

Chia-Ching Chang

List of Publications by Year in descending order

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93
papers

2,060
citations

361413

20
h-index

243625

44
g-index

95
all docs

95
docs citations

95
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanometer-Sized Diamond Particle as a Probe for Biolabeling. <i>Biophysical Journal</i> , 2007, 93, 2199-2208.	0.5	257
2	Biocompatible and detectable carboxylated nanodiamond on human cell. <i>Nanotechnology</i> , 2007, 18, 325102.	2.6	250
3	Spectroscopic study of bio-functionalized nanodiamonds. <i>Diamond and Related Materials</i> , 2006, 15, 622-625.	3.9	184
4	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.	14.6	149
5	Direct and <i>in vitro</i> observation of growth hormone receptor molecules in A549 human lung epithelial cells by nanodiamond labeling. <i>Applied Physics Letters</i> , 2007, 90, 163903.	3.3	109
6	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.	3.4	91
7	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.	4.8	70
8	Alpha-bungarotoxin binding to target cell in a developing visual system by carboxylated nanodiamond. <i>Nanotechnology</i> , 2008, 19, 205102.	2.6	61
9	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.	10.1	44
10	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.	2.8	43
11	Carboxylated nanodiamond-mediated CRISPR-Cas9 delivery of human retinoschisis mutation into human iPSCs and mouse retina. <i>Acta Biomaterialia</i> , 2020, 101, 484-494.	8.3	42
12	Transmission electron microscopic observations of membrane effects of antibiotic cecropin B on <i>Escherichia coli</i> . <i>Microscopy Research and Technique</i> , 2003, 62, 423-430.	2.2	37
13	Directly Thiolated Modification onto the Surface of Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7198-7203.	8.0	36
14	Function and Sequence Analyses of Tumor Suppressor Gene p53 of CHO.K1 Cells. <i>DNA and Cell Biology</i> , 1999, 18, 315-321.	1.9	35
15	Room temperature negative differential resistance in DNA-based molecular devices. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	35
16	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.	12.7	30
17	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.	2.8	29
18	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.	1.8	29

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19	Characterizing the polymeric status of <i>Helicobacter pylori</i> heat shock protein 60. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 283-289.	2.1	25
20	BAFF-driven NLRP3 inflammasome activation in B cells. <i>Cell Death and Disease</i> , 2020, 11, 820.	6.3	23
21	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.	2.1	21
22	Stability of SARS-CoV-2 Spike G614 Variant Surpasses That of the D614 Variant after Cold Storage. <i>MSphere</i> , 2021, 6, .	2.9	21
23	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.	3.3	20
24	Protein folding by a quasi-static-like process: A first-order state transition. <i>Physical Review E</i> , 2002, 66, 021903.	2.1	19
25	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.	6.7	18
26	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.	2.1	17
27	Development of a Growth Hormone Conjugated Nanodiamond Complex for Cancer Therapy. <i>ChemMedChem</i> , 2014, 9, 1023-1029.	3.2	17
28	Programmable Redox State of the Nickel Ion Chain in DNA. <i>Nano Letters</i> , 2014, 14, 1026-1031.	9.1	17
29	Simple and highly efficient direct thiolation of the surface of carbon nanotubes. <i>RSC Advances</i> , 2014, 4, 14777-14780.	3.6	17
30	Human haptoglobin phenotypes and concentration determination by nanogold-enhanced electrochemical impedance spectroscopy. <i>Nanotechnology</i> , 2011, 22, 245105.	2.6	15
31	Reversible folding of cysteine-rich metallothionein by an overcritical reaction path. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 59-63.	2.1	14
32	Laser induced popcornlike conformational transition of nanodiamond as a nanoknife. <i>Applied Physics Letters</i> , 2008, 93, 033905.	3.3	14
33	Evidence of securin-mediated resistance to gefitinib-induced apoptosis in human cancer cells. <i>Chemico-Biological Interactions</i> , 2013, 203, 412-422.	4.0	14
34	Design and synthesis of pyridine-pyrazole-sulfonate derivatives as potential anti-HBV agents. <i>MedChemComm</i> , 2016, 7, 832-836.	3.4	14
35	Ni ²⁺ doping DNA: a semiconducting biopolymer. <i>Nanotechnology</i> , 2008, 19, 355703.	2.6	13
36	Structural restoration of inactive recombinant fish growth hormones by chemical chaperonin and solvent restraint approaches. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 437-441.	2.1	12

