

# 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	Circulating miRNA in Atherosclerosis: A Clinical Biomarker and Early Diagnostic Tool. <i>Current Molecular Medicine</i> , 2022, 22, 250-262.	1.3	17
2	Evaluation and Designing of Epitopic-Peptide Vaccine Against Bunyamwera orthobunyavirus Using M-Polyprotein Target Sequences. <i>International Journal of Peptide Research and Therapeutics</i> , 2022, 28, 5.	1.9	1
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Therapeutic advances of miRNAs: A preclinical and clinical update. <i>Journal of Advanced Research</i> , 2021, 28, 127-138.	9.5	244
12	Response to: Status of Remdesivir: Not Yet Beyond Question!. <i>Archives of Medical Research</i> , 2021, 52, 104-106.	3.3	7
13	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
14	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
15	CRISPR-Cas9: A Preclinical and Clinical Perspective for the Treatment of Human Diseases. <i>Molecular Therapy</i> , 2021, 29, 571-586.	8.2	124
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	Evolution, Mode of Transmission, and Mutational Landscape of Newly Emerging SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0114021.	4.1	58
26	The current second wave and COVID-19 vaccination status in India. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 1-4.	4.1	47
27	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
28	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
29	Recent developments and strategies of Ebola virus vaccines. <i>Current Opinion in Pharmacology</i> , 2021, 60, 46-53.	3.5	11
30	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
31	Ongoing Clinical Trials of Vaccines to Fight against COVID-19 Pandemic. <i>Immune Network</i> , 2021, 21, e5.	3.6	21
32	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
33	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
34	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
35	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
36	COVID-19 vaccine: Challenges in developing countries and India's initiatives. <i>Infezioni in Medicina</i> , 2021, 29, 165-166.	1.1	3

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37	Nobiletin Inhibits Non-Small-Cell Lung Cancer by Inactivating WNT/ $\beta$ -Catenin Signaling through Downregulating miR-15-5p. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-9.	1.2	16
38	Design of a Lumbar Interspinous Fixation Device for Minimally Invasive Surgery and Spine Motion Stabilization. Journal of Medical and Biological Engineering, 2020, 40, 1-10.	1.8	2
39	Immunoinformatics approach to understand molecular interaction between multi-epitopic regions of SARS-CoV-2 spike-protein with TLR4/MD-2 complex. Infection, Genetics and Evolution, 2020, 85, 104587.	2.3	68
40	The C-reactive protein to albumin ratio predicts postoperative complication in patients who undergo gastrectomy for gastric cancer. Heliyon, 2020, 6, e04220.	3.2	8
41	A SARS-CoV-2 vaccine candidate: In-silico cloning and validation. Informatics in Medicine Unlocked, 2020, 20, 100394.	3.4	55
42	Repurposing Drugs, Ongoing Vaccine, and New Therapeutic Development Initiatives Against COVID-19. Frontiers in Pharmacology, 2020, 11, 1258.	3.5	91
43	Fibroblast-Like-Synoviocytes Mediate Secretion of Pro-Inflammatory Cytokines via ERK and JNK MAPKs in Ti-Particle-Induced Osteolysis. Materials, 2020, 13, 3628.	2.9	10
44	Consider TLR5 for new therapeutic development against COVID-19. Journal of Medical Virology, 2020, 92, 2314-2315.	5.0	54
45	Extensive Partnership, Collaboration, and Teamwork is Required to Stop the COVID-19 Outbreak. Archives of Medical Research, 2020, 51, 728-730.	3.3	52
46	COVID-19: Consider IL-6 receptor antagonist for the therapy of cytokine storm syndrome in SARS-CoV-2 infected patients. Journal of Medical Virology, 2020, 92, 2260-2262.	5.0	62
47	Tocilizumab: A Therapeutic Option for the Treatment of Cytokine Storm Syndrome in COVID-19. Archives of Medical Research, 2020, 51, 595-597.	3.3	81
48	Insight into Evolution and Conservation Patterns of B1-Subfamily Members of GPCR. International Journal of Peptide Research and Therapeutics, 2020, 26, 2505-2517.	1.9	3
49	Interaction between miRNAs and signaling cascades of Wnt pathway in chronic lymphocytic leukemia. Journal of Cellular Biochemistry, 2020, 121, 4654-4666.	2.6	7
50	Development of epitope-based peptide vaccine against novel coronavirus 2019 (SARS-CoV-2): Immunoinformatics approach. Journal of Medical Virology, 2020, 92, 618-631.	5.0	315
51	Comparative Analysis and Molecular Evolution of Class I PI3K Regulatory Subunit p85 $\alpha$ Reveal the Structural Similarity Between nSH2 and cSH2 Domains. International Journal of Peptide Research and Therapeutics, 2020, 26, 2555-2569.	1.9	0
52	Identification and Design of a Next-Generation Multi Epitopes Bases Peptide Vaccine Candidate Against Prostate Cancer: An In Silico Approach. Cell Biochemistry and Biophysics, 2020, 78, 495-509.	1.8	8
53	The Interplay among miRNAs, Major Cytokines, and Cancer-Related Inflammation. Molecular Therapy - Nucleic Acids, 2020, 20, 606-620.	5.1	68
54	Computer aided novel antigenic epitopes selection from the outer membrane protein sequences of Aeromonas hydrophila and its analyses. Infection, Genetics and Evolution, 2020, 82, 104320.	2.3	14

