

Yeu-Chun Kim

List of Publications by Citations

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107
papers

4,443
citations

39
h-index

64
g-index

111
ext. papers

5,118
ext. citations

7.1
avg, IF

5.86
L-index

#	Paper	IF	Citations
107	Microneedles for drug and vaccine delivery. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 1547-68	18.5	993
106	Formulation and coating of microneedles with inactivated influenza virus to improve vaccine stability and immunogenicity. <i>Journal of Controlled Release</i> , 2010 , 142, 187-95	11.7	196
105	Intradermal vaccination with influenza virus-like particles by using microneedles induces protection superior to that with intramuscular immunization. <i>Journal of Virology</i> , 2010 , 84, 7760-9	6.6	108
104	Improved influenza vaccination in the skin using vaccine coated microneedles. <i>Vaccine</i> , 2009 , 27, 6932-8	4.1	97
103	Enhanced memory responses to seasonal H1N1 influenza vaccination of the skin with the use of vaccine-coated microneedles. <i>Journal of Infectious Diseases</i> , 2010 , 201, 190-8	7	96
102	Dose sparing enabled by skin immunization with influenza virus-like particle vaccine using microneedles. <i>Journal of Controlled Release</i> , 2010 , 147, 326-32	11.7	93
101	The effect of heat on skin permeability. <i>International Journal of Pharmaceutics</i> , 2008 , 359, 94-103	6.5	87
100	Transdermal delivery enhanced by magainin pore-forming peptide. <i>Journal of Controlled Release</i> , 2007 , 122, 375-83	11.7	85
99	Enhanced Photodynamic Cancer Treatment by Mitochondria-Targeting and Brominated Near-Infrared Fluorophores. <i>Advanced Science</i> , 2018 , 5, 1700481	13.6	82
98	Stability kinetics of influenza vaccine coated onto microneedles during drying and storage. <i>Pharmaceutical Research</i> , 2011 , 28, 135-44	4.5	82
97	Stabilization of influenza vaccine enhances protection by microneedle delivery in the mouse skin. <i>PLoS ONE</i> , 2009 , 4, e7152	3.7	82
96	An electrically active microneedle array for electroporation. <i>Biomedical Microdevices</i> , 2010 , 12, 263-73	3.7	80
95	Drug Development: A Helical Polypeptide-Based Potassium Ionophore Induces Endoplasmic Reticulum Stress-Mediated Apoptosis by Perturbing Ion Homeostasis (Adv. Sci. 14/2019). <i>Advanced Science</i> , 2019 , 6, 1970087	13.6	78
94	Formulation of microneedles coated with influenza virus-like particle vaccine. <i>AAPS PharmSciTech</i> , 2010 , 11, 1193-201	3.9	78
93	Bacillus Calmette-Guérin vaccination using a microneedle patch. <i>Vaccine</i> , 2011 , 29, 2626-36	4.1	75
92	Microneedle patches for vaccine delivery. <i>Clinical and Experimental Vaccine Research</i> , 2014 , 3, 42-9	1.9	68
91	Protease-activatable cell-penetrating peptide possessing ROS-triggered phase transition for enhanced cancer therapy. <i>Journal of Controlled Release</i> , 2017 , 264, 89-101	11.7	65

