

Chia-Ching Chang

List of Publications by Year in descending order

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93
papers

2,060
citations

361296

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h-index

243529

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docs citations

95
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Tannic acid-induced interfacial ligand-to-metal charge transfer and the phase transformation of Fe ₃ O ₄ nanoparticles for the photothermal bacteria destruction. <i>Chemical Engineering Journal</i> , 2022, 428, 131237.	6.6	30
2	Chitosan-Coated-PLGA Nanoparticles Enhance the Antitumor and Antimigration Activity of Stattic A STAT3 Dimerization Blocker. <i>International Journal of Nanomedicine</i> , 2022, Volume 17, 137-150.	3.3	18
3	Plasma Gelsolin Confers Chemoresistance in Ovarian Cancer by Resetting the Relative Abundance and Function of Macrophage Subtypes. <i>Cancers</i> , 2022, 14, 1039.	1.7	11
4	Stability of SARS-CoV-2 Spike G614 Variant Surpasses That of the D614 Variant after Cold Storage. <i>MSphere</i> , 2021, 6, .	1.3	21
5	Development of flexible electrochemical impedance spectroscopy-based biosensing platform for rapid screening of SARS-CoV-2 inhibitors. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113213.	5.3	44
6	Development of the Sensing Platform for Protein Tyrosine Kinase Activity. <i>Biosensors</i> , 2021, 11, 240.	2.3	0
7	Facile synthesis of biocompatible sub-5 nm alginate-stabilised gold nanoparticles with sonosensitising properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127141.	2.3	5
8	Local ablation of gastric cancer by reconstituted apolipoprotein B lipoparticles carrying epigenetic drugs. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 37, 102450.	1.7	3
9	Carboxylated nanodiamond-mediated CRISPR-Cas9 delivery of human retinoschisis mutation into human iPSCs and mouse retina. <i>Acta Biomaterialia</i> , 2020, 101, 484-494.	4.1	42
10	BAFF-driven NLRP3 inflammasome activation in B cells. <i>Cell Death and Disease</i> , 2020, 11, 820.	2.7	23
11	Using cationic polyurethane-short branch PEI as microRNA-driven nano-delivery system for stem cell differentiation. <i>Journal of the Chinese Medical Association</i> , 2020, 83, 367-370.	0.6	5
12	Surface active flexible palladium nano-thin-film electrode development for biosensing. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107461.	1.8	6
13	Morphological and Molecular Defects in Human Three-Dimensional Retinal Organoid Model of X-Linked Juvenile Retinoschisis. <i>Stem Cell Reports</i> , 2019, 13, 906-923.	2.3	70
14	Self-assembled amphiphilic chitosan: A time-dependent nanostructural evolution and associated drug encapsulation/elution mechanism. <i>Carbohydrate Polymers</i> , 2019, 215, 246-252.	5.1	11
15	The fabrication and application of Ni-DNA nanowire-based nanoelectronic devices. <i>Nano Research</i> , 2019, 12, 1293-1300.	5.8	7
16	Enhanced bioconjugation on sputtered palladium nano-thin-film electrode. <i>Applied Physics Letters</i> , 2019, 114, 093702.	1.5	5
17	Development of a Graphene Oxide-Incorporated Polydimethylsiloxane Membrane with Hexagonal Micropillars. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2517.	1.8	6
18	DNA-based nanowires and nanodevices. <i>Advances in Physics: X</i> , 2017, 2, 22-34.	1.5	3

