

# Kyung-Mi Lee

## List of Publications by Year in descending order

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100  
papers

6,053  
citations

71061

41  
h-index

74108

75  
g-index

104  
all docs

104  
docs citations

104  
times ranked

10411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioresorbable silicon electronic sensors for the brain. <i>Nature</i> , 2016, 530, 71-76.	13.7	778
2	Elevated TGF- $\beta$ 1 Secretion and Down-Modulation of NKG2D Underlies Impaired NK Cytotoxicity in Cancer Patients. <i>Journal of Immunology</i> , 2004, 172, 7335-7340.	0.4	481
3	SIRT1 promotes DNA repair activity and deacetylation of Ku70. <i>Experimental and Molecular Medicine</i> , 2007, 39, 8-13.	3.2	284
4	The Effect of Radiation on the Immune Response to Cancers. <i>International Journal of Molecular Sciences</i> , 2014, 15, 927-943.	1.8	213
5	2B4 Acts As a Non-Major Histocompatibility Complex Binding Inhibitory Receptor on Mouse Natural Killer Cells. <i>Journal of Experimental Medicine</i> , 2004, 199, 1245-1254.	4.2	179
6	Dissolution Chemistry and Biocompatibility of Single-Crystalline Silicon Nanomembranes and Associated Materials for Transient Electronics. <i>ACS Nano</i> , 2014, 8, 5843-5851.	7.3	171
7	Effective Immobilization of BMP-2 Mediated by Polydopamine Coating on Biodegradable Nanofibers for Enhanced in Vivo Bone Formation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11225-11235.	4.0	167
8	25th Anniversary Article: Materials for High-Performance Biodegradable Semiconductor Devices. <i>Advanced Materials</i> , 2014, 26, 1992-2000.	11.1	161
9	CVD-grown monolayer MoS <sub>2</sub> in bioabsorbable electronics and biosensors. <i>Nature Communications</i> , 2018, 9, 1690.	5.8	155
10	Dissolution Chemistry and Biocompatibility of Silicon- and Germanium-Based Semiconductors for Transient Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9297-9305.	4.0	147
11	CD160 is essential for NK-mediated IFN- $\gamma$ production. <i>Journal of Experimental Medicine</i> , 2015, 212, 415-429.	4.2	116
12	Synthesis of streptavidin-FITC-conjugated core-shell Fe <sub>3</sub> O <sub>4</sub> -Au nanocrystals and their application for the purification of CD4 <sup>+</sup> lymphocytes. <i>Biomaterials</i> , 2008, 29, 4003-4011.	5.7	99
13	Natural Killer Cells Degenerate Intact Sensory Afferents following Nerve Injury. <i>Cell</i> , 2019, 176, 716-728.e18.	13.5	98
14	2B4 (CD244) is a non-MHC binding receptor with multiple functions on natural killer cells and CD8 <sup>+</sup> T cells. <i>Molecular Immunology</i> , 2005, 42, 489-494.	1.0	90
15	Immunologic and Tissue Biocompatibility of Flexible/Stretchable Electronics and Optoelectronics. <i>Advanced Healthcare Materials</i> , 2014, 3, 515-525.	3.9	90
16	Targeted Disruption of the <i>2B4</i> Gene in Mice Reveals an In Vivo Role of 2B4 (CD244) in the Rejection of B16 Melanoma Cells. <i>Journal of Immunology</i> , 2005, 174, 800-807.	0.4	88
17	Poly(oligo-D-arginine) With Internal Disulfide Linkages as a Cytoplasm-sensitive Carrier for siRNA Delivery. <i>Molecular Therapy</i> , 2011, 19, 372-380.	3.7	82
18	Biological lipid membranes for on-demand, wireless drug delivery from thin, bioresorbable electronic implants. <i>NPG Asia Materials</i> , 2015, 7, e227-e227.	3.8	80