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37	Refolding of lysozyme by quasistatic and direct dilution reaction paths: A first-order-like state transition. <i>Physical Review E</i> , 2004, 70, 011904.	2.1	12
38	Self-assembled molecular magnets on patterned silicon substrates: Bridging bio-molecules with nanoelectronics. <i>Biomaterials</i> , 2007, 28, 1941-1947.	11.4	12
39	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.	0.5	12
40	Ni ²⁺ -Enhanced Charge Transport via π - π Stacking Corridor in Metallic DNA. <i>Biophysical Journal</i> , 2011, 100, 1042-1048.	0.5	12
41	Synthesis of Apolipoprotein B Lipoparticles to Deliver Hydrophobic/Amphiphilic Materials. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7509-7516.	8.0	12
42	Rapid and highly sensitive detection of Enterovirus 71 by using nanogold-enhanced electrochemical impedance spectroscopy. <i>Nanotechnology</i> , 2013, 24, 285102.	2.6	11
43	Self-assembled amphiphilic chitosan: A time-dependent nanostructural evolution and associated drug encapsulation/elution mechanism. <i>Carbohydrate Polymers</i> , 2019, 215, 246-252.	10.2	11
44	Plasma Gelsolin Confers Chemoresistance in Ovarian Cancer by Resetting the Relative Abundance and Function of Macrophage Subtypes. <i>Cancers</i> , 2022, 14, 1039.	3.7	11
45	A First-Order-Like State Transition for Recombinant Protein Folding. <i>Journal of Biomolecular Structure and Dynamics</i> , 2003, 21, 247-255.	3.5	10
46	Exploration and characterization of the memcapacitor and memristor properties of Ni-DNA nanowire devices. <i>NPG Asia Materials</i> , 2017, 9, e430-e430.	7.9	10
47	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.	7.1	9
48	Protein folding stabilizing time measurement: A direct folding process and three-dimensional random walk simulation. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 845-850.	2.1	8
49	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.	3.3	7
50	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.	3.3	7
51	The fabrication and application of Ni-DNA nanowire-based nanoelectronic devices. <i>Nano Research</i> , 2019, 12, 1293-1300.	10.4	7
52	Development of nordihydroguaiaretic acid derivatives as potential multidrug-resistant selective agents for cancer treatment. <i>RSC Advances</i> , 2015, 5, 107833-107838.	3.6	6
53	Development of a Graphene Oxide-Incorporated Polydimethylsiloxane Membrane with Hexagonal Micropillars. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2517.	4.1	6
54	Surface active flexible palladium nano-thin-film electrode development for biosensing. <i>Inorganic Chemistry Communication</i> , 2019, 107, 107461.	3.9	6

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55	Mn,Cd-metallothionein-2: A room temperature magnetic protein. Biochemical and Biophysical Research Communications, 2006, 340, 1134-1138.	2.1	5
56	Enhanced bioconjugation on sputtered palladium nano-thin-film electrode. Applied Physics Letters, 2019, 114, 093702.	3.3	5
57	Using cationic polyurethane-short branch PEI as microRNA-driven nano-delivery system for stem cell differentiation. Journal of the Chinese Medical Association, 2020, 83, 367-370.	1.4	5
58	Facile synthesis of biocompatible sub-5Ånm alginate-stabilised gold nanoparticles with sonosensitising properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127141.	4.7	5
59	FOLDING AND STRUCTURAL CHARACTERIZATION OF RECOMBINANT CYCLIN-DEPENDENT KINASE INHIBITOR p21(Cip1, Waf1, Sdi1). Biophysical Reviews and Letters, 2006, 01, 45-56.	0.8	4
60	Thermal stability and folding kinetics analysis of disordered protein, securin. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2171-2178.	3.6	4
61	Direct Observation of Single Molecule Conformational Change of Tight-Turn Paperclip DNA Triplex in Solution. Applied Biochemistry and Biotechnology, 2009, 159, 261-269.	2.9	3
62	DNA-based nanowires and nanodevices. Advances in Physics: X, 2017, 2, 22-34.	4.1	3
63	Local ablation of gastric cancer by reconstituted apolipoprotein B lipoparticles carrying epigenetic drugs. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102450.	3.3	3
64	Toxicity and detection of carboxylated nanodiamonds on human lung epithelial cells. FASEB Journal, 2007, 21, A267.	0.5	3
65	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284.		2
66	Proteinâ€™Nanodiamond Complexes for Cellular Surgery. , 2010, , 189-224.		2
67	Specific features of the temperature behavior of lysozyme diffusivity in solutions with different protein concentrations. Journal of Molecular Liquids, 2012, 168, 7-11.	4.9	2
68	Laser Induced Popcorn-like Conformational Transition of Nano-diamond as a Nanoknife. Biophysical Journal, 2009, 96, 28a.	0.5	1
69	Simulation of Zn/Cd binding in mammalian metallothionein domains. , 1999, , 45-49.		1
70	Mutation of gene required for cell spreading is corrected by serum or factor secreted by normal cells. In Vitro Cellular and Developmental Biology - Animal, 1995, 31, 571-573.	1.5	0
71	Self-assembled Molecular Magnets on Patterned Silicon Substrates. , 2006, , .		0
72	2P091 Turing metallothionein into magnetic protein(30. Protein function (II),Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 62 Td (Sessio		0

