Wing-Fu Lai

List of Publications by Citations

113 papers	1,870 citations	23 h-index	39 g-index
118 ext. papers	2,622 ext. citations	7.1 avg, IF	6.37 L-index

#	Paper	IF	Citations
113	Nucleic acid delivery with chitosan and its derivatives. *Journal of Controlled Release*, **2009**, 134, 158-68	11.7	194
112	Cyclodextrins in non-viral gene delivery. *Biomaterials*, **2014**, 35, 401-11	15.6	104
111	Design of Polymeric Gene Carriers for Effective Intracellular Delivery. *Trends in Biotechnology*, **2018**, 36, 713-728	15.1	76
110	Chemistry and engineering of cyclodextrins for molecular imaging. *Chemical Society Reviews*, **2017**, 46, 6379-6419	58.5	71
109	Hypromellose-graft-chitosan and Its Polyelectrolyte Complex as Novel Systems for Sustained Drug Delivery. *ACS Applied Materials & Interfaces*, **2015**, 7, 10501-10	9.5	70
108	In vivo nucleic acid delivery with PEI and its derivatives: current status and perspectives. *Expert Review of Medical Devices*, **2011**, 8, 173-85	3.5	65
107	Design and fabrication of hydrogel-based nanoparticulate systems for in vivo drug delivery. *Journal of Controlled Release*, **2016**, 243, 269-282	11.7	63
106	Hydrogel-Based Materials for Delivery of Herbal Medicines. *ACS Applied Materials & Interfaces*, **2017**, 9, 11309-11320	9.5	60
105	Multicompartment Microgel Beads for Co-Delivery of Multiple Drugs at Individual Release Rates. *ACS Applied Materials & Interfaces*, **2016**, 8, 871-80	9.5	58
104	A stimuli-responsive nanoparticulate system using poly(ethylenimine)-graft-polysorbate for controlled protein release. *Nanoscale*, **2016**, 8, 517-28	7.7	47
103	In Situ Fabrication of Flexible, Thermally Stable, Large-Area, Strongly Luminescent Copper Nanocluster/Polymer Composite Films. *Chemistry of Materials*, **2017**, 29, 10206-10211	9.6	43
102	Development of Copper Nanoclusters for In Vitro and In Vivo Theranostic Applications. *Advanced Materials*, **2020**, 32, e1906872	24	41
101	Water-Soluble Biocompatible Copolymer Hypromellose Grafted Chitosan Able to Load Exogenous Agents and Copper Nanoclusters with Aggregation-Induced Emission. *Advanced Functional Materials*, **2018**, 28, 1802848	15.6	38
100	Alginate-based complex fibers with the Janus morphology for controlled release of co-delivered drugs. *Asian Journal of Pharmaceutical Sciences*, **2021**, 16, 77-85	9	38
99	Revisiting the melamine contamination event in China: implications for ethics in food technology. *Trends in Food Science and Technology*, **2009**, 20, 366-373	15.3	31
98	Molecular design of upconversion nanoparticles for gene delivery. *Chemical Science*, **2017**, 8, 7339-7358	9.4	30
97	Non-conjugated polymers with intrinsic luminescence for drug delivery. *Journal of Drug Delivery Science and Technology*, **2020**, 59, 101916	4.5	29

