Yan Lee

List of Publications by Year
in descending order

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95 papers	4,211 citations	117453 34 h-index	114278 63 g-index
101 all docs	101 docs citations	101 times ranked	5384 citing authors

#	Article	IF	Citations
1	De novogeneration of a bright blue fluorophore from 2-oxoglutarate in biological samples. Chemical Science, 2022, 13, 365-372.	3.7	1
2	Alleviation of Surgery-Induced Osteitis in Sinonasal Cavity by Dexamethasone-Loaded Poly(lactic-co-glycolic acid) (PLGA) Microparticles with Strong Calcium-Binding Affinity. Pharmaceutics, 2022, 14, 546.	2.0	2
3	Structure-based inhibitor design for reshaping bacterial morphology. Communications Biology, 2022, 5, 395.	2.0	1
4	pH-Activatable cell penetrating peptide dimers for potent delivery of anticancer drug to triple-negative breast cancer. Journal of Controlled Release, 2021, 330, 898-906.	4.8	36
5	Development of poly(D,L-lactic-co-glycolic acid) films coated with biomembrane-mimicking polymers for anti-adhesion activity. Materials Science and Engineering C, 2021, 120, 111780.	3.8	8
6	Highly Efficient Photothermal Therapy with Cell-Penetrating Peptide-Modified Bumpy Au Triangular Nanoprisms using Low Laser Power and Low Probe Dose. Nano Letters, 2021, 21, 731-739.	4.5	34
7	Intracellular delivery of immunoglobulin G at nanomolar concentrations with domain Z-fused multimeric Î±-helical cell penetrating peptides. Journal of Controlled Release, 2021, 330, 161-172.	4.8	11
8	One-bead-one-compound screening approach to the identification of cyclic peptoid inhibitors of cyclophilin D as neuroprotective agents from mitochondrial dysfunction. Chemical Communications, 2021, 57, 2388-2391.	2.2	5
9	Dimeric Î±-Helical Cell Penetrating Peptide Mounted with HER2-Selective Affibody. Biomaterials Science, 2021, 9, 7826-7831.	2.6	3
10	Challenge to overcome current limitations of cell-penetrating peptides. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140604.	1.1	69
11	Expansion Microscopy with a Thermally Adjustable Expansion Factor Using Thermoresponsive Biospecimenâ€“Hydrogel Hybrids. ACS Applied Materials & Interfaces, 2021, 13, 28962-28974.	4.0	3
12	Dynamics and Entropy of Cyclohexane Rings Control pH-Responsive Reactivity. Jacs Au, 2021, 1, 2070-2079.	3.6	3
13	Nucleophilic Substitution at the Guanidine Carbon Center via Guanidine Cyclic Diimide Activation. Organic Letters, 2021, 23, 9163-9167.	2.4	1
14	Augmented osteogenesis of mesenchymal stem cells using a fragmented Runx2 mixed with cell-penetrating, dimeric a-helical peptide. European Journal of Pharmaceutical Sciences, 2020, 144, 105210.	1.9	7
15	De novoformation of citrate-based fluorophores on N-termini of peptides and proteins in cells and tissues. Chemical Communications, 2020, 56, 74-77.	2.2	6
16	Î±-Helical cell-penetrating peptide-mediated nasal delivery of resveratrol for inhibition of epithelial-to-mesenchymal transition. Journal of Controlled Release, 2020, 317, 181-194.	4.8	35
17	Reversible Protein Conjugation on Live Cell Surfaces by Specific Recognition between Coiled-Coil Motifs of Natural Amino Acid Sequences. Biomacromolecules, 2020, 21, 3539-3546.	2.6	1
18	Proline Hinged Amphipathic Î±-Helical Peptide Sensitizes Gram-Negative Bacteria to Various Gram-Positive Antibiotics. Journal of Medicinal Chemistry, 2020, 63, 14937-14950.	2.9	27