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55	Probable Molecular Mechanism of Remdesivir for the Treatment of COVID-19: Need to Know More. Archives of Medical Research, 2020, 51, 585-586.	3.3	110
56	MicroRNAs: Possible Regulatory Molecular Switch Controlling the BBB Microenvironment. Molecular Therapy - Nucleic Acids, 2020, 19, 933-936.	5.1	7
57	Prevalence of rotator cuff diseases in adults older than 40 years in or near Chuncheon city, Korea. Clinics in Shoulder and Elbow, 2020, 23, 125-130.	2.0	8
58	Understanding the molecular interaction of human argonaute2 and miR20a complex: A molecular dynamics approach. Journal of Cellular Biochemistry, 2019, 120, 19915-19924.	2.6	10
59	Influence of single nucleotide polymorphisms (SNPs) in genetic susceptibility towards periprosthetic osteolysis. Genes and Genomics, 2019, 41, 1113-1125.	1.4	5
60	Bacterial Compatibility/Toxicity of Biogenic Silica (b-SiO <sub>2</sub> ) Nanoparticles Synthesized from Biomass Rice Husk Ash. Nanomaterials, 2019, 9, 1440.	4.1	23
61	Advances in nanocarriers enabled brain targeted drug delivery across blood brain barrier. International Journal of Pharmaceutics, 2019, 559, 360-372.	5.2	132
62	Quantitative analysis of the perimeniscal position of the inferior lateral genicular artery (ILGA): magnetic resonance imaging study. Surgical and Radiologic Anatomy, 2018, 40, 823-828.	1.2	2
63	A Sustainable Ambulance Operation Model in a Low-Resource Country (the Democratic Republic of) Tj ETQq1 1 0.784314 rgBT /Overl 0.8	0.8	2
64	Lysophosphatidic acid enhances breast cancer cells-mediated osteoclastogenesis. Korean Journal of Physiology and Pharmacology, 2018, 22, 503.	1.2	11
65	Antimicrobial Potential of Silver Nanoparticles Synthesized Using Medicinal Herb Coptidis rhizome. Molecules, 2018, 23, 2269.	3.8	12
66	Antimicrobial Potential of Silver Nanoparticles Synthesized Using Medicinal Herb Coptidis rhizome. Molecules, 2018, 23, 2268.	3.8	47
67	The novel strategies for next-generation cancer treatment: miRNA combined with chemotherapeutic agents for the treatment of cancer. Oncotarget, 2018, 9, 10164-10174.	1.8	86
68	Midterm outcome of fourth-generation ceramic-on-ceramic bearing surfaces in revision total hip arthroplasty. Journal of Orthopaedic Surgery, 2018, 26, 230949901878391.	1.0	5
69	The crucial role and regulations of miRNAs in zebrafish development. Protoplasma, 2017, 254, 17-31.	2.1	39
70	Effects of arthroscopy-guided suprascapular nerve block combined with ultrasound-guided interscalene brachial plexus block for arthroscopic rotator cuff repair: a randomized controlled trial. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 2121-2128.	4.2	22
71	Suppression of osteogenic activity by regulation of WNT and BMP signaling during titanium particle induced osteolysis. Journal of Biomedical Materials Research - Part A, 2017, 105, 912-926.	4.0	23
72	Therapeutic miRNA and siRNA: Moving from Bench to Clinic as Next Generation Medicine. Molecular Therapy - Nucleic Acids, 2017, 8, 132-143.	5.1	600

