

# Yuan-Chih Chang

## List of Publications by Citations

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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	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
59	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
58	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
57	Improving Nanoparticle Penetration in Tumors by Vascular Disruption with Acoustic Droplet Vaporization. <i>Theranostics</i> , <b>2016</b> , 6, 392-403	12.1	82
56	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
55	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
54	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, 14381-1446	11.5	58
53	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
52	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
51	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
50	Superhydrophobic silica nanoparticles as ultrasound contrast agents. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 36, 262-269	8.9	45
49	Specular scattering probability of acoustic phonons in atomically flat interfaces. <i>Physical Review Letters</i> , <b>2009</b> , 103, 264301	7.4	41
48	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
47	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
46	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
45	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
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	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
42	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
41	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
40	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
39	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
38	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
37	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
36	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
35	A novel liposomal recombinant lipoimmunogen enhances anti-tumor immunity. <i>Journal of Controlled Release</i> , <b>2016</b> , 233, 57-63	11.7	15
34	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
33	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
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	Structure of yeast Ape1 and its role in autophagic vesicle formation. <i>Autophagy</i> , <b>2015</b> , 11, 1580-93	10.2	11
30	LipL41, a hemin binding protein from <i>Leptospira santarosai</i> serovar Shermani. <i>PLoS ONE</i> , <b>2013</b> , 8, e83246	7.7	11
29	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
28	In situ tailoring and manipulation of carbon nanotubes. <i>Small</i> , <b>2008</b> , 4, 2195-8	11	11
27	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
26	The fabrication of carbon nanotube probes utilizing ultra-high vacuum transmission electron microscopy. <i>Nanotechnology</i> , <b>2009</b> , 20, 285307	3.4	10

25	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
24	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
23	Roles of Textural and Surface Properties of Nanoparticles in Ultrasound-Responsive Systems. <i>Langmuir</i> , <b>2018</b> , 34, 1256-1265	4	9
22	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
21	Critical capillary absorption of current-melted silver nanodroplets into multiwalled carbon nanotubes. <i>Small</i> , <b>2012</b> , 8, 2158-62	11	9
20	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
19	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
18	Two-dimensional dopant profiling by electrostatic force microscopy using carbon nanotube modified cantilevers. <i>Nanotechnology</i> , <b>2008</b> , 19, 325703	3.4	7
17	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
16	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
15	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
14	Structure-guided antibody cocktail for prevention and treatment of COVID-19. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009704	7.6	6
13	Structure-activity relationships of B.1.617 and other SARS-CoV-2 spike variants		6
12	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
11	Lattice-resolved frictional pattern probed by tailored carbon nanotubes. <i>Nanotechnology</i> , <b>2010</b> , 21, 055702	3.4	5
10	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
9	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
8	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

7	Stacking fault induced tunnel barrier in platelet graphite nanofiber. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 103505	3-4	4
6	COVID-19 dominant D614G mutation in the SARS-CoV-2 spike protein desensitizes its temperature-dependent denaturation		4
5	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
4	Hollow Cone Electron Imaging for Single Particle 3D Reconstruction of Proteins. <i>Scientific Reports</i> , <b>2016</b> , 6, 27701	4-9	3
3	AuthorsVreply to correspondence from Egelman. <i>BioEssays</i> , <b>2008</b> , 30, 1254-5	4-1	2
2	Impacts on the structure-function relationship of SARS-CoV-2 spike by B.1.1.7 mutations		2
1	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