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19	Helicity Control of Polymeric Backbones with Alternating cis â€•trans Double Bonds in Cyclopolymerized Dipropargyl Amides. Angewandte Chemie - International Edition, 2020, 59, 22968-22972.	7.2	3
20	Helicity Control of Polymeric Backbones with Alternating cis â€•trans Double Bonds in Cyclopolymerized Dipropargyl Amides. Angewandte Chemie, 2020, 132, 23168-23172.	1.6	2
21	Covalently Grafted 2-Methacryloyloxyethyl Phosphorylcholine Networks Inhibit Fibrous Capsule Formation around Silicone Breast Implants in a Porcine Model. ACS Applied Materials & Interfaces, 2020, 12, 30198-30212.	4.0	15
22	Efficient reduction of fibrous capsule formation around silicone breast implants densely grafted with 2-methacryloyloxyethyl phosphorylcholine (MPC) polymers by heat-induced polymerization. Biomaterials Science, 2020, 8, 1580-1591.	2.6	18
23	Synthesis of poly(disulfide)s with narrow molecular weight distributions via lactone ring-opening polymerization. Chemical Science, 2020, 11, 4882-4886.	3.7	19
24	Antibiotic Delivery: In Vitro and In Vivo Antimicrobial Activity of Antibioticâ€Conjugated Carriers with Rapid pHâ€Responsive Release Kinetics (Adv. Healthcare Mater. 14/2019). Advanced Healthcare Materials, 2019, 8, 1970058.	3.9	1
25	Guanidine cyclic diimides and their polymers. Chemical Communications, 2019, 55, 10222-10225.	2.2	5
26	Scalable and Isotropic Expansion of Tissues with Simply Tunable Expansion Ratio. Advanced Science, 2019, 6, 1901673.	5.6	46
27	In Vitro and In Vivo Antimicrobial Activity of Antibioticâ€Conjugated Carriers with Rapid pHâ€Responsive Release Kinetics. Advanced Healthcare Materials, 2019, 8, e1900247.	3.9	4
28	Calcium-Binding Polymer-Coated Poly(lactide-co-glycolide) Microparticles for Sustained Release of Quorum Sensing Inhibitors to Prevent Biofilm Formation on Hydroxyapatite Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 7686-7694.	4.0	22
29	Construction of histidine-containing hydrocarbon stapled cell penetrating peptides for in vitro and in vivo delivery of siRNAs. Chemical Science, 2018, 9, 3820-3827.	3.7	34
30	Electrodeless Reverse Electrodialysis Patches as an Ionic Power Source for Active Transdermal Drug Delivery. Advanced Functional Materials, 2018, 28, 1705952.	7.8	14
31	Systematic structure control of ammonium iodide salts as feasible UCST-type forward osmosis draw solutes for the treatment of wastewater. Journal of Materials Chemistry A, 2018, 6, 1255-1265.	5.2	19
32	Surface zwitterionization: Effective method for preventing oral bacterial biofilm formation on hydroxyapatite surfaces. Applied Surface Science, 2018, 427, 517-524.	3.1	17
33	Drug Delivery: Electrodeless Reverse Electrodialysis Patches as an Ionic Power Source for Active Transdermal Drug Delivery (Adv. Funct. Mater. 15/2018). Advanced Functional Materials, 2018, 28, 1870100.	7.8	0
34	Photoswitching of Cell Penetration of Amphipathic Peptides by Control of Î±-Helical Conformation. Biomacromolecules, 2018, 19, 2863-2869.	2.6	30
35	Multimeric Amphipathic Î±â€Helical Sequences for Rapid and Efficient Intracellular Protein Transport at Nanomolar Concentrations. Advanced Science, 2018, 5, 1800240.	5.6	16
36	Chemoselective Tyrosine Bioconjugation through Sulfate Click Reaction. Chemistry - A European Journal, 2018, 24, 10948-10952.	1.7	34

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37	Frontispiece: Chemoselective Tyrosine Bioconjugation through Sulfate Click Reaction. Chemistry - A European Journal, 2018, 24, .	1.7	0
