

# Sang-Soo Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

5,213  
citations

94433

37  
h-index

95266

68  
g-index

114  
all docs

114  
docs citations

114  
times ranked

8339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic miRNA and siRNA: Moving from Bench to Clinic as Next Generation Medicine. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 132-143.	5.1	600
2	Development of epitope-based peptide vaccine against novel coronavirus 2019 (SARS-CoV-2): Immunoinformatics approach. <i>Journal of Medical Virology</i> , 2020, 92, 618-631.	5.0	315
3	Therapeutic advances of miRNAs: A preclinical and clinical update. <i>Journal of Advanced Research</i> , 2021, 28, 127-138.	9.5	244
4	Biomolecule-Mediated Synthesis of Selenium Nanoparticles using Dried <i>Vitis vinifera</i> (Raisin) Extract. <i>Molecules</i> , 2014, 19, 2761-2770.	3.8	231
5	Zebrafish: A complete animal model to enumerate the nanoparticle toxicity. <i>Journal of Nanobiotechnology</i> , 2016, 14, 65.	9.1	231
6	Interplay between Cartilage and Subchondral Bone Contributing to Pathogenesis of Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2013, 14, 19805-19830.	4.1	224
7	Nanoparticle based insulin delivery system: the next generation efficient therapy for Type 1 diabetes. <i>Journal of Nanobiotechnology</i> , 2015, 13, 74.	9.1	145
8	Advances in nanocarriers enabled brain targeted drug delivery across blood brain barrier. <i>International Journal of Pharmaceutics</i> , 2019, 559, 360-372.	5.2	132
9	Application of Bioactive Quercetin in Oncotherapy: From Nutrition to Nanomedicine. <i>Molecules</i> , 2016, 21, 108.	3.8	127
10	CRISPR-Cas9: A Preclinical and Clinical Perspective for the Treatment of Human Diseases. <i>Molecular Therapy</i> , 2021, 29, 571-586.	8.2	124
11	Probable Molecular Mechanism of Remdesivir for the Treatment of COVID-19: Need to Know More. <i>Archives of Medical Research</i> , 2020, 51, 585-586.	3.3	110
12	Quercetin induces apoptosis and cell cycle arrest in triple-negative breast cancer cells through modulation of Foxo3a activity. <i>Korean Journal of Physiology and Pharmacology</i> , 2017, 21, 205.	1.2	109
13	Repurposing Drugs, Ongoing Vaccine, and New Therapeutic Development Initiatives Against COVID-19. <i>Frontiers in Pharmacology</i> , 2020, 11, 1258.	3.5	91
14	The Drug Repurposing for COVID-19 Clinical Trials Provide Very Effective Therapeutic Combinations: Lessons Learned From Major Clinical Studies. <i>Frontiers in Pharmacology</i> , 2021, 12, 704205.	3.5	89
15	Review of Prospects of Biological Fluid Biomarkers in Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 601.	4.1	88
16	The novel strategies for next-generation cancer treatment: miRNA combined with chemotherapeutic agents for the treatment of cancer. <i>Oncotarget</i> , 2018, 9, 10164-10174.	1.8	86
17	miRNAs in Alzheimer Disease - A Therapeutic Perspective. <i>Current Alzheimer Research</i> , 2017, 14, 1198-1206.	1.4	82
18	Tocilizumab: A Therapeutic Option for the Treatment of Cytokine Storm Syndrome in COVID-19. <i>Archives of Medical Research</i> , 2020, 51, 595-597.	3.3	81

