive charge of Arg-201 on hemagglutinin is required for the binding of H6N1 avian influenza virus to its target through a two-step process. <i>Virus Research</i> , <b>2019</b> , 265, 132-137	6.4	1
52	Temperature-Resolved Cryo-EM Uncovers Structural Bases of Temperature-Dependent Enzyme Functions. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19983-19987	16.4	16
51	Roles of Textural and Surface Properties of Nanoparticles in Ultrasound-Responsive Systems. <i>Langmuir</i> , <b>2018</b> , 34, 1256-1265	4	9
50	Colistin nanoparticle assembly by coacervate complexation with polyanionic peptides for treating drug-resistant gram-negative bacteria. <i>Acta Biomaterialia</i> , <b>2018</b> , 82, 133-142	10.8	21
49	Angiogenesis-targeting microbubbles combined with ultrasound-mediated gene therapy in brain tumors. <i>Journal of Controlled Release</i> , <b>2017</b> , 255, 164-175	11.7	52
48	Superhydrophobic silica nanoparticles as ultrasound contrast agents. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 36, 262-269	8.9	45
47	Targeting and Enrichment of Viral Pathogen by Cell Membrane Cloaked Magnetic Nanoparticles for Enhanced Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39953-39961	9.5	50
46	The Arginine Pairs and C-Termini of the Sso7c4 from <i>Sulfolobus solfataricus</i> Participate in Binding and Bending DNA. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169627	3.7	3
45	Hollow Cone Electron Imaging for Single Particle 3D Reconstruction of Proteins. <i>Scientific Reports</i> , <b>2016</b> , 6, 27701	4.9	3
44	Inertial cavitation initiated by polytetrafluoroethylene nanoparticles under pulsed ultrasound stimulation. <i>Ultrasonics Sonochemistry</i> , <b>2016</b> , 32, 1-7	8.9	31

43	Improving Nanoparticle Penetration in Tumors by Vascular Disruption with Acoustic Droplet Vaporization. <i>Theranostics</i> , <b>2016</b> , 6, 392-403	12.1	82
42	Noninvasive, Targeted, and Non-Viral Ultrasound-Mediated GDNF-Plasmid Delivery for Treatment of Parkinson's Disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 19579	4.9	73
41	Structural Basis for the Magnesium-Dependent Activation and Hexamerization of the Lon AAA+ Protease. <i>Structure</i> , <b>2016</b> , 24, 676-686	5.2	28
40	A novel liposomal recombinant lipoimmunogen enhances anti-tumor immunity. <i>Journal of Controlled Release</i> , <b>2016</b> , 233, 57-63	11.7	15
39	Biomimicking Platelet-Monocyte Interactions as a Novel Targeting Strategy for Heart Healing. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2686-2697	10.1	16
38	Folate-conjugated gene-carrying microbubbles with focused ultrasound for concurrent blood-brain barrier opening and local gene delivery. <i>Biomaterials</i> , <b>2016</b> , 106, 46-57	15.6	66
37	Effect of focused ion beam deposition induced contamination on the transport properties of nano devices. <i>Nanotechnology</i> , <b>2015</b> , 26, 055705	3.4	9
36	Internal polymer scaffolding in lipid-coated microbubbles for control of inertial cavitation in ultrasound theranostics. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5938-5941	7.3	8
35	Structure of yeast Ape1 and its role in autophagic vesicle formation. <i>Autophagy</i> , <b>2015</b> , 11, 1580-93	10.2	11
34	W8, a new Sup35 prion strain, transmits distinctive information with a conserved assembly scheme. <i>Prion</i> , <b>2015</b> , 9, 207-27	2.3	9
33	Drug-loaded bubbles with matched focused ultrasound excitation for concurrent blood-brain barrier opening and brain-tumor drug delivery. <i>Acta Biomaterialia</i> , <b>2015</b> , 15, 89-101	10.8	54
32	Atomic Force Microscopy Characterization of Protein Fibrils Formed by the Amyloidogenic Region of the Bacterial Protein MinE on Mica and a Supported Lipid Bilayer. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142506	3.7	12
31	The T4 phage DNA mimic protein Arn inhibits the DNA binding activity of the bacterial histone-like protein H-NS. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 27046-27054	5.4	21
30	Stacking fault induced tunnel barrier in platelet graphite nanofiber. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 103505	3.4	4
29	Characterization of single 1.8-nm Au nanoparticle attachments on AFM tips for single sub-4-nm object pickup. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 482	5	5
28	Simple and Fast Method To Fabricate Single-Nanoparticle-Terminated Atomic Force Microscope Tips. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 13239-13246	3.8	6
27	Investigation of single-walled carbon nanotubes with a low-energy electron point projection microscope. <i>New Journal of Physics</i> , <b>2013</b> , 15, 043015	2.9	12
26	LipL41, a hemin binding protein from <i>Leptospira santarosai</i> serovar Shermani. <i>PLoS ONE</i> , <b>2013</b> , 8, e83246.7		11