38	Ring Opening Metathesis Polymerization of Bicyclic Î±,Î²â€Unsaturated Anhydrides for Readyâ€toâ€beâ€grafted Polymers Having Tailored pHâ€Responsive Degradability. Angewandte Chemie - International Edition, 2018, 57, 12468-12472.	7.2	9
39	Ring Opening Metathesis Polymerization of Bicyclic Î±,Î²â€Unsaturated Anhydrides for Readyâ€toâ€beâ€grafted Polymers Having Tailored pHâ€Responsive Degradability. Angewandte Chemie, 2018, 130, 12648-12652.	1.6	0
40	Oligomer Formation Propensities of Dimeric Bundle Peptides Correlate with Cell Penetration Abilities. ACS Central Science, 2018, 4, 885-893.	5.3	16
41	Amine-selective affinity resins based on pH-sensitive reversible formation of covalent bonds. Soft Matter, 2017, 13, 2295-2298.	1.2	1
42	Anti-inflammatory and Antibacterial Effects of Covalently Attached Biomembrane-Mimic Polymer Grafts on Gore-Tex Implants. ACS Applied Materials & Interfaces, 2017, 9, 19161-19175.	4.0	42
43	Liquid crystal nanoparticle formulation as an oral drug delivery system for liver-specific distribution. International Journal of Nanomedicine, 2016, 11, 853.	3.3	20
44	Development of anti-biofouling interface on hydroxyapatite surface by coating zwitterionic MPC polymer containing calcium-binding moieties to prevent oral bacterial adhesion. Acta Biomaterialia, 2016, 40, 70-77.	4.1	64
45	Nonhemolytic Cell-Penetrating Peptides: Site Specific Introduction of Glutamine and Lysine Residues into the Î±-Helical Peptide Causes Deletion of Its Direct Membrane Disrupting Ability but Retention of Its Cell Penetrating Ability. Biomacromolecules, 2016, 17, 3007-3015.	2.6	24
46	Light-tunable thermoresponsive behavior of branched polyethylenimine derivatives in water. Polymer, 2016, 107, 37-43.	1.8	6
47	Membrane of Functionalized Reduced Graphene Oxide Nanoplates with Angstrom-Level Channels. Scientific Reports, 2016, 6, 28052.	1.6	18
48	Enzyme-responsive destabilization of stabilized plasmid-lipid nanoparticles as an efficient gene delivery. European Journal of Pharmaceutical Sciences, 2016, 91, 20-30.	1.9	22
49	Control of osmotic pressure through CO₂-capture and release facilitated by the lower critical solution temperature (LCST) phase transition of acylated branched polyethylenimine. RSC Advances, 2016, 6, 26526-26530.	1.7	4
50	Upper critical solution temperature (UCST) phase transition of halide salts of branched polyethylenimine and methylated branched polyethylenimine in aqueous solutions. Chemical Communications, 2016, 52, 509-512.	2.2	28
51	A medusa-like Î²-cyclodextrin with 1-methyl-2-(2â€²-carboxyethyl) maleic anhydrides, a potential carrier for pH-sensitive drug delivery. Journal of Drug Targeting, 2014, 22, 658-668.	2.1	10
52	Lower critical solution temperature (LCST) phase separation of glycol ethers for forward osmotic control. Physical Chemistry Chemical Physics, 2014, 16, 5319-5325.	1.3	44
53	Cellâ€Penetrating, Dimeric Î±â€Helical Peptides: Nanomolar Inhibitors of HIVâ€1 Transcription. Angewandte Chemie, 2014, 126, 10250-10253.	1.6	11
54	Synthesis of biomembrane-mimic polymers with various phospholipid head groups. Polymer, 2014, 55, 517-524.	1.8	14

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55	Unlocking the pHâ€Responsive Degradability of Fumaramic Acid Derivatives Using Photoisomerization. Chemistry - A European Journal, 2014, 20, 15715-15718.	1.7	4
56	Alleviation of capsular formations on silicone implants in rats using biomembrane-mimicking coatings. Acta Biomaterialia, 2014, 10, 4217-4225.	4.1	37