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19	From COVID-19 to Cancer mRNA Vaccines: Moving From Bench to Clinic in the Vaccine Landscape. <i>Frontiers in Immunology</i> , 2021, 12, 679344.	4.8	74
20	A Detailed Overview of Immune Escape, Antibody Escape, Partial Vaccine Escape of SARS-CoV-2 and Their Emerging Variants With Escape Mutations. <i>Frontiers in Immunology</i> , 2022, 13, 801522.	4.8	73
21	MicroRNAs mediated regulation of MAPK signaling pathways in chronic myeloid leukemia. <i>Oncotarget</i> , 0, 7, 42683-42697.	1.8	72
22	Revision Total Hip Arthroplasty in Hip Joints With Metallosis. <i>Journal of Arthroplasty</i> , 2005, 20, 568-573.	3.1	70
23	Immunoinformatics approach to understand molecular interaction between multi-epitopic regions of SARS-CoV-2 spike-protein with TLR4/MD-2 complex. <i>Infection, Genetics and Evolution</i> , 2020, 85, 104587.	2.3	68
24	The Interplay among miRNAs, Major Cytokines, and Cancer-Related Inflammation. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 20, 606-620.	5.1	68
25	Effect of Ultrasonographically Guided Axillary Nerve Block Combined With Suprascapular Nerve Block in Arthroscopic Rotator Cuff Repair: A Randomized Controlled Trial. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014, 30, 906-914.	2.7	67
26	The effect of TNF $\alpha$ secreted from macrophages activated by titanium particles on osteogenic activity regulated by WNT/BMP signaling in osteoprogenitor cells. <i>Biomaterials</i> , 2012, 33, 4251-4263.	11.4	64
27	COVID-19: Consider IL-6 receptor antagonist for the therapy of cytokine storm syndrome in SARS-CoV-2 infected patients. <i>Journal of Medical Virology</i> , 2020, 92, 2260-2262.	5.0	62
28	Evolution, Mode of Transmission, and Mutational Landscape of Newly Emerging SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0114021.	4.1	58
29	A SARS-CoV-2 vaccine candidate: In-silico cloning and validation. <i>Informatics in Medicine Unlocked</i> , 2020, 20, 100394.	3.4	55
30	Roles of Phosphatidylinositol 3-Kinase and Rac in the Nuclear Signaling by Tumor Necrosis Factor- $\alpha$ in Rat-2 Fibroblasts. <i>Journal of Biological Chemistry</i> , 1999, 274, 24372-24377.	3.4	54
31	Methoxy Poly(ethylene glycol)-Poly(lactide) Nanoparticles Encapsulating Quercetin Act as an Effective Anticancer Agent by Inducing Apoptosis in Breast Cancer. <i>Pharmaceutical Research</i> , 2015, 32, 723-735.	3.5	54
32	Consider TLR5 for new therapeutic development against COVID-19. <i>Journal of Medical Virology</i> , 2020, 92, 2314-2315.	5.0	54
33	miRNA-Regulated Key Components of Cytokine Signaling Pathways and Inflammation in Rheumatoid Arthritis. <i>Medicinal Research Reviews</i> , 2016, 36, 425-439.	10.5	53
34	Extensive Partnership, Collaboration, and Teamwork is Required to Stop the COVID-19 Outbreak. <i>Archives of Medical Research</i> , 2020, 51, 728-730.	3.3	52
35	Antimicrobial Potential of Silver Nanoparticles Synthesized Using Medicinal Herb <i>Coptidis rhizome</i> . <i>Molecules</i> , 2018, 23, 2268.	3.8	47
36	The current second wave and COVID-19 vaccination status in India. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 1-4.	4.1	47

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37	Regulation of Wnt signaling activity for growth suppression induced by quercetin in 4T1 murine mammary cancer cells. <i>International Journal of Oncology</i> , 2013, 43, 1319-1325.	3.3	45
38	DNA barcoding to fishes: current status and future directions. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 2744-2752.	0.7	43
39	The crucial role and regulations of miRNAs in zebrafish development. <i>Protoplasma</i> , 2017, 254, 17-31.	2.1	39
40	A Novel Multi-Epitopic Peptide Vaccine Candidate Against <i>Helicobacter pylori</i> : In-Silico Identification, Design, Cloning and Validation Through Molecular Dynamics. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 1149-1166.	1.9	37
41	Third-Generation Ceramic-on-Ceramic Bearing Surfaces in Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2009, 24, 1231-1235.	3.1	33
42	Next Generation Delivery System for Proteins and Genes of Therapeutic Purpose: Why and How?. <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	31
43	D614G mutation eventuates in all VOI and VOC in SARS-CoV-2: Is it part of the positive selection pioneered by Darwin?. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 237-241.	5.1	30
44	Designing an effective therapeutic siRNA to silence RdRp gene of SARS-CoV-2. <i>Infection, Genetics and Evolution</i> , 2021, 93, 104951.	2.3	29
45	Role of hyaluronic acid and phospholipid in the lubrication of a cobalt-chromium head for total hip arthroplasty. <i>Biointerphases</i> , 2014, 9, 031007.	1.6	26
46	Immunoinformatics Approach for the Identification and Characterization of T Cell and B Cell Epitopes towards the Peptide-Based Vaccine against SARS-CoV-2. <i>Archives of Medical Research</i> , 2021, 52, 362-370.	3.3	24
47	Risk Factors of Heterotopic Ossification Following Total Hip Arthroplasty in Patients With Ankylosing Spondylitis. <i>Journal of Arthroplasty</i> , 2015, 30, 2304-2307.	3.1	23
48	Suppression of osteogenic activity by regulation of WNT and BMP signaling during titanium particle induced osteolysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 912-926.	4.0	23
49	Bacterial Compatibility/Toxicity of Biogenic Silica (b-SiO <sub>2</sub> ) Nanoparticles Synthesized from Biomass Rice Husk Ash. <i>Nanomaterials</i> , 2019, 9, 1440.	4.1	23
50	Effects of arthroscopy-guided suprascapular nerve block combined with ultrasound-guided interscalene brachial plexus block for arthroscopic rotator cuff repair: a randomized controlled trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 2121-2128.	4.2	22
51	Asian-Origin Approved COVID-19 Vaccines and Current Status of COVID-19 Vaccination Program in Asia: A Critical Analysis. <i>Vaccines</i> , 2021, 9, 600.	4.4	22
52	Recent research progress on circular RNAs: Biogenesis, properties, functions, and therapeutic potential. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 355-371.	5.1	22
53	Ongoing Clinical Trials of Vaccines to Fight against COVID-19 Pandemic. <i>Immune Network</i> , 2021, 21, e5.	3.6	21
54	A Next-Generation Vaccine Candidate Using Alternative Epitopes to Protect against Wuhan and All Significant Mutant Variants of SARS-CoV-2: An Immunoinformatics Approach. , 2021, 12, 2173.		20