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19	NK Cell-Based Immunotherapies in Cancer. <i>Immune Network</i> , 2020, 20, e14.	1.6	79
20	Cutting Edge: The NK Cell Receptor 2B4 Augments Antigen-Specific T Cell Cytotoxicity Through CD48 Ligation on Neighboring T Cells. <i>Journal of Immunology</i> , 2003, 170, 4881-4885.	0.4	78
21	Requirement of homotypic NK-cell interactions through 2B4(CD244)/CD48 in the generation of NK effector functions. <i>Blood</i> , 2006, 107, 3181-3188.	0.6	78
22	Nano Self-Assembly of Recombinant Human Gelatin Conjugated with $\alpha$ -Tocopheryl Succinate for Hsp90 Inhibitor, 17-AAG, Delivery. <i>ACS Nano</i> , 2011, 5, 3839-3848.	7.3	76
23	Decreased expression of DNA repair proteins Ku70 and Mre11 is associated with aging and may contribute to the cellular senescence. <i>Experimental and Molecular Medicine</i> , 2006, 38, 686-693.	3.2	73
24	HDAC1 Upregulation by NANOG Promotes Multidrug Resistance and a Stem-like Phenotype in Immune Edited Tumor Cells. <i>Cancer Research</i> , 2017, 77, 5039-5053.	0.4	73
25	Clusterin induces matrix metalloproteinase-9 expression via ERK1/2 and PI3K/Akt/NF- $\kappa$ B pathways in monocytes/macrophages. <i>Journal of Leukocyte Biology</i> , 2011, 90, 761-769.	1.5	72
26	BLT2 promotes the invasion and metastasis of aggressive bladder cancer cells through a reactive oxygen species-linked pathway. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1072-1081.	1.3	71
27	Korean red ginseng ( <i>Panax ginseng</i> ) ameliorates type 1 diabetes and restores immune cell compartments. <i>Journal of Ethnopharmacology</i> , 2012, 144, 225-233.	2.0	71
28	Blockade of T Cell Activation Using a Surface-Linked Single-Chain Antibody to CTLA-4 (CD152). <i>Journal of Immunology</i> , 2000, 164, 4433-4442.	0.4	69
29	Defective Localization With Impaired Tumor Cytotoxicity Contributes to the Immune Escape of NK Cells in Pancreatic Cancer Patients. <i>Frontiers in Immunology</i> , 2019, 10, 496.	2.2	69
30	Biodegradable Polyanhydrides as Encapsulation Layers for Transient Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 2000941.	7.8	67
31	Novel Streptavidin-Functionalized Silicon Nanowire Arrays for CD4+T Lymphocyte Separation. <i>Nano Letters</i> , 2010, 10, 2877-2883.	4.5	65
32	Hydrodynamic shear stress promotes epithelial-mesenchymal transition by downregulating ERK and GSK3 $\beta$ activities. <i>Breast Cancer Research</i> , 2019, 21, 6.	2.2	65
33	Metal microparticle $\alpha$ -Polymer composites as printable, bio/eco-resorbable conductive inks. <i>Materials Today</i> , 2018, 21, 207-215.	8.3	64
34	<i>Ex Vivo</i> Expansion of Highly Cytotoxic Human NK Cells by Cocultivation with Irradiated Tumor Cells for Adoptive Immunotherapy. <i>Cancer Research</i> , 2013, 73, 2598-2607.	0.4	60
35	Current Insights into Combination Therapies with MAPK Inhibitors and Immune Checkpoint Blockade. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2531.	1.8	56
36	HSP90A inhibition promotes anti-tumor immunity by reversing multi-modal resistance and stem-like property of immune-refractory tumors. <i>Nature Communications</i> , 2020, 11, 562.	5.8	54

