

# Oscar K Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/111306/publications.pdf>

Version: 2024-02-01

81  
papers

3,945  
citations

270111

25  
h-index

145109

60  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functioning tailor-made 3D-printed vascular graft for hemodialysis. <i>Journal of Vascular Access</i> , 2024, 25, 244-253.	0.5	0
2	Demystifying the long noncoding RNA landscape of small EVs derived from human mesenchymal stromal cells. <i>Journal of Advanced Research</i> , 2022, 39, 73-88.	4.4	6
3	Letter to the Editor (Response) Re: Extracorporeal Shockwave Therapy in the Treatment of Trigger Finger: A Randomized Controlled Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2022, , .	0.5	0
4	Feasibility and Effect of a Wearable Motion Sensor Device in Facilitating In-Home Rehabilitation Program in Patients after Total Knee Arthroplasty: A Preliminary Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2433.	1.3	0
5	Application of a Deep Learning System in Pterygium Grading and Further Prediction of Recurrence with Slit Lamp Photographs. <i>Diagnostics</i> , 2022, 12, 888.	1.3	8
6	Associations between aging and second molar diseases in patients having adjacent impacted third molar extraction. <i>Journal of the Formosan Medical Association</i> , 2021, 120, 380-387.	0.8	4
7	Combination of mesenchymal stem cell-conditioned medium and botulinum toxin type A for treating human hypertrophic scars: Reply. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 407-447.	0.5	0
8	Alteration of 3D Matrix Stiffness Regulates Viscoelasticity of Human Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2441.	1.8	5
9	Revisit incidence of complications after impacted mandibular third molar extraction: A nationwide population-based cohort study. <i>PLoS ONE</i> , 2021, 16, e0246625.	1.1	14
10	Biomechanical evaluation of high tibial osteotomy plate with internal support block using finite element analysis. <i>PLoS ONE</i> , 2021, 16, e0247412.	1.1	2
11	Adipose-derived mesenchymal stem cells attenuate dialysis-induced peritoneal fibrosis by modulating macrophage polarization via interleukin-6. <i>Stem Cell Research and Therapy</i> , 2021, 12, 193.	2.4	26
12	Phenotypic alteration of macrophages during osteoarthritis: a systematic review. <i>Arthritis Research and Therapy</i> , 2021, 23, 110.	1.6	27
13	Extracorporeal Shockwave Therapy in the Treatment of Trigger Finger: A Randomized Controlled Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2021, 102, 2083-2090.e1.	0.5	8
14	Ginkgolide B monotherapy reverses osteoporosis by regulating oxidative stress-mediated bone homeostasis. <i>Free Radical Biology and Medicine</i> , 2021, 168, 234-246.	1.3	17
15	The Crosstalk between Mesenchymal Stem Cells and Macrophages in Bone Regeneration: A Systematic Review. <i>Stem Cells International</i> , 2021, 2021, 1-21.	1.2	37
16	Smartphone-Based Artificial Intelligence-Assisted Prediction for Eyelid Measurements: Algorithm Development and Observational Validation Study. <i>JMIR MHealth and UHealth</i> , 2021, 9, e32444.	1.8	12
17	Machine Learning Analysis of Time-Dependent Features for Predicting Adverse Events During Hemodialysis Therapy: Model Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e27098.	2.1	5
18	Patient-Specific Instrument Guided Double Chevron-Cut Distal Femur Osteotomy. <i>Journal of Personalized Medicine</i> , 2021, 11, 959.	1.1	0

