

# Dar-Bin Shieh

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,461  
citations

361413

20  
h-index

330143

37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2596  
citing authors

#	ARTICLE	IF	CITATIONS
1	The selective growth inhibition of oral cancer by iron core-gold shell nanoparticles through mitochondria-mediated autophagy. <i>Biomaterials</i> , 2011, 32, 4565-4573.	11.4	145
2	Aqueous dispersions of magnetite nanoparticles with NH <sub>3</sub> <sup>+</sup> surfaces for magnetic manipulations of biomolecules and MRI contrast agents. <i>Biomaterials</i> , 2005, 26, 7183-7191.	11.4	112
3	An innovative NRF2 nano-modulator induces lung cancer ferroptosis and elicits an immunostimulatory tumor microenvironment. <i>Theranostics</i> , 2021, 11, 7072-7091.	10.0	108
4	Cell Surface Nucleolin Facilitates Enterovirus 71 Binding and Infection. <i>Journal of Virology</i> , 2015, 89, 4527-4538.	3.4	98
5	In vivo anti-cancer efficacy of magnetite nanocrystal - based system using locoregional hyperthermia combined with 5-fluorouracil chemotherapy. <i>Biomaterials</i> , 2013, 34, 7873-7883.	11.4	91
6	The exosome-mediated autocrine and paracrine actions of plasma gelsolin in ovarian cancer chemoresistance. <i>Oncogene</i> , 2020, 39, 1600-1616.	5.9	85
7	Cancer-cell-specific cytotoxicity of non-oxidized iron elements in iron core-gold shell NPs. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 420-427.	3.3	66
8	Mitochondrial dynamics regulating chemoresistance in gynecological cancers. <i>Annals of the New York Academy of Sciences</i> , 2015, 1350, 1-16.	3.8	66
9	Cell fate regulation by gelsolin in human gynecologic cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14442-14447.	7.1	52
10	Assessment of zero-valent iron-based nanotherapeutics for ferroptosis induction and resensitization strategy in cancer cells. <i>Biomaterials Science</i> , 2019, 7, 1311-1322.	5.4	52
11	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
12	Tissue expression of gelsolin in oral carcinogenesis progression and its clinicopathological implications. <i>Oral Oncology</i> , 2006, 42, 599-606.	1.5	40
13	Size-control synthesis of structure deficient truncated octahedral Fe <sub>3</sub> O <sub>4</sub> nanoparticles: high magnetization magnetites as effective hepatic contrast agents. <i>Journal of Materials Chemistry</i> , 2011, 21, 7472.	6.7	39
14	A Biological Strategy for Fabrication of Au/EGFP Nanoparticle Conjugates Retaining Bioactivity. <i>Nano Letters</i> , 2004, 4, 1209-1212.	9.1	35
15	Handheld energy-efficient magneto-optical real-time quantitative PCR device for target DNA enrichment and quantification. <i>NPG Asia Materials</i> , 2016, 8, e277-e277.	7.9	35
16	Aqueous nickel-nitrilotriacetate modified Fe <sub>3</sub> O <sub>4</sub> -NH <sub>3</sub> <sup>+</sup> nanoparticles for protein purification and cell targeting. <i>Nanotechnology</i> , 2006, 17, 4174-4182.	2.6	33
17	Immunological and biochemical characterizations of coxsackievirus A6 and A10 viral particles. <i>Antiviral Research</i> , 2016, 129, 58-66.	4.1	33
18	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