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55	Roles of Rac and cytosolic phospholipase A2 in the intracellular signalling in response to titanium particles. <i>Cellular Signalling</i> , 2003, 15, 339-345.	3.6	19
56	Torsional malalignment, how much significant in the trochanteric fractures?. <i>Injury</i> , 2015, 46, 2196-2200.	1.7	18
57	SARS-CoV-2 protein drug targets landscape: a potential pharmacological insight view for the new drug development. <i>Expert Review of Clinical Pharmacology</i> , 2021, 14, 225-237.	3.1	18
58	SARS-CoV-2 Brazil variants in Latin America: More serious research urgently needed on public health and vaccine protection. <i>Annals of Medicine and Surgery</i> , 2021, 66, 102428.	1.1	18
59	Recent Trends of Polymer Mediated Liposomal Gene Delivery System. <i>BioMed Research International</i> , 2014, 2014, 1-15.	1.9	17
60	Circulating miRNA in Atherosclerosis: A Clinical Biomarker and Early Diagnostic Tool. <i>Current Molecular Medicine</i> , 2022, 22, 250-262.	1.3	17
61	Understanding Gene Expression and Transcriptome Profiling of COVID-19: An Initiative Towards the Mapping of Protective Immunity Genes Against SARS-CoV-2 Infection. <i>Frontiers in Immunology</i> , 2021, 12, 724936.	4.8	17
62	Revision Total Hip Arthroplasty for Pelvic Osteolysis With Well-Fixed Cementless Cup. <i>Journal of Arthroplasty</i> , 2007, 22, 987-992.	3.1	16
63	Anti-inflammatory effects of traditional mixed extract of medicinal herbs (MEMH) on monosodium urate crystal-induced gouty arthritis. <i>Chinese Journal of Natural Medicines</i> , 2017, 15, 561-575.	1.3	16
64	Nobiletin Inhibits Non-Small-Cell Lung Cancer by Inactivating WNT/ $\beta$ -Catenin Signaling through Downregulating miR-15-5p. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-9.	1.2	16
65	Effects of Hyaluronic Acid and $\gamma$ -Globulin Concentrations on the Frictional Response of Human Osteoarthritic Articular Cartilage. <i>PLoS ONE</i> , 2014, 9, e112684.	2.5	15
66	Bioengineering of Novel Non-Replicating mRNA (NRM) and Self-Amplifying mRNA (SAM) Vaccine Candidates Against SARS-CoV-2 Using Immunoinformatics Approach. <i>Molecular Biotechnology</i> , 2022, 64, 510-525.	2.4	15
67	Risk of fracture and pneumonia from acid suppressive drugs. <i>World Journal of Methodology</i> , 2011, 1, 15.	3.5	14
68	Frictional response of normal and osteoarthritic articular cartilage in human femoral head. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 129-137.	1.8	14
69	Computer aided novel antigenic epitopes selection from the outer membrane protein sequences of <i>Aeromonas hydrophila</i> and its analyses. <i>Infection, Genetics and Evolution</i> , 2020, 82, 104320.	2.3	14
70	Antimicrobial Potential of Silver Nanoparticles Synthesized Using Medicinal Herb <i>Coptidis rhizome</i> . <i>Molecules</i> , 2018, 23, 2269.	3.8	12
71	Formulation and Application of Biodegradable Nanoparticles Based Biopharmaceutical Delivery - An Efficient Delivery System. <i>Current Pharmaceutical Design</i> , 2016, 22, 3020-3033.	1.9	12
72	Lysophosphatidic acid enhances breast cancer cells-mediated osteoclastogenesis. <i>Korean Journal of Physiology and Pharmacology</i> , 2018, 22, 503.	1.2	11