96	Use of graphene-based materials as carriers of bioactive agents. *Asian Journal of Pharmaceutical Sciences*, **2021**, 16, 577-588	9	28
95	Evolving marine biomimetics for regenerative dentistry. *Marine Drugs*, **2014**, 12, 2877-912	6	27
94	Biochemistry and use of soybean isoflavones in functional food development. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 2098-2112	11.5	25
93	Preparation and characterization of 2-hydroxyethyl starch microparticles for co-delivery of multiple bioactive agents. *Drug Delivery*, **2021**, 28, 1562-1568	7	24
92	Nucleic acid delivery: roles in biogerontological interventions. *Ageing Research Reviews*, **2013**, 12, 310-5	12	23
91	Electrospray-mediated preparation of compositionally homogeneous core–shell hydrogel microspheres for sustained drug release. *RSC Advances*, **2017**, 7, 44482-44491	3.7	23
90	A FRET biosensor based on MnO2 nanosphere/copper nanocluster complex: From photoluminescence quenching to recovery and magnification. *Sensors and Actuators B: Chemical*, **2019**, 290, 535-543	8.5	22
89	Nucleic acid therapy for lifespan prolongation: present and future. *Journal of Biosciences*, **2011**, 36, 725-9	2.3	21
88	Cyclodextrin-PEI-Tat Polymer as a Vector for Plasmid DNA Delivery to Placenta Mesenchymal Stem Cells. *BioNanoScience*, **2011**, 1, 89-96	3.4	21
87	Folate-conjugated chitosan-poly(ethylenimine) copolymer as an efficient and safe vector for gene delivery in cancer cells. *Current Gene Therapy*, **2015**, 15, 472-80	4.3	21
86	Tackling COVID-19 Using Remdesivir and Favipiravir as Therapeutic Options. *ChemBioChem*, **2021**, 22, 939-948	3.8	21
85	A biocompatible and easy-to-make polyelectrolyte dressing with tunable drug delivery properties for wound care. *International Journal of Pharmaceutics*, **2019**, 566, 101-110	6.5	20
84	How to overcome the side effects of tumor immunotherapy. *Biomedicine and Pharmacotherapy*, **2020**, 130, 110639	7.5	19
83	Roles of the actin cytoskeleton in aging and age-associated diseases. *Ageing Research Reviews*, **2020**, 58, 101021	12	19
82	A MXene of type TiCT functionalized with copper nanoclusters for the fluorometric determination of glutathione. *Mikrochimica Acta*, **2019**, 187, 38	5.8	19
81	Ionically Crosslinked Complex Gels Loaded with Oleic Acid-Containing Vesicles for Transdermal Drug Delivery. *Pharmaceutics*, **2020**, 12,	6.4	19
80	A copper nanocluster incorporated nanogel: Confinement-assisted emission enhancement for zinc ion detection in living cells. *Sensors and Actuators B: Chemical*, **2020**, 307, 127626	8.5	18
79	MicroRNAs as regulators of cutaneous wound healing. *Journal of Biosciences*, **2014**, 39, 519-24	2.3	17

78	Cancer neoantigen: Boosting immunotherapy. *Biomedicine and Pharmacotherapy*, **2020**, 131, 110640	7.5	17
77	Property-Tuneable Microgels Fabricated by Using Flow-Focusing Microfluidic Geometry for Bioactive Agent Delivery. *Pharmaceutics*, **2021**, 13,	6.4	17
76	Linear poly(ethylenimine) cross-linked by methyl-β-cyclodextrin for gene delivery. *Current Gene Therapy*, **2014**, 14, 258-68	4.3	16
75	Chemotherapeutic Drugs Interfere with Gene Delivery Mediated by Chitosan-Graft-Poly(ethylenimine). *PLoS ONE*, **2015**, 10, e0126367	3.7	15
74	ROS-Generating Amine-Functionalized Magnetic Nanoparticles Coupled with Carboxymethyl Chitosan for pH-Responsive Release of Doxorubicin.. *International Journal of Nanomedicine*, **2022**, 17, 589-601	7.3	15
73	Development of Hydrogels with Self-Healing Properties for Delivery of Bioactive Agents. *Molecular Pharmaceutics*, **2021**, 18, 1833-1841	5.6	15
72	A self-indicating cellulose-based gel with tunable performance for bioactive agent delivery. *Journal of Drug Delivery Science and Technology*, **2021**, 63, 102428	4.5	15
71	Tackling Aging by Using miRNA as a Target and a Tool. *Trends in Molecular Medicine*, **2019**, 25, 673-684	11.5	14
70	Requirement of Runx3 in pulmonary vasculogenesis. *Cell and Tissue Research*, **2014**, 356, 445-9	4.2	14
69	Molecular and engineering approaches to regenerate and repair teeth in mammals. *Cellular and Molecular Life Sciences*, **2014**, 71, 1691-701	10.3	14
68	Molecular Design of Layer-by-Layer Functionalized Liposomes for Oral Drug Delivery. *ACS Applied Materials & Interfaces*, **2020**, 12, 43341-43351	9.5	14
67	Synthetic NRG-1 functionalized DNA nanospindels towards HER2/neu targets for in vitro anti-cancer activity assessment against breast cancer MCF-7 cells. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 182, 113133	3.5	13
66	One-pot synthesis of an emulsion-templated hydrogel-microsphere composite with tunable properties. *Composites Part A: Applied Science and Manufacturing*, **2018**, 113, 318-329	8.4	13
65	Microfluidic methods for non-viral gene delivery. *Current Gene Therapy*, **2015**, 15, 55-63	4.3	13
64	Hydroxypropyl-β-cyclodextrin for Delivery of Baicalin via Inclusion Complexation by Supercritical Fluid Encapsulation. *Molecules*, **2018**, 23,	4.8	12
63	Cell transfection with a β-cyclodextrin-PEI-propane-1,2,3-triol nanopolymer. *PLoS ONE*, **2014**, 9, e100258	3.7	12
62	A gel-forming clusteroluminogenic polymer with tunable emission behavior as a sustained-release carrier enabling real-time tracking during bioactive agent delivery. *Applied Materials Today*, **2020**, 21, 100876	6.6	12
61	Synthesis of Ligand Functionalized ErbB-3 Targeted Novel DNA Nano-Threads Loaded with the Low Dose of Doxorubicin for Efficient In Vitro Evaluation of the Resistant Anti-Cancer Activity. *Pharmaceutical Research*, **2020**, 37, 75	4.5	11

