

Yeu-Chun Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3504021/publications.pdf>

Version: 2024-02-01

109
papers

5,638
citations

81839

39
h-index

82499

72
g-index

111
all docs

111
docs citations

111
times ranked

5950
citing authors

#	ARTICLE	IF	CITATIONS
1	Microneedles for drug and vaccine delivery. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1547-1568.	6.6	1,279
2	Formulation and coating of microneedles with inactivated influenza virus to improve vaccine stability and immunogenicity. <i>Journal of Controlled Release</i> , 2010, 142, 187-195.	4.8	217
3	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, 7760-7769.	1.5	118
4	Improved influenza vaccination in the skin using vaccine coated microneedles. <i>Vaccine</i> , 2009, 27, 6932-6938.	1.7	110
5	The effect of heat on skin permeability. <i>International Journal of Pharmaceutics</i> , 2008, 359, 94-103.	2.6	109
6	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, 190-198.	1.9	107
7	An electrically active microneedle array for electroporation. <i>Biomedical Microdevices</i> , 2010, 12, 263-273.	1.4	106
8	Enhanced Photodynamic Cancer Treatment by Mitochondria-Targeting and Brominated Near-Infrared Fluorophores. <i>Advanced Science</i> , 2018, 5, 1700481.	5.6	105
9	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.	4.8	104
10	Dose sparing enabled by skin immunization with influenza virus-like particle vaccine using microneedles. <i>Journal of Controlled Release</i> , 2010, 147, 326-332.	4.8	99
11	Snake fang-inspired stamping patch for transdermal delivery of liquid formulations. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	95
12	Transdermal delivery enhanced by magainin pore-forming peptide. <i>Journal of Controlled Release</i> , 2007, 122, 375-383.	4.8	93
13	Stabilization of Influenza Vaccine Enhances Protection by Microneedle Delivery in the Mouse Skin. <i>PLoS ONE</i> , 2009, 4, e7152.	1.1	92
14	Formulation of Microneedles Coated with Influenza Virus-like Particle Vaccine. <i>AAPS PharmSciTech</i> , 2010, 11, 1193-1201.	1.5	91
15	Stability Kinetics of Influenza Vaccine Coated onto Microneedles During Drying and Storage. <i>Pharmaceutical Research</i> , 2011, 28, 135-144.	1.7	91
16	Bacillus Calmette-Guérin vaccination using a microneedle patch. <i>Vaccine</i> , 2011, 29, 2626-2636.	1.7	85
17	Drug-coated microneedles for rapid and painless local anesthesia. <i>Biomedical Microdevices</i> , 2017, 19, 2.	1.4	84
18	Protease-activatable cell-penetrating peptide possessing ROS-triggered phase transition for enhanced cancer therapy. <i>Journal of Controlled Release</i> , 2017, 264, 89-101.	4.8	83