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73	Recent developments and strategies of Ebola virus vaccines. <i>Current Opinion in Pharmacology</i> , 2021, 60, 46-53.	3.5	11
74	A Paradigm Shift in the Combination Changes of SARS-CoV-2 Variants and Increased Spread of Delta Variant (B.1.617.2) across the World. , 2022, 13, 927.		11
75	Effect of tip geometry of atomic force microscope on mechanical responses of bovine articular cartilage and agarose gel. <i>International Journal of Precision Engineering and Manufacturing</i> , 2010, 11, 129-136.	2.2	10
76	Effect of protein concentrations of bovine serum albumin and $\gamma$ -globulin on the frictional response of a cobalt-chromium femoral head. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1323-1330.	3.6	10
77	Understanding the molecular interaction of human argonaute $\epsilon$ 2 and miR $\alpha$ complex: A molecular dynamics approach. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 19915-19924.	2.6	10
78	Fibroblast-Like-Synoviocytes Mediate Secretion of Pro-Inflammatory Cytokines via ERK and JNK MAPKs in Ti-Particle-Induced Osteolysis. <i>Materials</i> , 2020, 13, 3628.	2.9	10
79	Continent-wide evolutionary trends of emerging SARS-CoV-2 variants: dynamic profiles from Alpha to Omicron. <i>GeroScience</i> , 2022, 44, 2371-2392.	4.6	9
80	The C-reactive protein to albumin ratio predicts postoperative complication in patients who undergo gastrectomy for gastric cancer. <i>Heliyon</i> , 2020, 6, e04220.	3.2	8
81	Identification and Design of a Next-Generation Multi Epitopes Bases Peptide Vaccine Candidate Against Prostate Cancer: An In Silico Approach. <i>Cell Biochemistry and Biophysics</i> , 2020, 78, 495-509.	1.8	8
82	Determination of k-mer density in a DNA sequence and subsequent cluster formation algorithm based on the application of electronic filter. <i>Scientific Reports</i> , 2021, 11, 13701.	3.3	8
83	Differential Expression Patterns of Rspodin Family and Leucine-Rich Repeat-Containing G-Protein Coupled Receptors in Chondrocytes and Osteoblasts. <i>Cell Journal</i> , 2021, 22, 437-449.	0.2	8
84	Prevalence of rotator cuff diseases in adults older than 40 years in or near Chuncheon city, Korea. <i>Clinics in Shoulder and Elbow</i> , 2020, 23, 125-130.	2.0	8
85	Recent progress of circular RNAs in different types of human cancer: Technological landscape, clinical opportunities and challenges (Review). <i>International Journal of Oncology</i> , 2022, 60, .	3.3	8
86	Interaction between miRNAs and signaling cascades of Wnt pathway in chronic lymphocytic leukemia. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 4654-4666.	2.6	7
87	Response to: Status of Remdesivir: Not Yet Beyond Question!. <i>Archives of Medical Research</i> , 2021, 52, 104-106.	3.3	7
88	MicroRNAs: Possible Regulatory Molecular Switch Controlling the BBB Microenvironment. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 933-936.	5.1	7
89	Bipolar Hemiarthroplasty for Hip Fractures in Patients Aged over 90 Years - The Factors Influencing the Postoperative Mortality -. <i>The Journal of the Korean Hip Society</i> , 2010, 22, 283-290.	0.2	7
90	Comparative genomics, evolutionary epidemiology, and RBD-hACE2 receptor binding pattern in B.1.1.7 (Alpha) and B.1.617.2 (Delta) related to their pandemic response in UK and India. <i>Infection, Genetics and Evolution</i> , 2022, 101, 105282.	2.3	7