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37	API5 Confers Tumoral Immune Escape through FGF2-Dependent Cell Survival Pathway. <i>Cancer Research</i> , 2014, 74, 3556-3566.	0.4	52
38	Gain of HIF-1 $\alpha$ under Normoxia in Cancer Mediates Immune Adaptation through the AKT/ERK and VEGFA Axes. <i>Clinical Cancer Research</i> , 2015, 21, 1438-1446.	3.2	46
39	Extracellular matrix and pulmonary hypertension: control of vascular smooth muscle cell contractility. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H76-H82.	1.5	45
40	Topical delivery of interleukin-13 antisense oligonucleotides with cationic elastic liposome for the treatment of atopic dermatitis. <i>Journal of Gene Medicine</i> , 2009, 11, 26-37.	1.4	45
41	Partial role of TLR4 as a receptor responding to damage-associated molecular pattern. <i>Immunology Letters</i> , 2009, 125, 31-39.	1.1	45
42	FK506 causes cellular and functional defects in human natural killer cells. <i>Journal of Leukocyte Biology</i> , 2010, 88, 1089-1097.	1.5	42
43	Basophil-derived IL-6 regulates TH17 cell differentiation and CD4 T cell immunity. <i>Scientific Reports</i> , 2017, 7, 41744.	1.6	41
44	HVEM, a cosignaling molecular switch, and its interactions with BTLA, CD160 and LIGHT. <i>Cellular and Molecular Immunology</i> , 2019, 16, 679-682.	4.8	37
45	Polyethylenimine-based antisense oligodeoxynucleotides of IL-4 suppress the production of IL-4 in a murine model of airway inflammation. <i>Journal of Gene Medicine</i> , 2006, 8, 314-323.	1.4	35
46	Enhancement of DC vaccine potency by activating the PI3K/AKT pathway with a small interfering RNA targeting PTEN. <i>Immunology Letters</i> , 2010, 134, 47-54.	1.1	34
47	SLC45A2: A Melanoma Antigen with High Tumor Selectivity and Reduced Potential for Autoimmune Toxicity. <i>Cancer Immunology Research</i> , 2017, 5, 618-629.	1.6	34
48	Homotypic NK cell-to-cell communication controls cytokine responsiveness of innate immune NK cells. <i>Scientific Reports</i> , 2014, 4, 7157.	1.6	33
49	Alteration of cytokine profiles in mice exposed to chronic low-dose ionizing radiation. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 644-649.	1.0	32
50	Augmentation of natural cytotoxicity by chronic low-dose ionizing radiation in murine natural killer cells primed by IL-2. <i>Journal of Radiation Research</i> , 2012, 53, 823-829.	0.8	32
51	Mitochondrial reprogramming via ATP5H loss promotes multimodal cancer therapy resistance. <i>Journal of Clinical Investigation</i> , 2018, 128, 4098-4114.	3.9	31
52	Genetically modified Bifidobacterium displaying Salmonella-antigen protects mice from lethal challenge of Salmonella Typhimurium in a murine typhoid fever model. <i>Vaccine</i> , 2010, 28, 6684-6691.	1.7	30
53	Targeting Cyclin D-CDK4/6 Sensitizes Immune-Refractory Cancer by Blocking the SCP3 $\beta$ -NANOG Axis. <i>Cancer Research</i> , 2018, 78, 2638-2653.	0.4	30
54	Homotypic Cell to Cell Cross-talk Among Human Natural Killer Cells Reveals Differential and Overlapping Roles of 2B4 and CD2. <i>Journal of Biological Chemistry</i> , 2010, 285, 41755-41764.	1.6	29