60	Progress and trends in the development of therapies for Hutchinson-Gilford progeria syndrome. *Aging Cell*, **2020**, 19, e13175	9.9	11
59	Copper-Nanocluster-Based Transparent Ultraviolet-Shielding Polymer Films. *ChemNanoMat*, **2019**, 5, 110-115	3.5	11
58	Beyond sole longevity: a social perspective on healthspan extension. *Rejuvenation Research*, **2011**, 14, 83-8	2.6	10
57	Multi-Component Hydrogel Beads Incorporated with Reduced Graphene Oxide for pH-Responsive and Controlled Co-Delivery of Multiple Agents. *Pharmaceutics*, **2021**, 13,	6.4	10
56	Multilayered composite-coated ionically crosslinked food-grade hydrogel beads generated from algal alginate for controlled and sustained release of bioactive compounds.. *RSC Advances*, **2020**, 10, 44522-44532	3.7	9
55	Students Perception and Expectation towards Pharmacy Education: A Qualitative Study of Pharmacy Students in a Developing Country. *Indian Journal of Pharmaceutical Education and Research*, **2021**, 55, 63-69	1.7	9
54	Preparation and use of nanogels as carriers of drugs. *Drug Delivery*, **2021**, 28, 1594-1602	7	9
53	Inference of gene-phenotype associations via protein-protein interaction and orthology. *PLoS ONE*, **2013**, 8, e77478	3.7	8
52	Design of Polymeric Films for Antioxidant Active Food Packaging.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	8
51	Delivery of Therapeutics: Current Status and Its Relevance to Regenerative Innovations. *Recent Patents on Nanomedicine*, **2011**, 1, 7-18		7
50	DNA nanotechnology as a tool to develop molecular tension probes for bio-sensing and bio-imaging applications: An up-to-date review. *Nano Structures Nano Objects*, **2020**, 23, 100523	5.6	7
49	Antibacterial and clusteroluminogenic hypromellose-graft-chitosan-based polyelectrolyte complex films with high functional flexibility for food packaging. *Carbohydrate Polymers*, **2021**, 271, 118447	10.3	7
48	Protein kinases as targets for interventive biogerontology: overview and perspectives. *Experimental Gerontology*, **2012**, 47, 290-4	4.5	6
47	A Bioinspired, Sustained-Release Material in Response to Internal Signals for Biphasic Chemical Sensing in Wound Therapy. *Advanced Healthcare Materials*, **2021**, 10, e2001267	10.1	6
46	Epigallocatechin-3-gallate in functional food development: From concept to reality. *Trends in Food Science and Technology*, **2020**, 102, 271-279	15.3	5
45	Targeting folate receptors (ꢀ) to internalize the bleomycin loaded DNA-nanotubes into prostate cancer xenograft CWR22R cells. *Journal of Molecular Liquids*, **2020**, 316, 113785	6	5
44	The integrin facilitated internalization of fibronectin-functionalized camptothecin-loaded DNA-nanofibers for high-efficiency anticancer effects. *Drug Delivery and Translational Research*, **2020**, 10, 1381-1392	6.2	5
43	Non-aromatic clusteroluminogenic polymers: structural design and applications in bioactive agent delivery. *Materials Today Chemistry*, **2022**, 23, 100712	6.2	4