#	ARTICLE	IF	CITATIONS
19	Molecular Mechanisms of Mesenchymal Stem Cell-Based Therapy in Acute Kidney Injury. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11406.	1.8	7
20	Deep Learning Application for Vocal Fold Disease Prediction Through Voice Recognition: Preliminary Development Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e25247.	2.1	30
21	Mechanical and chemical cues synergistically promote human venous smooth muscle cell osteogenesis through integrin $\alpha$ 1 $\beta$ ERK1/2 signaling: A cell model of hemodialysis fistula calcification. <i>FASEB Journal</i> , 2021, 35, e22042.	0.2	0
22	Benefits of opposite screw insertion technique in medial open-wedge high tibial osteotomy: A virtual biomechanical study. <i>Journal of Orthopaedic Translation</i> , 2020, 20, 31-36.	1.9	14
23	Combination of mesenchymal stem cell-conditioned medium and botulinum toxin type A for treating human hypertrophic scars. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 516-527.	0.5	21
24	The shift in macrophages polarisation after tendon injury: A systematic review. <i>Journal of Orthopaedic Translation</i> , 2020, 21, 24-34.	1.9	32
25	Cardiac Silhouette. <i>American Journal of the Medical Sciences</i> , 2020, 360, 75-76.	0.4	0
26	Prediction of the development of acute kidney injury following cardiac surgery by machine learning. <i>Critical Care</i> , 2020, 24, 478.	2.5	194
27	The Role of Paracrine Regulation of Mesenchymal Stem Cells in the Crosstalk With Macrophages in Musculoskeletal Diseases: A Systematic Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 587052.	2.0	10
28	Mesenchymal stromal cells pretreated with pro-inflammatory cytokines promote skin wound healing through VEGFC-mediated angiogenesis. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1218-1232.	1.6	40
29	The Anastomotic Angle of Hemodialysis Arteriovenous Fistula Is Associated With Flow Disturbance at the Venous Stenosis Location on Angiography. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 846.	2.0	14
30	Control of matrix stiffness promotes endodermal lineage specification by regulating SMAD2/3 via lncRNA LINC00458. <i>Science Advances</i> , 2020, 6, eaay0264.	4.7	45
31	Alteration of Young's modulus in mesenchymal stromal cells during osteogenesis measured by atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 827-832.	1.0	16
32	Wearable Motion Sensor Device to Facilitate Rehabilitation in Patients With Shoulder Adhesive Capsulitis: Pilot Study to Assess Feasibility. <i>Journal of Medical Internet Research</i> , 2020, 22, e17032.	2.1	29
33	Real-Time Streaming of Surgery Performance and Intraoperative Imaging Data in the Hybrid Operating Room: Development and Usability Study. <i>JMIR Medical Informatics</i> , 2020, 8, e18094.	1.3	4
34	A supplemental screw enhances the biomechanical stability in medial open-wedge high tibial osteotomy. <i>PLoS ONE</i> , 2020, 15, e0244557.	1.1	4
35	Bone marrow concentrate-induced mesenchymal stem cell conditioned medium facilitates wound healing and prevents hypertrophic scar formation in a rabbit ear model. <i>Stem Cell Research and Therapy</i> , 2019, 10, 275.	2.4	34
36	Mesenchymal stem cells prolong survival and prevent lethal complications in a porcine model of fulminant liver failure. <i>Xenotransplantation</i> , 2019, 26, e12542.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Mechanical stretch induces hair regeneration through the alternative activation of macrophages. <i>Nature Communications</i> , 2019, 10, 1524.	5.8	106
38	Reconstruction of Bone Defect Combined with Massive Loss of Periosteum Using Injectable Human Mesenchymal Stem Cells in Biocompatible Ceramic Scaffolds in a Porcine Animal Model. <i>Stem Cells International</i> , 2019, 2019, 1-8.	1.2	8
39	Alteration of mesenchymal stem cells polarity by laminar shear stimulation promoting $\beta$ -catenin nuclear localization. <i>Biomaterials</i> , 2019, 190-191, 1-10.	5.7	14
40	Historical Perspectives and Advances in Mesenchymal Stem Cell Research for the Treatment of Liver Diseases. <i>Gastroenterology</i> , 2018, 154, 46-56.	0.6	79
41	The role of EpCAM in tumor progression and the clinical prognosis of endometrial carcinoma. <i>Gynecologic Oncology</i> , 2018, 148, 383-392.	0.6	36
42	SiNWs Biophysically Regulate the Fates of Human Mesenchymal Stem Cells. <i>Scientific Reports</i> , 2018, 8, 12913.	1.6	8
43	Clinical Experience Using a 3D-Printed Patient-Specific Instrument for Medial Opening Wedge High Tibial Osteotomy. <i>BioMed Research International</i> , 2018, 2018, 1-9.	0.9	37
44	Knockdown of SLC41A1 magnesium transporter promotes mineralization and attenuates magnesium inhibition during osteogenesis of mesenchymal stromal cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 39.	2.4	28
45	Mesenchymal stromal cell-based therapies reduce obesity and metabolic syndromes induced by a high-fat diet. <i>Translational Research</i> , 2017, 182, 61-74.e8.	2.2	57
46	Delayed epidural transplantation of human induced pluripotent stem cell-derived neural progenitors enhances functional recovery after stroke. <i>Scientific Reports</i> , 2017, 7, 1943.	1.6	25
47	DNA Methyltransferases Modulate Hepatogenic Lineage Plasticity of Mesenchymal Stromal Cells. <i>Stem Cell Reports</i> , 2017, 9, 247-263.	2.3	14
48	Treatment of Spinocerebellar Ataxia with Mesenchymal Stem Cells: A Phase I/IIa Clinical Study. <i>Cell Transplantation</i> , 2017, 26, 503-512.	1.2	49
49	Ankylosing spondylitis and the risk of cancer. <i>Oncology Letters</i> , 2017, 14, 1315-1322.	0.8	30
50	Exosomes from mesenchymal stem cells induce the conversion of hepatocytes into progenitor oval cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 117.	2.4	28
51	Targeting cannabinoid signaling for peritoneal dialysis-induced oxidative stress and fibrosis. <i>World Journal of Nephrology</i> , 2017, 6, 111.	0.8	8
52	Is normal-tension glaucoma a risk factor for stroke? A 10-year follow-up study. <i>PLoS ONE</i> , 2017, 12, e0179307.	1.1	18
53	Endothelial angiogenesis is directed by RUNX1T1-regulated VEGFA, BMP4 and TGF- $\beta$ 2 expression. <i>PLoS ONE</i> , 2017, 12, e0179758.	1.1	28
54	Glucocorticoid receptor and Histone deacetylase 6 mediate the differential effect of dexamethasone during osteogenesis of mesenchymal stromal cells (MSCs). <i>Scientific Reports</i> , 2016, 6, 37371.	1.6	33