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73	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
74	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
75	Review of Prospects of Biological Fluid Biomarkers in Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 601.	4.1	88
76	miRNAs in Alzheimer Disease - A Therapeutic Perspective. <i>Current Alzheimer Research</i> , 2017, 14, 1198-1206.	1.4	82
77	Micro-Environmental Signature of The Interactions between Druggable Target Protein, Dipeptidyl Peptidase-IV, and Anti-Diabetic Drugs. <i>Cell Journal</i> , 2017, 19, 65-83.	0.2	1
78	Application of Bioactive Quercetin in Oncotherapy: From Nutrition to Nanomedicine. <i>Molecules</i> , 2016, 21, 108.	3.8	127
79	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
80	Zebrafish: A complete animal model to enumerate the nanoparticle toxicity. <i>Journal of Nanobiotechnology</i> , 2016, 14, 65.	9.1	231
81	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
82	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
83	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
84	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
85	Tribological changes in the articular cartilage of a human femoral head with avascular necrosis. <i>Biointerphases</i> , 2015, 10, 021004.	1.6	4
86	Torsional malalignment, how much significant in the trochanteric fractures?. <i>Injury</i> , 2015, 46, 2196-2200.	1.7	18
87	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
88	Effects of Hyaluronic Acid and Î³-Globulin Concentrations on the Frictional Response of Human Osteoarthritic Articular Cartilage. <i>PLoS ONE</i> , 2014, 9, e112684.	2.5	15
89	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
90	Computational Biophysical, Biochemical, and Evolutionary Signature of Human R-Spondin Family Proteins, the Member of Canonical Wnt/Catenin Signaling Pathway. <i>BioMed Research International</i> , 2014, 2014, 1-22.	1.9	6

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91	Next Generation Delivery System for Proteins and Genes of Therapeutic Purpose: Why and How?. BioMed Research International, 2014, 2014, 1-11.	1.9	31
92	Recent Trends of Polymer Mediated Liposomal Gene Delivery System. BioMed Research International, 2014, 2014, 1-15.	1.9	17
93	Role of hyaluronic acid and phospholipid in the lubrication of a cobalt-chromium head for total hip arthroplasty. Biointerphases, 2014, 9, 031007.	1.6	26
94	Effect of Ultrasonographically Guided Axillary Nerve Block Combined With Suprascapular Nerve Block in Arthroscopic Rotator Cuff Repair: A Randomized Controlled Trial. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2014, 30, 906-914.	2.7	67
95	Biomolecule-Mediated Synthesis of Selenium Nanoparticles using Dried Vitis vinifera (Raisin) Extract. Molecules, 2014, 19, 2761-2770.	3.8	231
96	Interplay between Cartilage and Subchondral Bone Contributing to Pathogenesis of Osteoarthritis. International Journal of Molecular Sciences, 2013, 14, 19805-19830.	4.1	224
97	Frictional response of normal and osteoarthritic articular cartilage in human femoral head. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 129-137.	1.8	14
98	Regulation of Wnt signaling activity for growth suppression induced by quercetin in 4T1 murine mammary cancer cells. International Journal of Oncology, 2013, 43, 1319-1325.	3.3	45
99	Inflammatory Periprosthetic Bone Loss. , 2012, , .		1
100	Effect of protein concentrations of bovine serum albumin and $\gamma$ -globulin on the frictional response of a cobalt-chromium femoral head. Journal of Materials Science: Materials in Medicine, 2012, 23, 1323-1330.	3.6	10
101	The effect of TNF $\alpha$ secreted from macrophages activated by titanium particles on osteogenic activity regulated by WNT/BMP signaling in osteoprogenitor cells. Biomaterials, 2012, 33, 4251-4263.	11.4	64
102	Risk of fracture and pneumonia from acid suppressive drugs. World Journal of Methodology, 2011, 1, 15.	3.5	14
103	Anterior Approaches in Hip Surgery. The Journal of the Korean Hip Society, 2011, 23, 95-102.	0.2	0
104	Effect of tip geometry of atomic force microscope on mechanical responses of bovine articular cartilage and agarose gel. International Journal of Precision Engineering and Manufacturing, 2010, 11, 129-136.	2.2	10
105	Bipolar Hemiarthroplasty for Hip Fractures in Patients Aged over 90 Years - The Factors Influencing the Postoperative Mortality -. The Journal of the Korean Hip Society, 2010, 22, 283-290.	0.2	7
106	Third-Generation Ceramic-on-Ceramic Bearing Surfaces in Revision Total Hip Arthroplasty. Journal of Arthroplasty, 2009, 24, 1231-1235.	3.1	33
107	Revision Total Hip Arthroplasty for Pelvic Osteolysis With Well-Fixed Cementless Cup. Journal of Arthroplasty, 2007, 22, 987-992.	3.1	16
108	Roles of Cellular and Molecular Targets of Wear Debris in Periprosthetic Osteolysis. , 2007, , 19-30.		1

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109	Revision Total Hip Arthroplasty in Hip Joints With Metallosis. <i>Journal of Arthroplasty</i> , 2005, 20, 568-573.	3.1	70
110	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
111	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
112	MicroRNAs mediated regulation of MAPK signaling pathways in chronic myeloid leukemia. <i>Oncotarget</i> , 0, 7, 42683-42697.	1.8	72
113	Exploring the status of global terrestrial and aquatic microbial diversity through "Biodiversity Informatics". <i>Environment, Development and Sustainability</i> , 0, , .	5.0	0