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19	Exploration and characterization of the memcapacitor and memristor properties of Ni-DNA nanowire devices. <i>NPG Asia Materials</i> , 2017, 9, e430-e430.	3.8	10
20	In vivo amelioration of endogenous antitumor autoantibodies via low-dose P ₄ N through the LTA4H/activin A/BAFF pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7798-E7807.	3.3	9
21	Design and synthesis of pyridine-pyrazole-sulfonate derivatives as potential anti-HBV agents. <i>MedChemComm</i> , 2016, 7, 832-836.	3.5	14
22	Surface electromyography analysis of blepharoptosis correction by transconjunctival incisions. <i>Journal of Electromyography and Kinesiology</i> , 2016, 28, 23-30.	0.7	0
23	Laminin modification subretinal bio-scaffold remodels retinal pigment epithelium-driven microenvironment <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2016, 7, 64631-64648.	0.8	29
24	What's New in the Treatment of Poor Levator Function with Severe Blepharoptosis. <i>Plastic and Reconstructive Surgery</i> , 2015, 136, 100.	0.7	0
25	Development of nordihydroguaiaretic acid derivatives as potential multidrug-resistant selective agents for cancer treatment. <i>RSC Advances</i> , 2015, 5, 107833-107838.	1.7	6
26	Self-Monitoring and Self-Delivery of Photosensitizer-Doped Nanoparticles for Highly Effective Combination Cancer Therapy <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2015, 9, 9741-9756.	7.3	149
27	Preface: 7th Vacuum and Surface Sciences Conference of Asia and Australia (VASSCAA-7). <i>Applied Surface Science</i> , 2015, 354, 1.	3.1	0
28	Thermal stability and folding kinetics analysis of disordered protein, securin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 2171-2178.	2.0	4
29	Development of a Growth Hormone-Conjugated Nanodiamond Complex for Cancer Therapy. <i>ChemMedChem</i> , 2014, 9, 1023-1029.	1.6	17
30	Programmable Redox State of the Nickel Ion Chain in DNA. <i>Nano Letters</i> , 2014, 14, 1026-1031.	4.5	17
31	Simple and highly efficient direct thiolation of the surface of carbon nanotubes. <i>RSC Advances</i> , 2014, 4, 14777-14780.	1.7	17
32	Directly Thiolated Modification onto the Surface of Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7198-7203.	4.0	36
33	Single domain antibody against carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6) inhibits proliferation, migration, invasion and angiogenesis of pancreatic cancer cells. <i>European Journal of Cancer</i> , 2014, 50, 713-721.	1.3	29
34	Evidence of securin-mediated resistance to gefitinib-induced apoptosis in human cancer cells. <i>Chemico-Biological Interactions</i> , 2013, 203, 412-422.	1.7	14
35	Synthesis of Apolipoprotein B Lipoparticles to Deliver Hydrophobic/Amphiphilic Materials. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7509-7516.	4.0	12
36	Rapid and highly sensitive detection of Enterovirus 71 by using nanogold-enhanced electrochemical impedance spectroscopy. <i>Nanotechnology</i> , 2013, 24, 285102.	1.3	11

