

# Lifeng Kang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80 papers	1,987 citations	24 h-index	43 g-index
94 ext. papers	2,349 ext. citations	6 avg, IF	5.14 L-index

#	Paper	IF	Citations
80	Microfluidics for drug discovery and development: from target selection to product lifecycle management. <i>Drug Discovery Today</i> , <b>2008</b> , 13, 1-13	8.8	258
79	3D printed drug delivery and testing systems - a passing fad or the future?. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 132, 139-168	18.5	130
78	Iron oxide filled magnetic carbon nanotube-enzyme conjugates for recycling of amyloglucosidase: toward useful applications in biofuel production process. <i>Langmuir</i> , <b>2012</b> , 28, 16864-73	4	94
77	Nanosized ethosomes bearing ketoprofen for improved transdermal delivery. <i>Results in Pharma Sciences</i> , <b>2011</b> , 1, 60-7		83
76	Limonene GP1/PG organogel as a vehicle in transdermal delivery of haloperidol. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 311, 157-64	6.5	82
75	Effect of microneedle geometry and supporting substrate on microneedle array penetration into skin. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 4100-8	3.9	80
74	Cover Image, Volume 52, Issue 5. <i>Cell Proliferation</i> , <b>2019</b> , 52, e12715	7.9	78
73	Three-dimensional printing of a microneedle array on personalized curved surfaces for dual-pronged treatment of trigger finger. <i>Biofabrication</i> , <b>2017</b> , 9, 015010	10.5	70
72	Formulation development of transdermal dosage forms: quantitative structure-activity relationship model for predicting activities of terpenes that enhance drug penetration through human skin. <i>Journal of Controlled Release</i> , <b>2007</b> , 120, 211-9	11.7	65
71	Micro- and nanoscale technologies for tissue engineering and drug discovery applications. <i>Expert Opinion on Drug Discovery</i> , <b>2007</b> , 2, 1653-68	6.2	61
70	SMGA gels for the skin permeation of haloperidol. <i>Journal of Controlled Release</i> , <b>2005</b> , 106, 88-98	11.7	61
69	A simple method of microneedle array fabrication for transdermal drug delivery. <i>Drug Development and Industrial Pharmacy</i> , <b>2013</b> , 39, 299-309	3.6	48
68	Microneedle integrated transdermal patch for fast onset and sustained delivery of lidocaine. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 4272-80	5.6	46
67	Three-Dimensional Printing of Carbamazepine Sustained-Release Scaffold. <i>Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 105, 2155-63	3.9	40
66	High durability and low toxicity antimicrobial coatings fabricated by quaternary ammonium silane copolymers. <i>Biomaterials Science</i> , <b>2016</b> , 4, 299-309	7.4	38
65	Formulation, characterization and evaluation of mRNA-loaded dissolvable polymeric microneedles (RNApatch). <i>Scientific Reports</i> , <b>2018</b> , 8, 11842	4.9	35
64	Polycaprolactone scaffold as targeted drug delivery system and cell attachment scaffold for postsurgical care of limb salvage. <i>Drug Delivery and Translational Research</i> , <b>2012</b> , 2, 272-83	6.2	33

