

Yuan-Chih Chang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,914
citations

279701

23
h-index

276775

41
g-index

64
all docs

64
docs citations

64
times ranked

3261
citing authors

#	ARTICLE	IF	CITATIONS
1	Viromimetic STING Agonist-Loaded Hollow Polymeric Nanoparticles for Safe and Effective Vaccination against Middle East Respiratory Syndrome Coronavirus. <i>Advanced Functional Materials</i> , 2019, 29, 1807616.	7.8	128
2	Effect of SARS-CoV-2 B.1.1.7 mutations on spike protein structure and function. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 731-739.	3.6	124
3	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> , 2004, 101, 10572-10577.	3.3	110
4	Using two-dimensional vibration cutting for micro-milling. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 659-666.	6.2	103
5	Improving Nanoparticle Penetration in Tumors by Vascular Disruption with Acoustic Droplet Vaporization. <i>Theranostics</i> , 2016, 6, 392-403.	4.6	99
6	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> , 2020, 117, 1438-1446.	3.3	94
7	Noninvasive, Targeted and Non-Viral Ultrasound-Mediated GDNF-Plasmid Delivery for Treatment of Parkinson's Disease. <i>Scientific Reports</i> , 2016, 6, 19579.	1.6	91
8	Folate-conjugated gene-carrying microbubbles with focused ultrasound for concurrent blood-brain barrier opening and local gene delivery. <i>Biomaterials</i> , 2016, 106, 46-57.	5.7	88
9	Drug-loaded bubbles with matched focused ultrasound excitation for concurrent blood-brain barrier opening and brain-tumor drug delivery. <i>Acta Biomaterialia</i> , 2015, 15, 89-101.	4.1	67
10	Premature Drug Release from Polyethylene Glycol (PEG)-Coated Liposomal Doxorubicin via Formation of the Membrane Attack Complex. <i>ACS Nano</i> , 2020, 14, 7808-7822.	7.3	65
11	Angiogenesis-targeting microbubbles combined with ultrasound-mediated gene therapy in brain tumors. <i>Journal of Controlled Release</i> , 2017, 255, 164-175.	4.8	64
12	Targeting and Enrichment of Viral Pathogen by Cell Membrane Cloaked Magnetic Nanoparticles for Enhanced Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39953-39961.	4.0	61
13	Superhydrophobic silica nanoparticles as ultrasound contrast agents. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 262-269.	3.8	53
14	Specular Scattering Probability of Acoustic Phonons in Atomically Flat Interfaces. <i>Physical Review Letters</i> , 2009, 103, 264301.	2.9	49
15	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> , 2021, 297, 101238.	1.6	46
16	Calcium Ion Promotes Yeast Dmc1 Activity via Formation of Long and Fine Helical Filaments with Single-stranded DNA. <i>Journal of Biological Chemistry</i> , 2005, 280, 40980-40984.	1.6	44
17	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> , 2007, 35, 1787-1801.	6.5	40
18	Inertial cavitation initiated by polytetrafluoroethylene nanoparticles under pulsed ultrasound stimulation. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 1-7.	3.8	39

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19	Colistin nanoparticle assembly by coacervate complexation with polyanionic peptides for treating drug-resistant gram-negative bacteria. <i>Acta Biomaterialia</i> , 2018, 82, 133-142.	4.1	36
20	Structural Basis for the Magnesium-Dependent Activation and Hexamerization of the Lon AAA+ Protease. <i>Structure</i> , 2016, 24, 676-686.	1.6	33
21	Temperature-Resolved Cryo-EM Uncovers Structural Bases of Temperature-Dependent Enzyme Functions. <i>Journal of the American Chemical Society</i> , 2019, 141, 19983-19987.	6.6	32
22	Biomimicking Platelet-Monocyte Interactions as a Novel Targeting Strategy for Heart Healing. <i>Advanced Healthcare Materials</i> , 2016, 5, 2686-2697.	3.9	31
23	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> , 2014, 289, 27046-27054.	1.6	28
24	Molecular Visualization of the Yeast Dmc1 Protein Ring and Dmc1-ssDNA Nucleoprotein Complex. <i>Biochemistry</i> , 2005, 44, 6052-6058.	1.2	25
25	Curvature effect on the surface diffusion of silver adatoms on carbon nanotubes: Deposition experiments and numerical simulations. <i>Physical Review B</i> , 2006, 74, .	1.1	20
26	LipL41, a Hemin Binding Protein from <i>Leptospira santarosai</i> serovar Shermani. <i>PLoS ONE</i> , 2013, 8, e83246.	1.1	19
27	Structure of yeast Ape1 and its role in autophagic vesicle formation. <i>Autophagy</i> , 2015, 11, 1580-1593.	4.3	17
28	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> , 2015, 10, e0142506.	1.1	17
29	Self-polymerization of archaeal RadA protein into long and fine helical filaments. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 845-851.	1.0	16
30	A novel liposomal recombinant lipoimmunogen enhances anti-tumor immunity. <i>Journal of Controlled Release</i> , 2016, 233, 57-63.	4.8	16
31	Three New Structures of Left-Handed RadA Helical Filaments: Structural Flexibility of N-Terminal Domain Is Critical for Recombinase Activity. <i>PLoS ONE</i> , 2009, 4, e4890.	1.1	15
32	Easy method to adjust the angle of the carbon nanotube probe of an atomic force microscope. <i>Applied Physics Letters</i> , 2003, 82, 3541-3543.	1.5	13
33	Investigation of single-walled carbon nanotubes with a low-energy electron point projection microscope. <i>New Journal of Physics</i> , 2013, 15, 043015.	1.2	13
34	Effect of focused ion beam deposition induced contamination on the transport properties of nano devices. <i>Nanotechnology</i> , 2015, 26, 055705.	1.3	13
35	Internal polymer scaffolding in lipid-coated microbubbles for control of inertial cavitation in ultrasound theranostics. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5938-5941.	2.9	12
36	Roles of Textural and Surface Properties of Nanoparticles in Ultrasound-Responsive Systems. <i>Langmuir</i> , 2018, 34, 1256-1265.	1.6	12