42	UV-Shielding and Clusteroluminogenic Cellulose-Based Films with Tuneable Wettability and Permeability for Dually Self-Indicating Food Packaging. *Advanced Materials Technologies*, **2021**, 6, 2100120	6.8	4
41	Edible Clusteroluminogenic Films Obtained from Starch of Different Botanical Origins for Food Packaging and Quality Management of Frozen Foods.. *Membranes*, **2022**, 12,	3.8	4
40	Advanced functional polymers for regenerative and therapeutic dentistry. *Oral Diseases*, **2015**, 21, 550-7	3.5	3
39	Chemical Derivatization of Chitosan for Plasmid DNA Delivery **2010**, 69-79		3
38	Development of a composite film fabricated from carboxymethyl chitosan and magnetite nanoparticles for pH-responsive bioactive agent release. *Biointerphases*, **2021**, 16, 021006	1.8	3
37	Design and optimization of quercetin-based functional foods. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-17	11.5	3
36	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. *Scientific Reports*, **2019**, 9, 15080	4.9	2
35	Study on Modification of Polymer Properties by the Cold Drawing Process. *Soft*, **2015**, 04, 1-7		2
34	Self-healing properties of hydrogels based on natural polymers **2020**, 223-245		2
33	A Phytochemical-Based Copolymer Derived from Polysaccharopeptides for Gene Delivery. *Molecules*, **2018**, 23,	4.8	2
32	Treating cutaneous aging with patented technologies. *Journal of Biosciences*, **2015**, 40, 209-16	2.3	1
31	Chitosan-PEI graft copolymers for pDNA delivery: fabrication and in vitro properties **2010**,		1
30	Slimming company websites in Hong Kong: implications for women's health. *Health Care for Women International*, **2011**, 32, 632-47	1.5	1
29	News coverage of drug development: implications for the conveyance of health information. *BMC Public Health*, **2021**, 21, 1799	4.1	1
28	Dietary phytochemicals that influence gut microbiota: Roles and actions as anti-Alzheimer agents. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-27	11.5	1
27	Development and Characterization of Montmorillonite-Based Hybrid Materials for pH-Responsive Drug Delivery. *ChemistrySelect*, **2021**, 6, 1466-1470	1.8	1
26	Design and Practical Considerations for Active Polymeric Films in Food Packaging. *International Journal of Molecular Sciences*, **2022**, 23, 6295	6.3	1
25	Preparation, Characterization and Dielectric Properties of Alginate-Based Composite Films Containing Lithium Silver Oxide Nanoparticles.. *Frontiers in Chemistry*, **2021**, 9, 777079	5	0

24	Nanoparticulate Systems for Bioactive Agent Delivery: What Is the Missing Link in Research for Real Applications?. *Advanced NanoBiomed Research*, **2021**, 1, 2000099	0	0
23	Advances in analysis of pharmaceuticals by using graphene-based sensors. *ChemMedChem*,	3.7	0
22	Use of delivery technologies to mediate herbal interventions **2019**, 141-150		
21	Theoretical frameworks for intervention development **2019**, 3-11		
20	Available delivery technologies for intervention execution **2019**, 13-22		
19	Design of viral vectors for genetic manipulation **2019**, 25-36		
18	Design of upconversion nanoparticles for intervention execution **2019**, 61-72		
17	Technical barriers to systemic interventions **2019**, 161-168		
16	Social barriers to intervention success **2019**, 175-180		
15	Design of hydrogel-based nanoparticles for intervention execution **2019**, 73-84		
14	Design of polymeric vectors for genetic manipulation **2019**, 37-48		
13	Design of cyclodextrin-based systems for intervention execution **2019**, 49-59		
12	Use of delivery technologies to mediate RNA degradation **2019**, 87-97		
11	Use of delivery technologies to manipulate mitochondrial metabolism **2019**, 119-129		
10	Use of delivery technologies to modulate protein kinase activity **2019**, 109-117		
9	Use of delivery technologies to mediate tissue regeneration and repair **2019**, 131-139		
8	Biological barriers to cellular interventions **2019**, 153-160		
7	Ethical barriers to intervention development **2019**, 169-174		

6	The economy's impact on older people's health. *Nursing Outlook*, **2009**, 57, 183	2.7
5	Use of delivery technologies to manipulate miRNA expression **2019**, 99-108	
4	Layer-by-Layer Functionalization for Oral Liposomal Formulations in Anti-aging Medicine. *Healthy Ageing and Longevity*, **2020**, 393-409	0.5
3	Blood Interactions with Nanoparticles During Systemic Delivery. *Healthy Ageing and Longevity*, **2020**, 477-493	0.5
2	Systemic Delivery in Anti-aging Medicine: An Overview. *Healthy Ageing and Longevity*, **2020**, 3-37	0.5
1	Delivery of Mesenchymal Stem Cells for Tackling Systemic Disorders. *Current Stem Cell Research and Therapy*, **2021**, 16, 640-646	3.6