

# Pilhan Kim

## List of Publications by Year in descending order

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121  
papers

3,934  
citations

117625

34  
h-index

133252

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125  
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125  
docs citations

125  
times ranked

6015  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal intravital imaging of cerebral microinfarction reveals a dynamic astrocyte reaction leading to glial scar formation. <i>Glia</i> , 2022, 70, 975-988.	4.9	7
2	Multimodal evaluation of an interphotoreceptor retinoid-binding protein-induced mouse model of experimental autoimmune uveitis. <i>Experimental and Molecular Medicine</i> , 2022, 54, 252-262.	7.7	7
3	Estrogen-Related Receptor $\hat{1}^3$ Maintains Pancreatic Acinar Cell Function and Identity by Regulating Cellular Metabolism. <i>Gastroenterology</i> , 2022, 163, 239-256.	1.3	7
4	Two distinct receptor-binding domains of human glycyl-tRNA synthetase 1 displayed on extracellular vesicles activate M1 polarization and phagocytic bridging of macrophages to cancer cells. <i>Cancer Letters</i> , 2022, 539, 215698.	7.2	6
5	Characterization of junctional structures in the gingival epithelium as barriers against bacterial invasion. <i>Journal of Periodontal Research</i> , 2022, 57, 799-810.	2.7	3
6	Intravital longitudinal cellular visualization of oral mucosa in a murine model based on rotatory side-view confocal endomicroscopy. <i>Biomedical Optics Express</i> , 2022, 13, 4160.	2.9	0
7	Development and evaluation of an ultrasound-triggered microbubble combined transarterial chemoembolization (TACE) formulation on rabbit VX2 liver cancer model. <i>Theranostics</i> , 2021, 11, 79-92.	10.0	22
8	Longitudinal Intravital Imaging of Tumor-Infiltrating Lymphocyte Motility in Breast Cancer Models. <i>Journal of Breast Cancer</i> , 2021, 24, 463-473.	1.9	1
9	Intravital Laser-scanning Two-photon and Confocal Microscopy for Biomedical Research. <i>Medical Lasers</i> , 2021, 10, 1-6.	0.4	0
10	Intravital Imaging of Circulating Red Blood Cells in the Retinal Vasculature of Growing Mice. <i>Translational Vision Science and Technology</i> , 2021, 10, 31.	2.2	5
11	Stabilized Longitudinal &In Vivo& Celluar-Level Visualization of the Pancreas in a Murine Model with a Pancreatic Intravital Imaging Window. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	2
12	Stepwise transmigration of T- and B cells through a perivascular channel in high endothelial venules. <i>Life Science Alliance</i> , 2021, 4, e202101086.	2.8	8
13	Intravital Two-photon Imaging of Dynamic Alteration of Hepatic Lipid Droplets in Fasted and Refed State. <i>Journal of Lipid and Atherosclerosis</i> , 2021, 10, 313.	3.5	7
14	3D Visualization of Dynamic Cellular Reaction of Pulpal CD11c+ Dendritic Cells against Pulpitis in Whole Murine Tooth. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12683.	4.1	1
15	Intravital two-photon imaging and quantification of hepatic steatosis and fibrosis in a live small animal model. <i>Biomedical Optics Express</i> , 2021, 12, 7918.	2.9	9
16	In vivo imaging of the hyaloid vascular regression and retinal and choroidal vascular development in rat eyes using optical coherence tomography angiography. <i>Scientific Reports</i> , 2020, 10, 12901.	3.3	2
17	Handheld endomicroscope using a fiber-optic harmonograph enables real-time and in vivo confocal imaging of living cell morphology and capillary perfusion. <i>Microsystems and Nanoengineering</i> , 2020, 6, 72.	7.0	12
18	Intraocular Distribution and Kinetics of Intravitreally Injected Antibodies and Nanoparticles in Rabbit Eyes. <i>Translational Vision Science and Technology</i> , 2020, 9, 20.	2.2	15