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19	Involvement of gelsolin in TGF-beta 1 induced epithelial to mesenchymal transition in breast cancer cells. <i>Journal of Biomedical Science</i> , 2015, 22, 90.	7.0	29
20	The anticancer properties of iron core&ndash;gold shell nanoparticles in colorectal cancer cells. <i>International Journal of Nanomedicine</i> , 2013, 8, 3321.	6.7	25
21	2-Deoxy-d-Glucose Can Complement Doxorubicin and Sorafenib to Suppress the Growth of Papillary Thyroid Carcinoma Cells. <i>PLoS ONE</i> , 2015, 10, e0130959.	2.5	19
22	Magnetic field distribution modulation of intrathecal delivered ketorolac iron-oxide nanoparticle conjugates produce excellent analgesia for chronic inflammatory pain. <i>Journal of Nanobiotechnology</i> , 2018, 16, 49.	9.1	18
23	A bead-based fluorescence immunosensing technique enabled by the integration of FÄrster resonance energy transfer and optoelectrokinetic concentration. <i>Biomicrofluidics</i> , 2016, 10, 014113.	2.4	17
24	The analgesia efficiency of ultrasmall magnetic iron oxide nanoparticles in mice chronic inflammatory pain model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1975-1981.	3.3	17
25	Dental cement's biological and mechanical properties improved by ZnO nanospheres. <i>Materials Science and Engineering C</i> , 2019, 97, 116-123.	7.3	17
26	Octahedron Iron Oxide Nanocrystals Prohibited Clostridium difficile Spore Germination and Attenuated Local and Systemic Inflammation. <i>Scientific Reports</i> , 2017, 7, 8124.	3.3	16
27	Nanomaterial-mediated photothermal cancer treatment: the pivotal role of cellular uptake on photothermal therapeutic efficacy. <i>RSC Advances</i> , 2014, 4, 53297-53306.	3.6	15
28	Vancomycin-Loaded Nanoparticles Enhance Sporicidal and Antibacterial Efficacy for Clostridium difficile Infection. <i>Frontiers in Microbiology</i> , 2019, 10, 1141.	3.5	15
29	Characterization of Iron Core&quot;Gold Shell Nanoparticles for Anti-Cancer Treatments: Chemical and Structural Transformations During Storage and Use. <i>Materials</i> , 2018, 11, 2572.	2.9	14
30	Dietary adaptations in the ultrastructure of dinosaur dentine. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160626.	3.4	12
31	Silver-coated zero-valent iron nanoparticles enhance cancer therapy in mice through lysosome-dependent dual programmed cell death pathways: triggering simultaneous apoptosis and autophagy only in cancerous cells. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4122-4131.	5.8	12
32	Enhancing enterovirus A71 vaccine production yield by microcarrier perfusion bioreactor culture. <i>Vaccine</i> , 2018, 36, 3134-3139.	3.8	11
33	Iron Release Profile of Silica-Modified Zero-Valent Iron NPs and Their Implication in Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4336.	4.1	11
34	Targeted Delivery of Curcumin Rescues Endoplasmic Reticulum&quot;Retained Mutant NOX2 Protein and Avoids Leukocyte Apoptosis. <i>Journal of Immunology</i> , 2019, 202, 3394-3403.	0.8	11
35	Three-dimensional microfluidic chip for the extraction of mitochondrial DNA. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 489-498.	2.2	10
36	Circulating Plasma Gelsolin: A Predictor of Favorable Clinical Outcomes in Head and Neck Cancer and Sensitive Biomarker for Early Disease Diagnosis Combined with Soluble Fas Ligand. <i>Cancers</i> , 2020, 12, 1569.	3.7	10

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37	Advances in Noninvasive Functional Imaging of Bone. Academic Radiology, 2014, 21, 281-301.	2.5	5
38	Opportunities for Nanomedicine in Clostridioides difficile Infection. Antibiotics, 2021, 10, 948.	3.7	4
39	From Microenvironment Remediation to Novel Anti-Cancer Strategy: The Emergence of Zero Valent Iron Nanoparticles. Pharmaceutics, 2022, 14, 99.	4.5	3
40	Nanoshell Magnetic Resonance Imaging Contrast Agents. , 2007, , .		2
41	The Pathophysiologic Role of Gelsolin in Chronic Kidney Disease: Focus on Podocytes. International Journal of Molecular Sciences, 2021, 22, 13281.	4.1	2
42	A microfluidic-based cell culture platform for cellular and subcellular imaging. , 2009, , .		1
43	Fluorescence Signal-to-Noise Ratio Enhanced by Off-Plane Excitation for Quantitative PCR Device. , 2020, , .		1
44	Carcinoembryonic cell adhesion molecule 6 as a therapeutic target for breast cancer (1048.2). FASEB Journal, 2014, 28, 1048.2.	0.5	1
45	Molecular imaging of cancer cells using plasmon-resonant-enhanced third-harmonic-generation microscopy with silver nanoparticles. , 2005, , .		0
46	Ex vivo and in vivo oral cancer diagnosis using backward-collected third harmonic generation biopsy. , 2006, , .		0
47	Spectral evidence on the plasmon-resonant enhanced third-harmonic $\times 10^3$ of Ag nanoparticles. , 2006, , .		0
48	Combined Multi-Target Molecular Ultrasonography and Photothermal Therapy Using Cancer Targeting Gold Nano Rod Probes. , 2008, , .		0
49	Photoactive Compound-Triplex-Forming Oligonucleotide Linked Gold Nanoparticle as an Artificial Gene Specific DNA Cleaver Assembly. , 2008, , .		0
50	Oxidized LDL as an Effective Anti-Cancer Bio Nanoparticle. , 2008, , .		0
51	An Iron Oxide Nanoparticle Drug Carrier for Improved Cancer Chemotherapy in Drug Resistance Line. , 2008, , .		0
52	A new microfluid system for mitochondrial DNA extraction and analysis. , 2011, , .		0
53	Improved therapeutic efficacy via magnetite nanoconjugates derived synchronization of hyperthermochemotherapy. , 2012, , .		0
54	Introduction to the Special Issue. Academic Radiology, 2014, 21, 137-138.	2.5	0

#	ARTICLE	IF	CITATIONS
55	Development of Non-contact Composite Temperature Sensing (CTS) for photothermal Real-time quantitative PCR Device. , 2020, , .		0
56	The highest fluorescence signal-to-noise ratio is achieved by optimizing the light acquisition direction and tube diameter of the QPCR system. , 2020, , .		0
57	A Study on Enhanced Fluorescence Signal-to-noise by using the Stray Light Shutter for Quantitative PCR Chip. , 2021, , .		0