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91	Computational Biophysical, Biochemical, and Evolutionary Signature of Human R-Spondin Family Proteins, the Member of Canonical Wnt/ $\beta$ -Catenin Signaling Pathway. <i>BioMed Research International</i> , 2014, 2014, 1-22.	1.9	6
92	Lessons Learned from Cutting-Edge Immunoinformatics on Next-Generation COVID-19 Vaccine Research. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 2303-2311.	1.9	6
93	Midterm outcome of fourth-generation ceramic-on-ceramic bearing surfaces in revision total hip arthroplasty. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901878391.	1.0	5
94	Influence of single nucleotide polymorphisms (SNPs) in genetic susceptibility towards periprosthetic osteolysis. <i>Genes and Genomics</i> , 2019, 41, 1113-1125.	1.4	5
95	SARS-CoV-2 and other human coronaviruses: Mapping of protease recognition sites, antigenic variation of spike protein and their grouping through molecular phylogenetics. <i>Infection, Genetics and Evolution</i> , 2021, 89, 104729.	2.3	5
96	Tribological changes in the articular cartilage of a human femoral head with avascular necrosis. <i>Biointerphases</i> , 2015, 10, 021004.	1.6	4
97	Sclerostin-Mediated Impaired Osteogenesis by Fibroblast-Like Synoviocytes in the Particle-Induced Osteolysis Model. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 666295.	3.5	4
98	TN strain proteome mediated therapeutic target mapping and multi-epitopic peptide-based vaccine development for <i>Mycobacterium leprae</i> . <i>Infection, Genetics and Evolution</i> , 2022, 99, 105245.	2.3	4
99	Insight into Evolution and Conservation Patterns of B1-Subfamily Members of GPCR. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 2505-2517.	1.9	3
100	COVID-19 vaccine: Challenges in developing countries and India's initiatives. <i>Infezioni in Medicina</i> , 2021, 29, 165-166.	1.1	3
101	Quantitative analysis of the perimeniscal position of the inferior lateral genicular artery (ILGA): magnetic resonance imaging study. <i>Surgical and Radiologic Anatomy</i> , 2018, 40, 823-828.	1.2	2
102	A Sustainable Ambulance Operation Model in a Low-Resource Country (the Democratic Republic of) $T_j ETQq0 0 0 rgBT /Overlock 10 Tf 5$	0.8	2
103	Design of a Lumbar Interspinous Fixation Device for Minimally Invasive Surgery and Spine Motion Stabilization. <i>Journal of Medical and Biological Engineering</i> , 2020, 40, 1-10.	1.8	2
104	Optimization of a lumbar interspinous fixation device for the lumbar spine with degenerative disc disease. <i>PLoS ONE</i> , 2022, 17, e0265926.	2.5	2
105	Inflammatory Periprosthetic Bone Loss. , 2012, , .		1
106	Effect of Wnt3a on Keratinocytes Utilizing in Vitro and Bioinformatics Analysis. <i>International Journal of Molecular Sciences</i> , 2014, 15, 5472-5495.	4.1	1
107	Understanding the molecular evolution of tiger diversity through DNA barcoding marker ND4 and NADH dehydrogenase complex using computational biology. <i>Genes and Genomics</i> , 2021, 43, 759-773.	1.4	1
108	Roles of Cellular and Molecular Targets of Wear Debris in Periprosthetic Osteolysis. , 2007, , 19-30.		1

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109	Micro-Environmental Signature of The Interactions between Druggable Target Protein, Dipeptidyl Peptidase-IV, and Anti-Diabetic Drugs. Cell Journal, 2017, 19, 65-83.	0.2	1
110	Evaluation and Designing of Epitopic-Peptide Vaccine Against Bunyamwera orthobunyavirus Using M-Polyprotein Target Sequences. International Journal of Peptide Research and Therapeutics, 2022, 28, 5.	1.9	1
111	Anterior Approaches in Hip Surgery. The Journal of the Korean Hip Society, 2011, 23, 95-102.	0.2	0
112	Comparative Analysis and Molecular Evolution of Class I PI3K Regulatory Subunit p85 $\hat{\pm}$ Reveal the Structural Similarity Between nSH2 and cSH2 Domains. International Journal of Peptide Research and Therapeutics, 2020, 26, 2555-2569.	1.9	0
113	Exploring the status of global terrestrial and aquatic microbial diversity through "Biodiversity Informatics"™. Environment, Development and Sustainability, 0, , .	5.0	0