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19	Micromirror-Embedded Coverslip Assembly for Bidirectional Microscopic Imaging. <i>Micromachines</i> , 2020, 11, 582.	2.9	2
20	Dll4 Suppresses Transcytosis for Arterial Blood-Retinal Barrier Homeostasis. <i>Circulation Research</i> , 2020, 126, 767-783.	4.5	35
21	Exosome-based delivery of super-repressor $\text{I}\kappa\text{B}\alpha$ relieves sepsis-associated organ damage and mortality. <i>Science Advances</i> , 2020, 6, eaaz6980.	10.3	132
22	In vivo longitudinal visualization of the brain neuroinflammatory response at the cellular level in LysM-GFP mice induced by 3-nitropropionic acid. <i>Biomedical Optics Express</i> , 2020, 11, 4835.	2.9	8
23	Intravital longitudinal imaging of hepatic lipid droplet accumulation in a murine model for nonalcoholic fatty liver disease. <i>Biomedical Optics Express</i> , 2020, 11, 5132.	2.9	17
24	A Novel Pancreatic Imaging Window for Stabilized Longitudinal <i>In Vivo</i> Observation of Pancreatic Islets in Murine Model. <i>Diabetes and Metabolism Journal</i> , 2020, 44, 193.	4.7	15
25	Quantitative two-photon microscopy imaging analysis of human skin to evaluate enhanced transdermal delivery by hybrid-type multi-lamellar nanostructure: retraction. <i>Biomedical Optics Express</i> , 2020, 11, 5871.	2.9	1
26	3D cellular visualization of intact mouse tooth using optical clearing without decalcification. <i>International Journal of Oral Science</i> , 2019, 11, 25.	8.6	11
27	Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. <i>Scientific Reports</i> , 2019, 9, 3560.	3.3	35
28	Tie2 activation promotes choriocapillary regeneration for alleviating neovascular age-related macular degeneration. <i>Science Advances</i> , 2019, 5, eaau6732.	10.3	39
29	PM2.5 Exposure in the Respiratory System Induces Distinct Inflammatory Signaling in the Lung and the Liver of Mice. <i>Journal of Immunology Research</i> , 2019, 2019, 1-11.	2.2	43
30	Neutrophils disturb pulmonary microcirculation in sepsis-induced acute lung injury. <i>European Respiratory Journal</i> , 2019, 53, 1800786.	6.7	160
31	In vivo longitudinal depth-wise visualization of tumorigenesis by needle-shaped side-view confocal endomicroscopy. <i>Biomedical Optics Express</i> , 2019, 10, 2719.	2.9	5
32	Effect of resveratrol treatment on graft revascularization after islet transplantation in streptozotocin-induced diabetic mice. <i>Islets</i> , 2018, 10, 25-39.	1.8	11
33	Highly Angiogenic, Nonthrombogenic Bone Marrow Mononuclear Cell-Derived Spheroids in Intraportal Islet Transplantation. <i>Diabetes</i> , 2018, 67, 473-485.	0.6	14
34	Quinic Acid-Conjugated Nanoparticles Enhance Drug Delivery to Solid Tumors via Interactions with Endothelial Selectins. <i>Small</i> , 2018, 14, e1803601.	10.0	25
35	1457: CAPILLARY ENTRAPMENT OF MAC-1+ NEUTROPHIL DISTURBS PULMONARY MICROCIRCULATION IN SEPSIS-INDUCED ARDS. <i>Critical Care Medicine</i> , 2018, 46, 712-712.	0.9	0
36	Quantitative two-photon microscopy imaging analysis of human skin to evaluate enhanced transdermal delivery by hybrid-type multi-lamellar nanostructure. <i>Biomedical Optics Express</i> , 2018, 9, 3974.	2.9	6