25	Critical capillary absorption of current-melted silver nanodroplets into multiwalled carbon nanotubes. <i>Small</i> , <b>2012</b> , 8, 2158-62	11	9
24	Effects of oxygen bonding on defective semiconducting and metallic single-walled carbon nanotube bundles. <i>Carbon</i> , <b>2012</b> , 50, 4619-4627	10.4	7
23	Functional studies of ssDNA binding ability of MarR family protein TcaR from <i>Staphylococcus epidermidis</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e45665	3.7	5
22	Lattice-resolved frictional pattern probed by tailored carbon nanotubes. <i>Nanotechnology</i> , <b>2010</b> , 21, 055702	3.4	5
21	Resonance frequency shift of a carbon nanotube with a silver nanoparticle adsorbed at various positions. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 133105	3.4	6
20	Three new structures of left-handed RADA helical filaments: structural flexibility of N-terminal domain is critical for recombinase activity. <i>PLoS ONE</i> , <b>2009</b> , 4, e4890	3.7	11
19	The fabrication of carbon nanotube probes utilizing ultra-high vacuum transmission electron microscopy. <i>Nanotechnology</i> , <b>2009</b> , 20, 285307	3.4	10
18	Specular scattering probability of acoustic phonons in atomically flat interfaces. <i>Physical Review Letters</i> , <b>2009</b> , 103, 264301	7.4	41
17	Two-dimensional dopant profiling by electrostatic force microscopy using carbon nanotube modified cantilevers. <i>Nanotechnology</i> , <b>2008</b> , 19, 325703	3.4	7
16	Nanoscale doping fluctuation resolved by electrostatic force microscopy via the effect of surface band bending. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 253102	3.4	5
15	In situ tailoring and manipulation of carbon nanotubes. <i>Small</i> , <b>2008</b> , 4, 2195-8	11	11
14	Authors' reply to correspondence from Egelman. <i>BioEssays</i> , <b>2008</b> , 30, 1254-5	4.1	2
13	Crystal structure of the left-handed archaeal RadA helical filament: identification of a functional motif for controlling quaternary structures and enzymatic functions of RecA family proteins. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 1787-801	20.1	35
12	Curvature effect on the surface diffusion of silver adatoms on carbon nanotubes: Deposition experiments and numerical simulations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	16
11	Using two-dimensional vibration cutting for micro-milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2006</b> , 46, 659-666	9.4	89
10	Molecular visualization of the yeast Dmc1 protein ring and Dmc1-ssDNA nucleoprotein complex. <i>Biochemistry</i> , <b>2005</b> , 44, 6052-8	3.2	22
9	Polymerization of a Confined System: Chemical Synthesis of Tetrahedral Amorphous Carbon Nanoballs from Graphitic Carbon Nanocapsules. <i>Advanced Materials</i> , <b>2005</b> , 17, 2707-2710	24	6
8	Calcium ion promotes yeast Dmc1 activity via formation of long and fine helical filaments with single-stranded DNA. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 40980-4	5.4	39

7	Nanoscale Imaging of Biomolecules by Controlled Carbon Nanotube Probes. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 4517-4520	1.4	5
6	Heterodimeric complexes of Hop2 and Mnd1 function with Dmc1 to promote meiotic homolog juxtaposition and strand assimilation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 10572-7	11.5	90
5	Self-polymerization of archaeal RadA protein into long and fine helical filaments. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 323, 845-51	3.4	16
4	Easy method to adjust the angle of the carbon nanotube probe of an atomic force microscope. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3541-3543	3.4	13
3	COVID-19 dominant D614G mutation in the SARS-CoV-2 spike protein desensitizes its temperature-dependent denaturation		4
2	Impacts on the structure-function relationship of SARS-CoV-2 spike by B.1.1.7 mutations		2
1	Structure-activity relationships of B.1.617 and other SARS-CoV-2 spike variants		6