63	UV-curable pressure sensitive adhesive films: effects of biocompatible plasticizers on mechanical and adhesion properties. <i>Soft Matter</i> , <b>2013</b> , 9, 6270	3.6	31
62	Novel engineered systems for oral, mucosal and transdermal drug delivery. <i>Journal of Drug Targeting</i> , <b>2013</b> , 21, 611-29	5.4	31
61	Pharmaceutical Applications of 3D Printing. <i>Additive Manufacturing</i> , <b>2020</b> , 34, 101209	6.1	29
60	Physicochemical effects of terpenes on organogel for transdermal drug delivery. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 358, 102-7	6.5	28
59	Reversible effects of permeation enhancers on human skin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 67, 149-55	5.7	27
58	Adult cardiac progenitor cell aggregates exhibit survival benefit both in vitro and in vivo. <i>PLoS ONE</i> , <b>2012</b> , 7, e50491	3.7	27
57	Large Size Microneedle Patch to Deliver Lidocaine through Skin. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 2653-67	4.5	26
56	Protein encapsulation in polymeric microneedles by photolithography. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 3143-54	7.3	24
55	Direct microneedle array fabrication off a photomask to deliver collagen through skin. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 1724-34	4.5	23
54	Microfabricated particulate drug-delivery systems. <i>Biotechnology Journal</i> , <b>2011</b> , 6, 1477-87	5.6	22
53	Fabrication of non-dissolving analgesic suppositories using 3D printed moulds. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 513, 717-724	6.5	22
52	Microneedle-Mediated Delivery of Copper Peptide Through Skin. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 2678-89	4.5	20
51	Geometrical optimisation of a personalised microneedle eye patch for transdermal delivery of anti-wrinkle small peptide. <i>Biofabrication</i> , <b>2020</b> , 12, 035003	10.5	20
50	Cell confinement in patterned nanoliter droplets in a microwell array by wiping. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 547-57	5.4	20
49	Enhanced Skin Permeation of Anti-wrinkle Peptides via Molecular Modification. <i>Scientific Reports</i> , <b>2018</b> , 8, 1596	4.9	19
48	Squid suckerin microneedle arrays for tunable drug release. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8467-8478	7.3	19
47	Interactions between a skin penetration enhancer and the main components of human stratum corneum lipids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2006</b> , 83, 27-30	4.1	19
46	rGO nanomaterial-mediated cancer targeting and photothermal therapy in a microfluidic co-culture platform. <i>Nano Convergence</i> , <b>2020</b> , 7, 10	9.2	18

45	High resolution photopolymer for 3D printing of personalised microneedle for transdermal delivery of anti-wrinkle small peptide. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 907-918	11.7	18
44	Drug permeation through skin is inversely correlated with carrier gel rigidity. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 444-52	5.6	16
43	Arraycount, an algorithm for automatic cell counting in microwell arrays. <i>BioTechniques</i> , <b>2009</b> , 47, x-xvi	2.5	16
42	Fabrication of a 3D hair follicle-like hydrogel by soft lithography. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3159-69	5.4	14
41	Rapid microneedle fabrication by heating and photolithography. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 575, 118992	6.5	14
40	Selected Biomarkers Revealed Potential Skin Toxicity Caused by Certain Copper Compounds. <i>Scientific Reports</i> , <b>2016</b> , 6, 37664	4.9	14
39	In vitro Antiviral Activity of Rubia cordifolia Aerial Part Extract against Rotavirus. <i>Frontiers in Pharmacology</i> , <b>2016</b> , 7, 308	5.6	13
38	A miniaturized flow-through cell to evaluate skin permeation of endoxifen. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 441, 433-40	6.5	12
37	Microneedles with Tunable Dissolution Rate. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 5061-5068	6.5	12
36	Elevating Biomedical Performance of ZnO/SiO <sub>2</sub> @Amorphous Calcium Phosphate - Bioinspiration Making Possible the Impossible. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6921-6929	15.6	11
35	Keratinocytes maintain compartmentalization between dermal papilla and fibroblasts in 3D heterotypic tri-cultures. <i>Cell Proliferation</i> , <b>2019</b> , 52, e12668	7.9	10
34	Impact of substrate stiffness on dermal papilla aggregates in microgels. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1347-1357	7.4	9
33	NANO/MICROSCALE TECHNOLOGIES FOR DRUG DELIVERY. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2011</b> , 11, 337-367	0.7	9
32	Polymeric Microneedle Array Fabrication by Photolithography. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	8
31	Fabrication of photomasks consisting microlenses for the production of polymeric microneedle array. <i>Drug Delivery and Translational Research</i> , <b>2015</b> , 5, 438-50	6.2	7
30	Proposome for transdermal delivery of tofacitinib. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 585, 119558	6.5	7
29	A proton-coupled organic cation antiporter is involved in the blood-brain barrier transport of Aconitum alkaloids. <i>Journal of Ethnopharmacology</i> , <b>2020</b> , 252, 112581	5	7
28	A drug-laden elastomer for surgical treatment of anal fistula. <i>Drug Delivery and Translational Research</i> , <b>2011</b> , 1, 439-47	6.2	6