#	ARTICLE	IF	CITATIONS
19	Microneedle patches for vaccine delivery. <i>Clinical and Experimental Vaccine Research</i> , 2014, 3, 42.	1.1	80
20	Enabling skin vaccination using new delivery technologies. <i>Drug Delivery and Translational Research</i> , 2011, 1, 7-12.	3.0	78
21	Tissue engineering with electrospun electro-responsive chitosan-aniline oligomer/polyvinyl alcohol. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 160-169.	3.6	75
22	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.	2.5	74
23	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, 239-247.	2.0	71
24	Electroactive bio-epoxy incorporated chitosan-oligoaniline as an advanced hydrogel coating for neural interfaces. <i>Progress in Organic Coatings</i> , 2019, 131, 389-396.	1.9	70
25	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, 1381-1389.	3.2	68
26	DNA Vaccination in the Skin Using Microneedles Improves Protection Against Influenza. <i>Molecular Therapy</i> , 2012, 20, 1472-1480.	3.7	68
27	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, 244-247.	1.9	65
28	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.	4.8	64
29	Influenza virus-like particles coated onto microneedles can elicit stimulatory effects on Langerhans cells in human skin. <i>Vaccine</i> , 2010, 28, 6104-6113.	1.7	63
30	Intracellular Protein Delivery and Gene Transfection by Electroporation Using a Microneedle Electrode Array. <i>Small</i> , 2012, 8, 1081-1091.	5.2	61
31	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.	4.8	60
32	Long-Term Protective Immunity from an Influenza Virus-Like Particle Vaccine Administered with a Microneedle Patch. <i>Vaccine Journal</i> , 2013, 20, 1433-1439.	3.2	59
33	Microneedles for vaccine delivery: challenges and future perspectives. <i>Therapeutic Delivery</i> , 2017, 8, 447-460.	1.2	56
34	Cross-protection by co-immunization with influenza hemagglutinin DNA and inactivated virus vaccine using coated microneedles. <i>Journal of Controlled Release</i> , 2013, 172, 579-588.	4.8	55
35	Biomedical applications of microneedles in therapeutics: recent advancements and implications in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 109-131.	2.4	54
36	Enhanced Transdermal Drug Delivery by Sonophoresis and Simultaneous Application of Sonophoresis and Iontophoresis. <i>AAPS PharmSciTech</i> , 2019, 20, 96.	1.5	52

#	ARTICLE	IF	CITATIONS
37	Zein-alginate based oral drug delivery systems: Protection and release of therapeutic proteins. <i>International Journal of Pharmaceutics</i> , 2016, 515, 300-306.	2.6	51
38	Volatile fatty acids derived from waste organics provide an economical carbon source for microbial lipids/biodiesel production. <i>Biotechnology Journal</i> , 2014, 9, 1536-1546.	1.8	50
39	Synergistic enhancement of skin permeability by N-lauroylsarcosine and ethanol. <i>International Journal of Pharmaceutics</i> , 2008, 352, 129-138.	2.6	48
40	Radio frequency responsive nano-biomaterials for cancer therapy. <i>Journal of Controlled Release</i> , 2015, 204, 85-97.	4.8	41
41	Establishment of a controlled insulin delivery system using a glucose-responsive double-layered nanogel. <i>RSC Advances</i> , 2015, 5, 14482-14491.	1.7	40
42	Protective efficacy of <i>Streptococcus iniae</i> derived enolase against <i>Streptococcal</i> infection in a zebrafish model. <i>Veterinary Immunology and Immunopathology</i> , 2016, 170, 25-29.	0.5	40
43	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.	3.0	37
44	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, 3327-3337.	1.7	35
45	Biochemical enhancement of transdermal delivery with magainin peptide: Modification of electrostatic interactions by changing pH. <i>International Journal of Pharmaceutics</i> , 2008, 362, 20-28.	2.6	34
46	Microneedle and mucosal delivery of influenza vaccines. <i>Expert Review of Vaccines</i> , 2012, 11, 547-560.	2.0	33
47	Influenza immunization with trehalose-stabilized virus-like particle vaccine using microneedles. <i>Procedia in Vaccinology</i> , 2010, 2, 17-21.	0.4	31
48	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.	1.2	31
49	Oral Gavage Delivery of PR8 Antigen with Î²-Glucan-Conjugated GRGDS Carrier to Enhance M-Cell Targeting Ability and Induce Immunity. <i>Biomacromolecules</i> , 2017, 18, 1172-1179.	2.6	31
50	Immunogenic Cell Death Inducing Fluorinated Mitochondria-Disrupting Helical Polypeptide Synergizes with PD-1 Immune Checkpoint Blockade. <i>Advanced Science</i> , 2021, 8, 2001308.	5.6	31
51	Targeting the tumor microenvironment with amphiphilic near-infrared cyanine nanoparticles for potentiated photothermal immunotherapy. <i>Biomaterials</i> , 2021, 275, 120926.	5.7	31
52	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.	3.0	30
53	Highly efficient molecular delivery into <i>Chlamydomonas reinhardtii</i> by electroporation. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1626-1630.	1.2	28
54	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.	4.0	28