#	ARTICLE	IF	CITATIONS
55	Efficient generation of hepatic cells from mesenchymal stromal cells by an innovative bio-microfluidic cell culture device. <i>Stem Cell Research and Therapy</i> , 2016, 7, 120.	2.4	20
56	Development of a two-step protocol for culture expansion of human annulus fibrosus cells with TGF- $\beta$ 1 and FGF-2. <i>Stem Cell Research and Therapy</i> , 2016, 7, 89.	2.4	14
57	Matrix dimensionality and stiffness cooperatively regulate osteogenesis of mesenchymal stromal cells. <i>Acta Biomaterialia</i> , 2016, 32, 210-222.	4.1	57
58	Oscillatory Shear Stress Mediates Directional Reorganization of Actin Cytoskeleton and Alters Differentiation Propensity of Mesenchymal Stem Cells. <i>Stem Cells</i> , 2015, 33, 429-442.	1.4	50
59	Correlation of NADH fluorescence lifetime and oxidative phosphorylation metabolism in the osteogenic differentiation of human mesenchymal stem cell. <i>Journal of Biomedical Optics</i> , 2015, 20, 017004.	1.4	19
60	Regulation of metastatic ability and drug resistance in pulmonary adenocarcinoma by matrix rigidity via activating c-Met and EGFR. <i>Biomaterials</i> , 2015, 60, 141-150.	5.7	23
61	Circulating Wnt/ $\beta$ -catenin signalling inhibitors and uraemic vascular calcifications. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 1356-1363.	0.4	42
62	Raman spectroscopy for grading of live osteosarcoma cells. <i>Stem Cell Research and Therapy</i> , 2015, 6, 81.	2.4	16
63	Organ-Level Quorum Sensing Directs Regeneration in Hair Stem Cell Populations. <i>Cell</i> , 2015, 161, 277-290.	13.5	195
64	Dexamethasone-induced cellular tension requires SGK1-stimulated Sec5/GEF-H1 interaction. <i>Journal of Cell Science</i> , 2015, 128, 3757-68.	1.2	11
65	Uremia Induces Dental Pulp Ossification but Reciprocally Inhibits Adjacent Alveolar Bone Osteogenesis. <i>Calcified Tissue International</i> , 2015, 97, 466-475.	1.5	2
66	Niche-Dependent Regulations of Metabolic Balance in High-Fat Diet-Induced Diabetic Mice by Mesenchymal Stromal Cells. <i>Diabetes</i> , 2015, 64, 926-936.	0.3	38
67	17 $\beta$ -Estradiol Inhibits Mesenchymal Stem Cells-Induced Human AGS Gastric Cancer Cell Mobility via Suppression of CCL5- Src/Cas/Paxillin Signaling Pathway. <i>International Journal of Medical Sciences</i> , 2014, 11, 7-16.	1.1	12
68	Cryo-chemical decellularization of the whole liver for mesenchymal stem cells-based functional hepatic tissue engineering. <i>Biomaterials</i> , 2014, 35, 3607-3617.	5.7	100
69	Regenerative Hair Waves in Aging Mice and Extra-Follicular Modulators Follistatin, Dkk1, and Sfrp4. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2086-2096.	0.3	80
70	The effects of actin cytoskeleton perturbation on keratin intermediate filament formation in mesenchymal stem/stromal cells. <i>Biomaterials</i> , 2014, 35, 3934-3944.	5.7	29
71	A newly designed total implantable venous access device in rats for research with high efficiency and low cost. <i>Journal of Surgical Research</i> , 2014, 187, 36-42.	0.8	2
72	Rapid generation of mature hepatocyte-like cells from human induced pluripotent stem cells by an efficient three-step protocol. <i>Hepatology</i> , 2012, 55, 1193-1203.	3.6	242