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73	Guided three-dimensional molecular self-assembly on silicon substrates. Applied Physics Letters, 2006, 88, 263104.	3.3	0
74	Patterned self-assembly of magnetic biomolecules on semiconductor substrates. Journal of Physics and Chemistry of Solids, 2007, 68, 1211-1214.	4.0	0
75	Apolipoprotein B Reconstruction at Single Molecular Level. Biophysical Journal, 2011, 100, 542a.	0.5	0
76	Ni ²⁺ Enhanced Charge Transport via Pi Pi Stacking Corridor in Metallic DNA. Biophysical Journal, 2011, 100, 472a.	0.5	0
77	Folding Mechanism Revealing of PGB1 by FRET and Molecular Simulation. Biophysical Journal, 2011, 100, 543a.	0.5	0
78	Magnetic and Metal Binding Structural Analysis of Mn,Zn-Metallothionein-Green Fluorescence Fusion Protein. Biophysical Journal, 2012, 102, 187a.	0.5	0
79	Rapid Detection and Quantification of Enterovirus 71 by Electrochemical Impedance Spectroscopy. Biophysical Journal, 2012, 102, 189a.	0.5	0
80	Folding and Characterization of Intrinsically Disordered Protein Human Cyclin I (Ccn1). Biophysical Journal, 2012, 102, 634a-635a.	0.5	0
81	What's New in the Treatment of Poor Levator Function with Severe Blepharoptosis. Plastic and Reconstructive Surgery, 2015, 136, 100.	1.4	0
82	Preface: 7th Vacuum and Surface Sciences Conference of Asia and Australia (VASSCAA-7). Applied Surface Science, 2015, 354, 1.	6.1	0
83	Surface electromyography analysis of blepharoptosis correction by transconjunctival incisions. Journal of Electromyography and Kinesiology, 2016, 28, 23-30.	1.7	0
84	Development of the Sensing Platform for Protein Tyrosine Kinase Activity. Biosensors, 2021, 11, 240.	4.7	0
85	Structure and function analysis of new member of cyclin family: Cyclin I. FASEB Journal, 2007, 21, A1034.	0.5	0
86	Human securin: a p53 mediated protooncogene. FASEB Journal, 2007, 21, A634.	0.5	0
87	The study of recombinant fish growth hormone (rEaGH) folding and aggregation. FASEB Journal, 2007, 21, A629.	0.5	0
88	Popcorn-Like Conformational Transition of Bio-Nanoparticle Complex: Analysis and Application. FASEB Journal, 2008, 22, 622.2.	0.5	0
89	Refolding of ybeA: a native knotted protein. FASEB Journal, 2008, 22, 609.3.	0.5	0
90	Calcium dependent p21 cip1/waf1 stabilizer cyclin I (Ccn1).. FASEB Journal, 2008, 22, 638.1.	0.5	0

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91	Hemoglobin induced oxidative stress is associated with both endogenous peroxidase activity and H ₂ O ₂ generation from polyunsaturated fatty acids. FASEB Journal, 2010, 24, 463.3.	0.5	0
92	Molecular Mechanism of Nanodiamonds Attacking Cancer Cell. FASEB Journal, 2010, 24, 520.1.	0.5	0
93	An unopened knot protein: YbeA. FASEB Journal, 2010, 24, 684.3.	0.5	0