57	Apoptosis Inducing, Conformationally Constrained, Dimeric Peptide Analogs of KLA with Submicromolar Cell Penetrating Abilities. Biomacromolecules, 2014, 15, 3746-3752.	2.6	46
58	Cellâ€Penetrating, Dimeric Î±â€Helical Peptides: Nanomolar Inhibitors of HIVâ€1 Transcription. Angewandte Chemie - International Edition, 2014, 53, 10086-10089.	7.2	47
59	Comparison of pH-sensitive degradability of maleic acid amide derivatives. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2364-2367.	1.0	44
60	Circulatory osmotic desalination driven by a mild temperature gradient based on lower critical solution temperature (LCST) phase transition materials. Physical Chemistry Chemical Physics, 2013, 15, 19510.	1.3	25
61	Introduction of pH-sensitive upper critical solution temperature (UCST) properties into branched polyethylenimine. Polymer, 2013, 54, 5338-5344.	1.8	15
62	Preparation of non-aggregated fluorescent nanodiamonds (FNDs) by non-covalent coating with a block copolymer and proteins for enhancement of intracellular uptake. Molecular BioSystems, 2013, 9, 1004.	2.9	46
63	Nonviral gene therapy in vivo with PAM-RG4/apoptin as a potential brain tumor therapeutic. International Journal of Nanomedicine, 2013, 8, 821.	3.3	21
64	Stimulation of Phospholipase D in HepG2 Cells After Transfection Using Cationic Liposomes. Bulletin of the Korean Chemical Society, 2013, 34, 931-935.	1.0	0
65	Formation of polyion complex micelles with tunable isoelectric points based on zwitterionic block copolymers. Macromolecular Research, 2012, 20, 1249-1256.	1.0	3
66	Novel lower critical solution temperature phase transition materials effectively control osmosis by mild temperature changes. Chemical Communications, 2012, 48, 3845.	2.2	58
67	Preparation of pH-sensitive CaP nanoparticles coated with a phosphate-based block copolymer for efficient gene delivery. Polymer, 2012, 53, 4678-4685.	1.8	17
68	Effective healing of diabetic skin wounds by using nonviral gene therapy based on minicircle vascular endothelial growth factor DNA and a cationic dendrimer. Journal of Gene Medicine, 2012, 14, 272-278.	1.4	75
69	Synthesis, Characterization and Application of Dendritic Lipids for Gene Delivery. Bulletin of the Korean Chemical Society, 2012, 33, 1353-1356.	1.0	2
70	Delivery of Nucleic Acid Drugs. Advances in Polymer Science, 2011, , 95-134.	0.4	27
71	Enhanced endosomal escape of siRNA-incorporating hybrid nanoparticles from calcium phosphate and PEG-block charge-conversional polymer for efficient gene knockdown with negligible cytotoxicity. Biomaterials, 2011, 32, 3106-3114.	5.7	157
72	Effect of hydrophilic polymer conjugation on heat-induced conformational changes in a protein. Acta Biomaterialia, 2011, 7, 1477-1484.	4.1	17

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73	PAMAM dendrimer with a 1,2-diaminoethane surface facilitates endosomal escape for enhanced pDNA delivery. Polymer, 2011, 52, 339-346.	1.8	40
74	Thermosensitivity control of polyethlyenimine by simple acylation. Polymer, 2011, 52, 1367-1374.	1.8	18
75	Enhanced transfection with silica-coated polyplexes loading plasmid DNA. Biomaterials, 2010, 31, 4764-4770.	5.7	29
76	Introduction of stearoyl moieties into a biocompatible cationic polyaspartamide derivative, PAsp(DET), with endosomal escaping function for enhanced siRNA-mediated gene knockdown. Journal of Controlled Release, 2010, 145, 141-148.	4.8	114