#	ARTICLE	IF	CITATIONS
55	A branched TAT cell-penetrating peptide as a novel delivery carrier for the efficient gene transfection. <i>Biomaterials Research</i> , 2016, 20, 28.	3.2	27
56	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.	2.5	25
57	Effective production of human growth factors in <i>Escherichia coli</i> by fusing with small protein 6HfH8. <i>Microbial Cell Factories</i> , 2021, 20, 9.	1.9	25
58	Improved volatile fatty acid and biomethane production from lipid removed microalgal residue (LR ^{1/4} AR) through pretreatment. <i>Bioresource Technology</i> , 2013, 149, 590-594.	4.8	24
59	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.	1.6	24
60	A Helical Polypeptide-Based Potassium Ionophore Induces Endoplasmic Reticulum Stress-Mediated Apoptosis by Perturbing Ion Homeostasis. <i>Advanced Science</i> , 2019, 6, 1801995.	5.6	24
61	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.	1.4	22
62	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.	1.4	22
63	A comprehensive study on volatile fatty acids production from rice straw coupled with microbial community analysis. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1157-1166.	1.7	22
64	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.	1.6	22
65	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.	2.9	22
66	Visualization of plasmid delivery to keratinocytes in mouse and human epidermis. <i>Scientific Reports</i> , 2011, 1, 158.	1.6	21
67	Polypeptide-based polyelectrolyte complexes overcoming the biological barriers of oral insulin delivery. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 79-87.	2.9	20
68	Transdermal Delivery Enhanced by Antimicrobial Peptides. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 612-620.	0.5	19
69	pH-controllable cell-penetrating polypeptide that exhibits cancer targeting. <i>Acta Biomaterialia</i> , 2017, 57, 187-196.	4.1	19
70	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.	4.8	19
71	Translocation of cell penetrating peptides on <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology and Bioengineering</i> , 2013, 110, 2795-2801.	1.7	18
72	Enhancement of volatile fatty acids production from rice straw via anaerobic digestion with chemical pretreatment. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1623-1627.	1.7	18

#	ARTICLE	IF	CITATIONS
73	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.	3.0	18
74	Microneedle delivery of trivalent influenza vaccine to the skin induces long-term cross-protection. <i>Journal of Drug Targeting</i> , 2016, 24, 943-951.	2.1	17
75	Structure-inherent near-infrared bilayer nanovesicles for use as photoacoustic image-guided chemo-thermotherapy. <i>Journal of Controlled Release</i> , 2020, 320, 283-292.	4.8	17
76	Development of the novel coating formulations for skin vaccination using stainless steel microneedle. <i>Drug Delivery and Translational Research</i> , 2016, 6, 486-497.	3.0	16
77	Evaluation of cell penetrating peptide coated Mn:ZnS nanoparticles for paclitaxel delivery to cancer cells. <i>Scientific Reports</i> , 2018, 8, 1899.	1.6	16
78	Development of apoptosis-inducing polypeptide via simultaneous mitochondrial membrane disruption and Ca ²⁺ delivery. <i>Biomaterials</i> , 2019, 197, 51-59.	5.7	15
79	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.	1.1	14
80	A highly efficient cell penetrating peptide pVEC-mediated protein delivery system into microalgae. <i>Algal Research</i> , 2017, 24, 360-367.	2.4	14
81	Therapeutic vitamin delivery: Chemical and physical methods with future directions. <i>Journal of Controlled Release</i> , 2019, 298, 83-98.	4.8	14
82	Stimuli-Responsive Polypeptides for Biomedical Applications. <i>Polymers</i> , 2018, 10, 830.	2.0	13
83	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.	2.6	13
84	Plasmid DNA Nanoparticles for Nonviral Oral Gene Therapy. <i>Nano Letters</i> , 2021, 21, 4666-4675.	4.5	12
85	Optimization of transdermal delivery using magainin pore-forming peptide. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1560-1563.	1.9	11
86	Cancer-specific pro-oxidant therapy using low-toxic polypeptide micelles encapsulating piperlongumine. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 57-64.	2.9	11
87	Ultrasound-mediated drug delivery by gas bubbles generated from a chemical reaction. <i>Journal of Drug Targeting</i> , 2018, 26, 172-181.	2.1	11
88	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.	4.8	10
89	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.	3.0	10
90	Self-Assembled Supramolecular Bilayer Nanoparticles Composed of Near-Infrared Dye as a Theranostic Nanoplatfrom To Encapsulate Hydrophilic Drugs Effectively. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 474-484.	2.6	10