90	Increased immunogenicity of avian influenza DNA vaccine delivered to the skin using a microneedle patch. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 81, 239-47	5.7	64
89	DNA vaccination in the skin using microneedles improves protection against influenza. <i>Molecular Therapy</i> , 2012 , 20, 1472-80	11.7	63
88	Microneedle delivery of H5N1 influenza virus-like particles to the skin induces long-lasting B- and T-cell responses in mice. <i>Vaccine Journal</i> , 2010 , 17, 1381-9		63
87	Improved protection against avian influenza H5N1 virus by a single vaccination with virus-like particles in skin using microneedles. <i>Antiviral Research</i> , 2010 , 88, 244-7	10.8	62
86	Enabling skin vaccination using new delivery technologies. <i>Drug Delivery and Translational Research</i> , 2011 , 1, 7-12	6.2	60
85	CD44 targeting biocompatible and biodegradable hyaluronic acid cross-linked zein nanogels for curcumin delivery to cancer cells: In vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2018 , 280, 20-30	11.7	59
84	Drug-coated microneedles for rapid and painless local anesthesia. <i>Biomedical Microdevices</i> , 2017 , 19, 2	3.7	58
83	Influenza virus-like particles coated onto microneedles can elicit stimulatory effects on Langerhans cells in human skin. <i>Vaccine</i> , 2010 , 28, 6104-13	4.1	57
82	Effective humoral immune response from a H1N1 DNA vaccine delivered to the skin by microneedles coated with PLGA-based cationic nanoparticles. <i>Journal of Controlled Release</i> , 2017 , 265, 66-74	11.7	54
81	Snake fang-inspired stamping patch for transdermal delivery of liquid formulations. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	51
80	Long-term protective immunity from an influenza virus-like particle vaccine administered with a microneedle patch. <i>Vaccine Journal</i> , 2013 , 20, 1433-9		51
79	Bioreducible branched poly(modified nona-arginine) cell-penetrating peptide as a novel gene delivery platform. <i>Journal of Controlled Release</i> , 2017 , 246, 142-154	11.7	50
78	Cross-protection by co-immunization with influenza hemagglutinin DNA and inactivated virus vaccine using coated microneedles. <i>Journal of Controlled Release</i> , 2013 , 172, 579-88	11.7	50
77	Intracellular protein delivery and gene transfection by electroporation using a microneedle electrode array. <i>Small</i> , 2012 , 8, 1081-91	11	48
76	Electroactive bio-epoxy incorporated chitosan-oligoaniline as an advanced hydrogel coating for neural interfaces. <i>Progress in Organic Coatings</i> , 2019 , 131, 389-396	4.8	47
75	Self-gelling electroactive hydrogels based on chitosan-aniline oligomers/agarose for neural tissue engineering with on-demand drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 184, 110549	6	47
74	Volatile fatty acids derived from waste organics provide an economical carbon source for microbial lipids/biodiesel production. <i>Biotechnology Journal</i> , 2014 , 9, 1536-46	5.6	45
73	Microneedles for vaccine delivery: challenges and future perspectives. <i>Therapeutic Delivery</i> , 2017 , 8, 447-460	3.8	41