77	Efficient Delivery of Bioactive Antibodies into the Cytoplasm of Living Cells by Chargeâ€Conversional Polyion Complex Micelles. Angewandte Chemie - International Edition, 2010, 49, 2552-2555.	7.2	182
78	pDNA/poly(<scp>L</scp>â€lysine) Polyplexes Functionalized with a pHâ€Sensitive Chargeâ€Conversional Poly(aspartamide) Derivative for Controlled Gene Delivery to Human Umbilical Vein Endothelial Cells. Macromolecular Rapid Communications, 2010, 31, 1181-1186.	2.0	58
79	Biodegradable branched poly(ethylenimine sulfide) for gene delivery. Biomaterials, 2010, 31, 988-997.	5.7	62
80	Chargeâ€Conversional Polyionic Complex Micellesâ€”Efficient Nanocarriers for Protein Delivery into Cytoplasm. Angewandte Chemie - International Edition, 2009, 48, 5309-5312.	7.2	311
81	Inside Cover: Charge-Conversional Polyionic Complex Micelles-Efficient Nanocarriers for Protein Delivery into Cytoplasm (Angew. Chem. Int. Ed. 29/2009). Angewandte Chemie - International Edition, 2009, 48, 5220-5220.	7.2	6
82	A new biodegradable crosslinked polyethylene oxide sulfide (PEOS) hydrogel for controlled drug release. International Journal of Pharmaceutics, 2009, 374, 58-65.	2.6	42
83	Conformational recovery and preservation of protein nature from heat-induced denaturation by water-soluble phospholipid polymer conjugation. Biomaterials, 2009, 30, 4859-4867.	5.7	23
84	Biosignal-sensitive polyion complex micelles for the delivery of biopharmaceuticals. Soft Matter, 2009, 5, 3810.	1.2	145
85	Analysis of the Relationship between the Molecular Weight and Transfection Efficiency/Cytotoxicity of Poly-L-arginine on a Mammalian Cell Line. Bulletin of the Korean Chemical Society, 2009, 30, 927-930.	1.0	17
86	Chargeâ€Conversion Ternary Polyplex with Endosome Disruption Moiety: A Technique for Efficient and Safe Gene Delivery. Angewandte Chemie - International Edition, 2008, 47, 5163-5166.	7.2	206
87	Oriented Immobilization of Antibodies with GST-Fused Multiple Fc-Specific B-Domains on a Gold Surface. Analytical Chemistry, 2007, 79, 546-556.	3.2	64
88	Visualization of the Degradation of a Disulfide Polymer, Linear Poly(ethylenimine sulfide), for Gene Delivery. Bioconjugate Chemistry, 2007, 18, 13-18.	1.8	178
89	A Protein Nanocarrier from Charge-Conversion Polymer in Response to Endosomal pH. Journal of the American Chemical Society, 2007, 129, 5362-5363.	6.6	381
90	Poly(ethylene oxide sulfide):Â New Poly(ethylene glycol) Derivatives Degradable in Reductive Conditions. Biomacromolecules, 2005, 6, 24-26.	2.6	87

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91	New cationic lipids for gene transfer with high efficiency and low toxicity: T-shape cholesterol ester derivatives. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2637-2641.	1.0	26
92	Polyplexes Assembled with Internally Quaternized PAMAM-OH Dendrimer and Plasmid DNA Have a Neutral Surface and Gene Delivery Potency. Bioconjugate Chemistry, 2003, 14, 1214-1221.	1.8	171
93	Intraperitoneal gene delivery mediated by a novel cationic liposome in a peritoneal disseminated ovarian cancer model. Gene Therapy, 2002, 9, 859-866.	2.3	43
94	Cationic Hyperbranched Poly(amino ester):Â A Novel Class of DNA Condensing Molecule with Cationic Surface, Biodegradable Three-Dimensional Structure, and Tertiary Amine Groups in the Interior. Journal of the American Chemical Society, 2001, 123, 2460-2461.	6.6	151
95	Biodegradable polyester, poly[alpha-(4-aminobutyl)-L-glycolic acid], as a non-toxic gene carrier. Pharmaceutical Research, 2000, 17, 811-816.	1.7	172