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55	A polymeric conjugate foreignizing tumor cells for targeted immunotherapy in vivo. <i>Journal of Controlled Release</i> , 2015, 199, 98-105.	4.8	29
56	CD160 serves as a negative regulator of NKT cells in acute hepatic injury. <i>Nature Communications</i> , 2019, 10, 3258.	5.8	29
57	Isolation and expansion of synovial CD34 <sup>+</sup> CD44 <sup>+</sup> CD90 <sup>+</sup> mesenchymal stem cells: comparison of an enzymatic method and a direct explant technique. <i>Connective Tissue Research</i> , 2011, 52, 226-234.	1.1	27
58	Sustained Type I Interferon Reinforces NK Cell-Mediated Cancer Immunosurveillance during Chronic Virus Infection. <i>Cancer Immunology Research</i> , 2019, 7, 584-599.	1.6	27
59	Differential expression of immune-associated cancer regulatory genes in low- versus high-dose-rate irradiated AKR/J mice. <i>Genomics</i> , 2011, 97, 358-363.	1.3	26
60	Single wall carbon nanotube electrode system capable of quantitative detection of CD4 <sup>+</sup> T cells. <i>Biosensors and Bioelectronics</i> , 2017, 90, 238-244.	5.3	26
61	Unusual immunophenotype of CD8 <sup>+</sup> T cells in familial hemophagocytic lymphohistiocytosis. <i>Blood</i> , 2004, 104, 2007-2009.	0.6	25
62	LC3B upregulation by NANOG promotes immune resistance and stem-like property through hyperactivation of EGFR signaling in immune-refractory tumor cells. <i>Autophagy</i> , 2021, 17, 1978-1997.	4.3	25
63	GM-CSF-loaded chitosan hydrogel as an immunoadjuvant enhances antigen-specific immune responses with reduced toxicity. <i>BMC Immunology</i> , 2014, 15, 48.	0.9	22
64	Upregulation of Fas and downregulation of CD94/NKG2A inhibitory receptors on circulating natural killer cells in patients with new-onset psoriasis. <i>British Journal of Dermatology</i> , 2009, 161, 281-288.	1.4	21
65	Impact of chronicity of injury on the proportion of mesenchymal stromal cells derived from anterior cruciate ligaments. <i>Cytotherapy</i> , 2014, 16, 586-598.	0.3	20
66	Multi-cellular natural killer (NK) cell clusters enhance NK cell activation through localizing IL-2 within the cluster. <i>Scientific Reports</i> , 2017, 7, 40623.	1.6	20
67	Hypoxia-Driven HIF-1 $\alpha$ Activation Reprograms Pre-Activated NK Cells towards Highly Potent Effector Phenotypes via ERK/STAT3 Pathways. <i>Cancers</i> , 2021, 13, 1904.	1.7	20
68	IL-6 and IL-10 Levels, Rather Than Viral Load and Neutralizing Antibody Titers, Determine the Fate of Patients With Severe Fever With Thrombocytopenia Syndrome Virus Infection in South Korea. <i>Frontiers in Immunology</i> , 2021, 12, 711847.	2.2	20
69	Electronic transport characteristics of electrolyte-gated conducting polyaniline nanowire field-effect transistors. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	17
70	A possible mechanism of impaired NK cytotoxicity in cancer patients: Down-regulation of DAP10 by TGF- $\beta$ 1. <i>Tumori</i> , 2011, 97, 350-357.	0.6	17
71	Necrotising fasciitis in both calves caused by <i>Aeromonas caviae</i> following aesthetic liposuction. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010, 63, e695-e698.	0.5	16
72	3,2 <sup>sup</sup> -Dihydroxyflavone-Treated Pluripotent Stem Cells Show Enhanced Proliferation, Pluripotency Marker Expression, and Neuroprotective Properties. <i>Cell Transplantation</i> , 2015, 24, 1511-1532.	1.2	16