27	Microneedles for Transdermal Drug Delivery <b>2019</b> ,		5
26	Bioactives in Chinese Proprietary Medicine Modulates 5 $\beta$ -Reductase Activity and Gene Expression Associated with Androgenetic Alopecia. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 194	5.6	5
25	Applications of Small-Molecule Gels [Drug Delivery <b>2013</b> , 115-128		4
24	Microfluidic devices for drug discovery and analysis <b>2013</b> , 231-280		3
23	Enhancement of Skin Delivery of Drugs Using Proposome Depends on Drug Lipophilicity. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	3
22	A miniaturized device for biomembrane permeation analysis. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109772	8.3	2
21	Recent Trends in Microneedle Development & Applications in Medicine and Cosmetics (2013–2018) <b>2019</b> , 95-144		2
20	Clinical therapeutics for phenylketonuria. <i>Drug Delivery and Translational Research</i> , <b>2012</b> , 2, 223-37	6.2	2
19	A 3D printed human upper respiratory tract model for particulate deposition profiling. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 597, 120307	6.5	2
18	Investigating PEGDA and GelMA Microgel Models for Sustained 3D Heterotypic Dermal Papilla and Keratinocyte Co-Cultures. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
17	Microneedle Patch for Fast Onset and Long-Lasting Delivery of Painkillers <b>2019</b> , 67-80		1
16	Molecular Gels for Tissue Engineering <b>2013</b> , 129-162		1
15	Terpenes and Improvement of Transdermal Drug Delivery <b>2013</b> , 3757-3774		1
14	Development of a 3D-printed Medication Label for the Blind and Visually Impaired. <i>International Journal of Bioprinting</i> , <b>2020</b> , 6, 276	6.2	1
13	Enhanced skin permeation of a novel peptide via structural modification, chemical enhancement, and microneedles		1
12	Personalized anesthetic patches for dental applications. <i>International Journal of Bioprinting</i> , <b>2019</b> , 5, 203	6.2	1
11	Mahuang Decoction Antagonizes Acute Liver Failure via Modulating Tricarboxylic Acid Cycle and Amino Acids Metabolism. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 599180	5.6	1
10	Effect of Pharmaceutical Excipients on Intestinal Absorption of Metformin via Organic Cation-Selective Transporters. <i>Molecular Pharmaceutics</i> , <b>2021</b> , 18, 2198-2207	5.6	1

- 9 Immobilized nanoneedle-like structures for intracellular delivery, biosensing and cellular surgery. *Nanomedicine*, **2021**, 16, 335-349 5.6 1
- 8 Enhanced skin retention and permeation of a novel peptide via structural modification, chemical enhancement, and microneedles. *International Journal of Pharmaceutics*, **2021**, 606, 120868 6.5 1
- 7 Development and validation of a highly sensitive LC-MS/MS method for determination of brain active agent dianhydrogalactitol in mouse plasma and tissues: Application to a pharmacokinetic study. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2018**, 1087-1088, 90-97 3.2
- 6 Materials & Methods **2019**, 31-47
- 5 A Simple Method of Microneedle Array Fabrication for Transdermal Drug Delivery **2019**, 49-55
- 4 Microneedle Patch to Deliver Collagen Through the Skin **2019**, 81-94
- 3 Introduction & Literature Review **2019**, 1-30
- 2 Protein Encapsulation in Polymeric Microneedles by Photolithography **2019**, 57-66
- 1 Microfluidic systems for drug discovery, pharmaceutical analysis, and diagnostic applications **2021**, 261-327