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37	Structure-guided antibody cocktail for prevention and treatment of COVID-19. <i>PLoS Pathogens</i> , 2021, 17, e1009704.	2.1	12
38	In Situ Tailoring and Manipulation of Carbon Nanotubes. <i>Small</i> , 2008, 4, 2195-2198.	5.2	11
39	The fabrication of carbon nanotube probes utilizing ultra-high vacuum transmission electron microscopy. <i>Nanotechnology</i> , 2009, 20, 285307.	1.3	11
40	Critical Capillary Absorption of Currentâ€Melted Silver Nanodroplets into Multiwalled Carbon Nanotubes. <i>Small</i> , 2012, 8, 2158-2162.	5.2	11
41	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> , 2019, 141, 6136-6140.	6.6	11
42	W8, a new Sup35 prion strain, transmits distinctive information with a conserved assembly scheme. <i>Prion</i> , 2015, 9, 207-227.	0.9	10
43	Nanoscale Imaging of Biomolecules by Controlled Carbon Nanotube Probes. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4517-4520.	0.8	8
44	Two-dimensional dopant profiling by electrostatic force microscopy using carbon nanotube modified cantilevers. <i>Nanotechnology</i> , 2008, 19, 325703.	1.3	7
45	Lattice-resolved frictional pattern probed by tailored carbon nanotubes. <i>Nanotechnology</i> , 2010, 21, 055702.	1.3	7
46	Effects of oxygen bonding on defective semiconducting and metallic single-walled carbon nanotube bundles. <i>Carbon</i> , 2012, 50, 4619-4627.	5.4	7
47	Characterization of single 1.8-nm Au nanoparticle attachments on AFM tips for single sub-4-nm object pickup. <i>Nanoscale Research Letters</i> , 2013, 8, 482.	3.1	7
48	Simple and Fast Method To Fabricate Single-Nanoparticle-Terminated Atomic Force Microscope Tips. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13239-13246.	1.5	7
49	Polymerization of a Confined ĩ€-System: Chemical Synthesis of Tetrahedral Amorphous Carbon Nanoballs from Graphitic Carbon Nanocapsules. <i>Advanced Materials</i> , 2005, 17, 2707-2710.	11.1	6
50	Resonance frequency shift of a carbon nanotube with a silver nanoparticle adsorbed at various positions. <i>Applied Physics Letters</i> , 2010, 97, 133105.	1.5	6
51	Functional Studies of ssDNA Binding Ability of MarR Family Protein TcaR from <i>Staphylococcus epidermidis</i> . <i>PLoS ONE</i> , 2012, 7, e45665.	1.1	6
52	Nanoscale doping fluctuation resolved by electrostatic force microscopy via the effect of surface band bending. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	5
53	Stacking fault induced tunnel barrier in platelet graphite nanofiber. <i>Applied Physics Letters</i> , 2014, 105, 103505.	1.5	5
54	Hollow Cone Electron Imaging for Single Particle 3D Reconstruction of Proteins. <i>Scientific Reports</i> , 2016, 6, 27701.	1.6	4

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55	The Arginine Pairs and C-Termini of the Sso7c4 from Sulfolobus solfataricus Participate in Binding and Bending DNA. PLoS ONE, 2017, 12, e0169627.	1.1	4
56	Authors' reply to correspondence from Egelman. BioEssays, 2008, 30, 1254-1255.	1.2	2
57	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. Virus Research, 2019, 265, 132-137.	1.1	1
58	Preparation of High-Temperature Sample Grids for Cryo-EM. Journal of Visualized Experiments, 2021, , .	0.2	1
59	Hopping growth mechanism of single carbon nanotubes synthesized by the CVD technique. , 0, , .		0
60	LipL41, a Hemin Binding Protein from Leptospira santarosai. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1675-C1675.	0.0	0