#	ARTICLE	IF	CITATIONS
73	Cell Contact Accelerates Replicative Senescence of Human Mesenchymal Stem Cells Independent of Telomere Shortening and p53 Activation: Roles of Ras and Oxidative Stress. <i>Cell Transplantation</i> , 2011, 20, 1209-1220.	1.2	47
74	Matrix stiffness regulation of integrin-mediated mechanotransduction during osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 730-738.	3.1	351
75	Thymosin beta $\alpha$ 4 directs cell fate determination of human mesenchymal stem cells through biophysical effects. <i>Journal of Orthopaedic Research</i> , 2010, 28, 131-138.	1.2	22
76	Stem Cell Therapy for Liver Disease: Parameters Governing the Success of Using Bone Marrow Mesenchymal Stem Cells. <i>Gastroenterology</i> , 2008, 134, 2111-2121.e3.	0.6	428
77	Coordinated changes of mitochondrial biogenesis and antioxidant enzymes during osteogenic differentiation of human mesenchymal stem cells. <i>FASEB Journal</i> , 2008, 22, 1197.3.	0.2	0
78	Changes of oxidative stress and antioxidant enzymes during replicative senescence of human mesenchymal stem cells. <i>FASEB Journal</i> , 2008, 22, 1197.4.	0.2	0
79	In vitro hepatic differentiation of human mesenchymal stem cells. <i>Hepatology</i> , 2004, 40, 1275-1284.	3.6	818
80	Fluvastatin and lovastatin but not pravastatin induce neuroglial differentiation in human mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2004, 93, 917-928.	1.2	45
81	Feasibility and effect of a Wearable Motion Sensor Device in Facilitating In-Home Rehabilitation Program in Patients After Total Knee Arthroplasty: a Preliminary Study (Preprint). <i>JMIR Rehabilitation and Assistive Technologies</i> , 0, , .	1.1	0