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37	Magnetic and Metal Binding Structural Analysis of Mn,Zn-Metallothionein-Green Fluorescence Fusion Protein. <i>Biophysical Journal</i> , 2012, 102, 187a.	0.2	0
38	Rapid Detection and Quantification of Enterovirus 71 by Electrochemical Impedance Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 189a.	0.2	0
39	Folding and Characterization of Intrinsically Disordered Protein Human Cyclin I (Ccn1). <i>Biophysical Journal</i> , 2012, 102, 634a-635a.	0.2	0
40	Specific features of the temperature behavior of lysozyme diffusivity in solutions with different protein concentrations. <i>Journal of Molecular Liquids</i> , 2012, 168, 7-11.	2.3	2
41	Apolipoprotein B Reconstruction at Single Molecular Level. <i>Biophysical Journal</i> , 2011, 100, 542a.	0.2	0
42	Ni ²⁺ Enhanced Charge Transport via Pi Pi Stacking Corridor in Metallic DNA. <i>Biophysical Journal</i> , 2011, 100, 472a.	0.2	0
43	Folding Mechanism Revealing of PGB1 by FRET and Molecular Simulation. <i>Biophysical Journal</i> , 2011, 100, 543a.	0.2	0
44	Ni ²⁺ -Enhanced Charge Transport via π - π Stacking Corridor in Metallic DNA. <i>Biophysical Journal</i> , 2011, 100, 1042-1048.	0.2	12
45	A unique and potent protein binding nature of liposome containing polyethylenimine and polyethylene Glycol: A nondisplaceable property. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1318-1327.	1.7	20
46	Haemoglobin-induced oxidative stress is associated with both endogenous peroxidase activity and H ₂ O ₂ generation from polyunsaturated fatty acids. <i>Free Radical Research</i> , 2011, 45, 303-316.	1.5	7
47	Human haptoglobin phenotypes and concentration determination by nanogold-enhanced electrochemical impedance spectroscopy. <i>Nanotechnology</i> , 2011, 22, 245105.	1.3	15
48	Missense Mutation in APOC3 within the C-terminal Lipid Binding Domain of Human ApoC-III Results in Impaired Assembly and Secretion of Triacylglycerol-rich Very Low Density Lipoproteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 27769-27780.	1.6	91
49	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284.		2
50	Protein-nanodiamond complexes for cellular surgery. , 2010, , 189-224.		2
51	Hemoglobin induced oxidative stress is associated with both endogenous peroxidase activity and H ₂ O ₂ generation from polyunsaturated fatty acids. <i>FASEB Journal</i> , 2010, 24, 463.3.	0.2	0
52	Molecular Mechanism of Nanodiamonds Attacking Cancer Cell. <i>FASEB Journal</i> , 2010, 24, 520.1.	0.2	0
53	An unopened knot protein: YbeA. <i>FASEB Journal</i> , 2010, 24, 684.3.	0.2	0
54	Room temperature negative differential resistance in DNA-based molecular devices. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	35

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55	Direct Observation of Single Molecule Conformational Change of Tight-Turn Paperclip DNA Triplex in Solution. <i>Applied Biochemistry and Biotechnology</i> , 2009, 159, 261-269.	1.4	3
56	Characterizing the polymeric status of <i>Helicobacter pylori</i> heat shock protein 60. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 283-289.	1.0	25
57	Laser Induced Popcorn-like Conformational Transition of Nano-diamond as a Nanoknife. <i>Biophysical Journal</i> , 2009, 96, 28a.	0.2	1
58	Resonant X-Ray Scattering and Absorption for the Global and Local Structures of Cu-modified Metallothioneins in Solution. <i>Biophysical Journal</i> , 2009, 97, 609-617.	0.2	12
59	Alpha-bungarotoxin binding to target cell in a developing visual system by carboxylated nanodiamond. <i>Nanotechnology</i> , 2008, 19, 205102.	1.3	61
60	Laser induced popcornlike conformational transition of nanodiamond as a nanoknife. <i>Applied Physics Letters</i> , 2008, 93, 033905.	1.5	14
61	Ni ²⁺ doping DNA: a semiconducting biopolymer. <i>Nanotechnology</i> , 2008, 19, 355703.	1.3	13
62	Popcorn-like Conformational Transition of Bio-nanoparticle Complex: Analysis and Application. <i>FASEB Journal</i> , 2008, 22, 622.2.	0.2	0
63	Refolding of ybeA: a native knotted protein. <i>FASEB Journal</i> , 2008, 22, 609.3.	0.2	0
64	Calcium dependent p21 cip1/waf1 stabilizer cyclin I (Ccn1).. <i>FASEB Journal</i> , 2008, 22, 638.1.	0.2	0
65	Direct and in vitro observation of growth hormone receptor molecules in A549 human lung epithelial cells by nanodiamond labeling. <i>Applied Physics Letters</i> , 2007, 90, 163903.	1.5	109
66	Nanometer-Sized Diamond Particle as a Probe for Biolabeling. <i>Biophysical Journal</i> , 2007, 93, 2199-2208.	0.2	257
67	Direct visualization of triplex DNA molecular dynamics by fluorescence resonance energy transfer and atomic force microscopy measurements. <i>Applied Physics Letters</i> , 2007, 91, 203901.	1.5	7
68	Biocompatible and detectable carboxylated nanodiamond on human cell. <i>Nanotechnology</i> , 2007, 18, 325102.	1.3	250
69	Self-assembled molecular magnets on patterned silicon substrates: Bridging bio-molecules with nanoelectronics. <i>Biomaterials</i> , 2007, 28, 1941-1947.	5.7	12
70	Patterned self-assembly of magnetic biomolecules on semiconductor substrates. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1211-1214.	1.9	0
71	Activation of p38 mitogen-activated protein kinase by celecoxib oppositely regulates survivin and gamma-H2AX in human colorectal cancer cells. <i>Toxicology and Applied Pharmacology</i> , 2007, 222, 97-104.	1.3	43
72	Toxicity and detection of carboxylated nanodiamonds on human lung epithelial cells. <i>FASEB Journal</i> , 2007, 21, A267.	0.2	3