72	Zein-alginate based oral drug delivery systems: Protection and release of therapeutic proteins. <i>International Journal of Pharmaceutics</i> , 2016 , 515, 300-306	6.5	40
71	Biomedical applications of microneedles in therapeutics: recent advancements and implications in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 109-31	8	40
70	Tissue engineering with electrospun electro-responsive chitosan-aniline oligomer/polyvinyl alcohol. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 160-169	7.9	40
69	Synergistic enhancement of skin permeability by N-lauroylsarcosine and ethanol. <i>International Journal of Pharmaceutics</i> , 2008 , 352, 129-38	6.5	39
68	Establishment of a controlled insulin delivery system using a glucose-responsive double-layered nanogel. <i>RSC Advances</i> , 2015 , 5, 14482-14491	3.7	36
67	Radio frequency responsive nano-biomaterials for cancer therapy. <i>Journal of Controlled Release</i> , 2015 , 204, 85-97	11.7	34
66	Biochemical enhancement of transdermal delivery with magainin peptide: modification of electrostatic interactions by changing pH. <i>International Journal of Pharmaceutics</i> , 2008 , 362, 20-8	6.5	31
65	Influenza immunization with trehalose-stabilized virus-like particle vaccine using microneedles. <i>Procedia in Vaccinology</i> , 2010 , 2, 15-19		28
64	Optimization of volatile fatty acids and hydrogen production from <i>Saccharina japonica</i> : acidogenesis and molecular analysis of the resulting microbial communities. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 3327-37	5.7	27
63	Improvement of fermentative production of exopolysaccharides from <i>Aureobasidium pullulans</i> under various conditions. <i>Korean Journal of Chemical Engineering</i> , 2014 , 31, 1433-1437	2.8	26
62	Microneedle and mucosal delivery of influenza vaccines. <i>Expert Review of Vaccines</i> , 2012 , 11, 547-60	5.2	26
61	Enhanced Transdermal Drug Delivery by Sonophoresis and Simultaneous Application of Sonophoresis and Iontophoresis. <i>AAPS PharmSciTech</i> , 2019 , 20, 96	3.9	25
60	Protective efficacy of <i>Streptococcus iniae</i> derived enolase against Streptococcal infection in a zebrafish model. <i>Veterinary Immunology and Immunopathology</i> , 2016 , 170, 25-9	2	23
59	A branched TAT cell-penetrating peptide as a novel delivery carrier for the efficient gene transfection. <i>Biomaterials Research</i> , 2016 , 20, 28	16.8	22
58	A novel electroporation system for efficient molecular delivery into <i>Chlamydomonas reinhardtii</i> with a 3-dimensional microelectrode. <i>Scientific Reports</i> , 2015 , 5, 15835	4.9	22
57	Development of transdermal vitamin D3 (VD3) delivery system using combinations of PLGA nanoparticles and microneedles. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 281-290	6.2	21
56	Curcumin as a Novel Nanocarrier System for Doxorubicin Delivery to MDR Cancer Cells: In Vitro and In Vivo Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28458-28470	9.5	20
55	Improved volatile fatty acid and biomethane production from lipid removed microalgal residue (LRAR) through pretreatment. <i>Bioresource Technology</i> , 2013 , 149, 590-4	11	20

54	Nano-patterning of a stainless steel microneedle surface to improve the dip-coating efficiency of a DNA vaccine and its immune response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 159, 54-61	6	20
53	Visualization of plasmid delivery to keratinocytes in mouse and human epidermis. <i>Scientific Reports</i> , 2011 , 1, 158	4.9	20
52	Oral Gavage Delivery of PR8 Antigen with β -Glucan-Conjugated GRGDS Carrier to Enhance M-Cell Targeting Ability and Induce Immunity. <i>Biomacromolecules</i> , 2017 , 18, 1172-1179	6.9	19
51	Volatile fatty acid production from lignocellulosic biomass by lime pretreatment and its applications to industrial biotechnology. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 1163-1168	3.1	19
50	Transdermal delivery enhanced by antimicrobial peptides. <i>Journal of Biomedical Nanotechnology</i> , 2010 , 6, 612-20	4	19
49	Polypeptide-based polyelectrolyte complexes overcoming the biological barriers of oral insulin delivery. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 48, 79-87	6.3	17
48	A comprehensive study on volatile fatty acids production from rice straw coupled with microbial community analysis. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1157-66	3.7	16
47	Enhancement of volatile fatty acids production from rice straw via anaerobic digestion with chemical pretreatment. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1623-7	3.7	16
46	Translocation of cell penetrating peptides on <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2795-801	4.9	16
45	pH-controllable cell-penetrating polypeptide that exhibits cancer targeting. <i>Acta Biomaterialia</i> , 2017 , 57, 187-196	10.8	14
44	Structure-inherent near-infrared bilayer nanovesicles for use as photoacoustic image-guided chemo-thermotherapy. <i>Journal of Controlled Release</i> , 2020 , 320, 283-292	11.7	14
43	Microneedle delivery of trivalent influenza vaccine to the skin induces long-term cross-protection. <i>Journal of Drug Targeting</i> , 2016 , 24, 943-951	5.4	14
42	Highly efficient molecular delivery into <i>Chlamydomonas reinhardtii</i> by electroporation. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 1626-1630	2.8	14
41	Immunogenic Cell Death Inducing Fluorinated Mitochondria-Disrupting Helical Polypeptide Synergizes with PD-L1 Immune Checkpoint Blockade. <i>Advanced Science</i> , 2021 , 8, 2001308	13.6	14
40	Evaluation of cell penetrating peptide coated Mn:ZnS nanoparticles for paclitaxel delivery to cancer cells. <i>Scientific Reports</i> , 2018 , 8, 1899	4.9	13
39	Microneedle Vaccination Elicits Superior Protection and Antibody Response over Intranasal Vaccination against Swine-Origin Influenza A (H1N1) in Mice. <i>PLoS ONE</i> , 2015 , 10, e0130684	3.7	13
38	Development of the novel coating formulations for skin vaccination using stainless steel microneedle. <i>Drug Delivery and Translational Research</i> , 2016 , 6, 486-97	6.2	12
37	Effect of zymosan and poly (I:C) adjuvants on responses to microneedle immunization coated with whole inactivated influenza vaccine. <i>Journal of Controlled Release</i> , 2017 , 265, 83-92	11.7	12