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73	Effect of Donor Age on the Proportion of Mesenchymal Stem Cells Derived from Anterior Cruciate Ligaments. PLoS ONE, 2015, 10, e0117224.	1.1	16
74	Chikusetsusaponin IVa methyl ester induces cell cycle arrest by the inhibition of nuclear translocation of $\beta$ -catenin in HCT116 cells. Biochemical and Biophysical Research Communications, 2015, 459, 591-596.	1.0	16
75	Molecular mechanisms underlying calcium current modulation by nociceptin. NeuroReport, 2004, 15, 2205-2209.	0.6	15
76	Suppression of human anti-porcine natural killer cell xenogeneic responses by combinations of monoclonal antibodies specific to CD2 and NKG2D and extracellular signal-regulated kinase inhibitor. Immunology, 2010, 130, 545-555.	2.0	14
77	Innate lymphoid cells facilitate NK cell development through a lymphotoxin-mediated stromal microenvironment. Journal of Experimental Medicine, 2014, 211, 1421-1431.	4.2	14
78	Tussilagonone-induced Nrf2 pathway activation protects HepG2 cells from oxidative injury. Food and Chemical Toxicology, 2017, 108, 120-127.	1.8	14
79	Enzyme precipitate coatings of lipase on polymer nanofibers. Bioprocess and Biosystems Engineering, 2011, 34, 841-847.	1.7	13
80	Methylation of eukaryotic elongation factor 2 induced by basic fibroblast growth factor via mitogen-activated protein kinase. Experimental and Molecular Medicine, 2011, 43, 550.	3.2	12
81	Clusterin synergizes with IL-2 for the expansion and IFN- $\gamma$ production of natural killer cells. Journal of Leukocyte Biology, 2010, 88, 955-963.	1.5	11
82	Intravenous injection of irradiated tumor cell vaccine carrying oncolytic adenovirus suppressed the growth of multiple lung tumors in a mouse squamous cell carcinoma model. Journal of Gene Medicine, 2011, 13, 353-361.	1.4	11
83	Single Step Isolation and Activation of Primary CD3 <sup>+</sup> T Lymphocytes Using Alcohol-Dispersed Electrospun Magnetic Nanofibers. Nano Letters, 2012, 12, 4018-4024.	4.5	11
84	Innate immunity against Legionella pneumophila during pulmonary infections in mice. Archives of Pharmacal Research, 2017, 40, 131-145.	2.7	10
85	Labeling of macrophage cell using biocompatible magnetic nanoparticles. Journal of Applied Physics, 2011, 109, 07B309.	1.1	9
86	Ethanol-Dispersed Polymer Nanofibers as a Highly Selective Cell Isolation and Release Platform for CD4 <sup>+</sup> T Lymphocytes. Advanced Functional Materials, 2012, 22, 4448-4455.	7.8	9
87	The nuclear 16-kD protein methylation increases in the early period of liver regeneration in a hepatectomized rat. Experimental and Molecular Medicine, 2004, 36, 563-571.	3.2	8
88	The Anti-apoptotic Effect of Ghrelin on Restraint Stress-Induced Thymus Atrophy in Mice. Immune Network, 2016, 16, 242.	1.6	8
89	A combined lymphokine-activated killer (LAK) cell immunotherapy and adenovirus-p53 gene therapy for head and neck squamous cell carcinoma. Anticancer Research, 2014, 34, 3365-70.	0.5	8
90	Tyrosine phosphatase and cytochrome P450 activity are critical in regulating store-operated calcium channels in human fibroblasts. Experimental and Molecular Medicine, 2006, 38, 703-717.	3.2	7

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91	Unidirectional signaling triggered through 2B4 (CD244), not CD48, in murine NK cells. <i>Journal of Leukocyte Biology</i> , 2010, 88, 707-714.	1.5	7
92	Igalan induces detoxifying enzymes mediated by the Nrf2 pathway in HepG2 cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2019, 33, e22297.	1.4	7
93	Targeting TCTP sensitizes tumor to T cell-mediated therapy by reversing immune-refractory phenotypes. <i>Nature Communications</i> , 2022, 13, 2127.	5.8	7
94	Human Ferritin Platform and Its Optimized Structures to Enhance Anti-Cancer Immunity. <i>Advanced Therapeutics</i> , 2021, 4, 2000208.	1.6	6
95	Lymph node fibroblastic reticular cells regulate differentiation and function of CD4 T cells via CD25. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	6
96	Preparation of sustained-release microspheres of phenylpropanolamine HCl and their release characteristics. <i>Archives of Pharmacal Research</i> , 1990, 13, 293-297.	2.7	4
97	NKG2D ligation relieves 2B4-mediated NK cell self-tolerance in mice. <i>European Journal of Immunology</i> , 2014, 44, 1802-1813.	1.6	4
98	Increased methylation of the cytosolic 20-kD protein is accompanied by liver regeneration in a hepatectomized rat. <i>Experimental and Molecular Medicine</i> , 2004, 36, 85-92.	3.2	3
99	Ectopic Expression of Human Thymosin $\beta$ 4 Confers Resistance to <i>Legionella pneumophila</i> during Pulmonary and Systemic Infection in Mice. <i>Infection and Immunity</i> , 2021, 89, .	1.0	3
100	Cell Separation: Ethanol-Dispersed Polymer Nanofibers as a Highly Selective Cell Isolation and Release Platform for CD4 <sup>+</sup> T Lymphocytes ( <i>Adv. Funct. Mater.</i> 21/2012). <i>Advanced Functional Materials</i> , 2012, 22, 4447-4447.	7.8	0