#	ARTICLE	IF	CITATIONS
91	High-level production of N-terminal pro-brain natriuretic peptide, as a calibrant of heart failure diagnosis, in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4779-4788.	1.7	9
92	±-Helical Antimicrobial Peptide Encapsulation and Release from Boron Nitride Nanotubes: A Computational Study. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 4277-4288.	3.3	9
93	Engineered Nanoparticles inside a Microparticle Oral System for Enhanced Mucosal and Systemic Immunity. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11124-11143.	4.0	9
94	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.	2.4	8
95	Conformation-switchable helical polypeptide eliciting selective pro-apoptotic activity for cancer therapy. <i>Journal of Controlled Release</i> , 2017, 264, 24-33.	4.8	8
96	Delivery of Niacinamide to the Skin Using Microneedle-Like Particles. <i>Pharmaceutics</i> , 2019, 11, 326.	2.0	8
97	Olive Oil-Based Ultrafine Theranostic Photo Nanoemulsions: A Versatile Tumor Maneuvering Nanoplatfrom for Precise Controlled Drug Release in Tumor and Complete Tumor Eradication Mediated by Photo-Chemotherapy. <i>Advanced Therapeutics</i> , 2019, 2, 1800154.	1.6	8
98	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.	4.8	8
99	Skin Vaccination Methods: Gene Gun, Jet Injector, Tattoo Vaccine, and Microneedle. , 2017, , 485-499.		7
100	Identification of novel immunogenic proteins against <i>Streptococcus parauberis</i> in a zebrafish model by reverse vaccinology. <i>Microbial Pathogenesis</i> , 2019, 127, 56-59.	1.3	7
101	Microcrystalline Cellulose for Delivery of Recombinant Protein-Based Antigen against <i>Erysipelas</i> in Mice. <i>BioMed Research International</i> , 2018, 2018, 1-7.	0.9	6
102	Microneedle Applications for DNA Vaccine Delivery to the Skin. <i>Methods in Molecular Biology</i> , 2014, 1143, 141-158.	0.4	5
103	Functionalized inclined-GaN based nanoneedles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 184-191.	2.9	4
104	Synergistic cancer starvation therapy via mitochondria targeting cell penetrating polypeptide. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 397-405.	2.9	4
105	Expression and purification of soluble and active human enterokinase light chain in <i>Escherichia coli</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00626.	2.1	3
106	Polypeptide-Based K ⁺ Ionophore as a Strong Immunogenic Cell Death Inducer for Cancer Immunotherapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 8333-8342.	2.3	3
107	Effect of cholecalciferol on unsaturated model membranes. <i>Chemistry and Physics of Lipids</i> , 2021, 235, 105058.	1.5	2
108	Drug Development: A Helical Polypeptide-Based Potassium Ionophore Induces Endoplasmic Reticulum Stress-Mediated Apoptosis by Perturbing Ion Homeostasis (<i>Adv. Sci.</i> 14/2019). <i>Advanced Science</i> , 2019, 6, 1970087.	5.6	1

#	ARTICLE	IF	CITATIONS
109	Radiofrequency-sensitive nanocarriers for cancer drug delivery. , 2019, , 91-106.		1