36	Isolation and purification of methyl mercaptan oxidase from <i>Rhodococcus rhodochrous</i> for mercaptan detection. <i>Biotechnology and Bioprocess Engineering</i> , 2000 , 5, 465-468	3.1	12
35	Therapeutic vitamin delivery: Chemical and physical methods with future directions. <i>Journal of Controlled Release</i> , 2019 , 298, 83-98	11.7	11
34	Efficient and selective cancer therapy using pro-oxidant drug-loaded reactive oxygen species (ROS)-responsive polypeptide micelles. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 95, 101-108	6.3	11
33	A Helical Polypeptide-Based Potassium Ionophore Induces Endoplasmic Reticulum Stress-Mediated Apoptosis by Perturbing Ion Homeostasis. <i>Advanced Science</i> , 2019 , 6, 1801995	13.6	10
32	C-di-GMP with influenza vaccine showed enhanced and shifted immune responses in microneedle vaccination in the skin. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 815-825	6.2	10
31	Optimization of transdermal delivery using magainin pore-forming peptide. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1560-1563	3.9	10
30	Topical delivery of 5-fluorouracil-loaded carboxymethyl chitosan nanoparticles using microneedles for keloid treatment. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 205-213	6.2	10
29	A highly efficient cell penetrating peptide pVEC-mediated protein delivery system into microalgae. <i>Algal Research</i> , 2017 , 24, 360-367	5	9
28	Cancer-specific pro-oxidant therapy using low-toxic polypeptide micelles encapsulating piperlongumine. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 63, 57-64	6.3	9
27	Targeting the tumor microenvironment with amphiphilic near-infrared cyanine nanoparticles for potentiated photothermal immunotherapy. <i>Biomaterials</i> , 2021 , 275, 120926	15.6	9
26	Stimuli-Responsive Polypeptides for Biomedical Applications. <i>Polymers</i> , 2018 , 10,	4.5	8
25	Skin Vaccination Methods: Gene Gun, Jet Injector, Tattoo Vaccine, and Microneedle 2017 , 485-499		7
24	Engineering of <i>Klebsiella oxytoca</i> for production of 2,3-butanediol via simultaneous utilization of sugars from a <i>Golenkinia</i> sp. hydrolysate. <i>Bioresource Technology</i> , 2017 , 245, 1386-1392	11	7
23	Olive Oil-Based Ultrafine Theranostic Photo Nanoemulsions: A Versatile Tumor Maneuvering Nanoplatform for Precise Controlled Drug Release in Tumor and Complete Tumor Eradication Mediated by Photo-Chemotherapy. <i>Advanced Therapeutics</i> , 2019 , 2, 1800154	4.9	7
22	Self-Assembled Supramolecular Bilayer Nanoparticles Composed of Near-Infrared Dye as a Theranostic Nanoplatform To Encapsulate Hydrophilic Drugs Effectively. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 474-484	5.5	7
21	Development of a pVEC peptide-based ribonucleoprotein (RNP) delivery system for genome editing using CRISPR/Cas9 in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2020 , 10, 22158	4.9	7
20	Comprehensive study on volatile fatty acid production from <i>Ettlia</i> sp. residue with molecular analysis of the microbial community. <i>Algal Research</i> , 2016 , 17, 161-167	5	7
19	Development of apoptosis-inducing polypeptide via simultaneous mitochondrial membrane disruption and Ca delivery. <i>Biomaterials</i> , 2019 , 197, 51-59	15.6	7