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73	Structure and function analysis of new member of cyclin family: Cyclin I. FASEB Journal, 2007, 21, A1034.	0.2	0
74	Human securin: a p53 mediated protooncogene. FASEB Journal, 2007, 21, A634.	0.2	0
75	The study of recombinant fish growth hormone (rEaGH) folding and aggregation. FASEB Journal, 2007, 21, A629.	0.2	0
76	Self-assembled Molecular Magnets on Patterned Silicon Substrates. , 2006, , .		0
77	Spectroscopic study of bio-functionalized nanodiamonds. Diamond and Related Materials, 2006, 15, 622-625.	1.8	184
78	Mn,Cd-metallothionein-2: A room temperature magnetic protein. Biochemical and Biophysical Research Communications, 2006, 340, 1134-1138.	1.0	5
79	2P091 Turing metallothionein into magnetic protein(30. Protein function (II),Poster) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50	0.0	0
80	Guided three-dimensional molecular self-assembly on silicon substrates. Applied Physics Letters, 2006, 88, 263104.	1.5	0
81	FOLDING AND STRUCTURAL CHARACTERIZATION OF RECOMBINANT CYCLIN-DEPENDENT KINASE INHIBITOR p21(Cip1, Waf1, Sdi1). Biophysical Reviews and Letters, 2006, 01, 45-56.	0.9	4
82	Protein folding stabilizing time measurement: A direct folding process and three-dimensional random walk simulation. Biochemical and Biophysical Research Communications, 2005, 328, 845-850.	1.0	8
83	Refolding of lysozyme by quasistatic and direct dilution reaction paths: A first-order-like state transition. Physical Review E, 2004, 70, 011904.	0.8	12
84	Transmission electron microscopic observations of membrane effects of antibiotic cecropin B on Escherichia coli. Microscopy Research and Technique, 2003, 62, 423-430.	1.2	37
85	A First-Order-Like State Transition for Recombinant Protein Folding. Journal of Biomolecular Structure and Dynamics, 2003, 21, 247-255.	2.0	10
86	Reversible folding of cysteine-rich metallothionein by an overcritical reaction path. Biochemical and Biophysical Research Communications, 2003, 306, 59-63.	1.0	14
87	Structural restoration of inactive recombinant fish growth hormones by chemical chaperonin and solvent restraint approaches. Protein Engineering, Design and Selection, 2002, 15, 437-441.	1.0	12
88	Protein folding by a quasi-static-like process: A first-order state transition. Physical Review E, 2002, 66, 021903.	0.8	19
89	Function and Sequence Analyses of Tumor Suppressor Gene p53 of CHO.K1 Cells. DNA and Cell Biology, 1999, 18, 315-321.	0.9	35
90	Simulation of Zn/Cd binding in mammalian metallothionein domains. , 1999, , 45-49.		1

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91	Cysteine contributions to metal binding preference for Zn/Cd in the beta-domain of metallothionein. <i>Protein Engineering, Design and Selection</i> , 1998, 11, 41-46.	1.0	17
92	Semi-empirical simulation of Zn/Cd binding site preference in the metal binding domains of mammalian metallothionein. <i>Protein Engineering, Design and Selection</i> , 1996, 9, 1165-1172.	1.0	21
93	Mutation of gene required for cell spreading is corrected by serum or factor secreted by normal cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1995, 31, 571-573.	0.7	0