18	Enhanced transdermal delivery with less irritation by magainin pore-forming peptide with a N-lauroylsarcosine and sorbitan monolaurate mixture. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 54-63	6.2	7
17	Microcrystalline Cellulose for Delivery of Recombinant Protein-Based Antigen against Erysipelas in Mice. <i>BioMed Research International</i> , 2018 , 2018, 7670505	3	6
16	Conformation-switchable helical polypeptide eliciting selective pro-apoptotic activity for cancer therapy. <i>Journal of Controlled Release</i> , 2017 , 264, 24-33	11.7	6
15	CD44-Mediated Methotrexate Delivery by Hyaluronan-Coated Nanoparticles Composed of a Branched Cell-Penetrating Peptide. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 494-504	5.5	6
14	Ultrasound-mediated drug delivery by gas bubbles generated from a chemical reaction. <i>Journal of Drug Targeting</i> , 2018 , 26, 172-181	5.4	5
13	Microneedle applications for DNA vaccine delivery to the skin. <i>Methods in Molecular Biology</i> , 2014 , 1143, 141-58	1.4	5
12	Self-assembled heptamethine cyanine dye dimer as a novel theranostic drug delivery carrier for effective image-guided chemo-photothermal cancer therapy. <i>Journal of Controlled Release</i> , 2021 , 329, 50-62	11.7	5
11	Effective production of human growth factors in Escherichia coli by fusing with small protein 6HFh8. <i>Microbial Cell Factories</i> , 2021 , 20, 9	6.4	5
10	Plasmid DNA Nanoparticles for Nonviral Oral Gene Therapy. <i>Nano Letters</i> , 2021 , 21, 4666-4675	11.5	4
9	Helical Antimicrobial Peptide Encapsulation and Release from Boron Nitride Nanotubes: A Computational Study. <i>International Journal of Nanomedicine</i> , 2021 , 16, 4277-4288	7.3	4
8	Identification of novel immunogenic proteins against Streptococcus parauberis in a zebrafish model by reverse vaccinology. <i>Microbial Pathogenesis</i> , 2019 , 127, 56-59	3.8	4
7	High-level production of N-terminal pro-brain natriuretic peptide, as a calibrant of heart failure diagnosis, in Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 4779-4788	5.7	3
6	Functionalized inclined-GaN based nanoneedles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 184-191	6.3	2
5	Delivery of Niacinamide to the Skin Using Microneedle-Like Particles. <i>Pharmaceutics</i> , 2019 , 11,	6.4	2
4	Polypeptide-Based K Ionophore as a Strong Immunogenic Cell Death Inducer for Cancer Immunotherapy. <i>ACS Applied Bio Materials</i> , 2021 , 4, 8333-8342	4.1	1
3	Effect of cholecalciferol on unsaturated model membranes. <i>Chemistry and Physics of Lipids</i> , 2021 , 235, 105058	3.7	1
2	Radiofrequency-sensitive nanocarriers for cancer drug delivery 2019 , 91-106		1
1	Expression and purification of soluble and active human enterokinase light chain in. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021 , 30, e00626	5.3	0