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37	Nanoparticle-Assisted Transcutaneous Delivery of a Signal Transducer and Activator of Transcription 3-Inhibiting Peptide Ameliorates Psoriasis-like Skin Inflammation. ACS Nano, 2018, 12, 6904-6916.	14.6	46
38	Intravital imaging of a pulmonary endothelial surface layer in a murine sepsis model. Biomedical Optics Express, 2018, 9, 2383.	2.9	28
39	Fully packaged confocal endomicroscopic system using Lissajous fiber scanner for indocyanine green in-vivo imaging. , 2018, , .		1
40	Caspase-8 controls the secretion of inflammatory lysyl-tRNA synthetase in exosomes from cancer cells. Journal of Cell Biology, 2017, 216, 2201-2216.	5.2	81
41	VEGFR2 but not VEGFR3 governs integrity and remodeling of thyroid angiofollicular unit in normal state and during goitrogenesis. EMBO Molecular Medicine, 2017, 9, 750-769.	6.9	21
42	Polypeptide-based polyelectrolyte complexes overcoming the biological barriers of oral insulin delivery. Journal of Industrial and Engineering Chemistry, 2017, 48, 79-87.	5.8	20
43	Frequency selection rule for high definition and high frame rate Lissajous scanning. Scientific Reports, 2017, 7, 14075.	3.3	59
44	Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner. , 2017, , .		3
45	Secreted tryptophanyl-tRNA synthetase as a primary defence system against infection. Nature Microbiology, 2017, 2, 16191.	13.3	76
46	In vivo cellular-level real-time pharmacokinetic imaging of free-form and liposomal indocyanine green in liver. Biomedical Optics Express, 2017, 8, 4706.	2.9	18
47	In Vivo Deep Tissue Visualization by Needle-type Side-view Confocal Endomicroscopy. , 2017, , .		0
48	Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown. JCI Insight, 2017, 2, e90905.	5.0	113
49	Intravital longitudinal wide-area imaging of dynamic bone marrow engraftment and multilineage differentiation through nuclear-cytoplasmic labeling. PLoS ONE, 2017, 12, e0187660.	2.5	17
50	Mouse tissue imaging using real-time Lissajous confocal endomicroscopic system. , 2017, , .		0
51	Imaging Laser-Induced Choroidal Neovascularization in the Rodent Retina Using Optical Coherence Tomography Angiography. , 2016, 57, OCT331.		38
52	In Vivo Fluorescence Retinal Imaging Following AAV2-Mediated Gene Delivery in the Rat Retina. , 2016, 57, 3390.		13
53	Live Images of Donor Dendritic Cells Trafficking via CX3CR1 Pathway. Frontiers in Immunology, 2016, 7, 412.	4.8	5
54	Holographic intravital microscopy for 2-D and 3-D imaging intact circulating blood cells in microcapillaries of live mice. Scientific Reports, 2016, 6, 33084.	3.3	32

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55	Imaging cell biology in transplantation. <i>Transplant International</i> , 2016, 29, 1349-1351.	1.6	3
56	Amelioration of sepsis by TIE2 activation-induced vascular protection. <i>Science Translational Medicine</i> , 2016, 8, 335ra55.	12.4	151
57	Intravital Microscopy Analysis. , 2016, , 1698-1708.		0
58	In vivo Quantitation of Circulating Tumor Cells by High-speed Intravital Laser-scanning Confocal Microscopy. , 2016, , .		1
59	Urokinase Exerts Antimetastatic Effects by Dissociating Clusters of Circulating Tumor Cells. <i>Cancer Research</i> , 2015, 75, 4474-4482.	0.9	47
60	Intravital laser-scanning microscopy for biomedical research. , 2015, , .		0
61	Interaction of tetraspan(in) TM4SF5 with CD44 promotes self-renewal and circulating capacities of hepatocarcinoma cells. <i>Hepatology</i> , 2015, 61, 1978-1997.	7.3	54
62	Longitudinal Tracing of Spontaneous Regression and Anti-angiogenic Response of Individual Microadenomas during Colon Tumorigenesis. <i>Theranostics</i> , 2015, 5, 724-732.	10.0	9
63	Optical clearing assisted confocal microscopy of ex vivo transgenic mouse skin. <i>Optics and Laser Technology</i> , 2015, 73, 69-76.	4.6	12
64	In vivo quantitation of circulating tumor cells by video-rate intravital laser-scanning confocal microscopy. , 2015, , .		0
65	In vivo analysis of immune cell motility after THz wave irradiation. , 2015, , .		0
66	In vivo lung imaging in pulmonary disease model. , 2015, , .		0
67	Optical clearing based cellular-level 3D visualization of intact lymph node cortex. <i>Biomedical Optics Express</i> , 2015, 6, 4154.	2.9	28
68	In vivo longitudinal cellular imaging of small intestine by side-view endomicroscopy. <i>Biomedical Optics Express</i> , 2015, 6, 3963.	2.9	13
69	Thermoset Elastomers Derived from Carvomenthide. <i>Biomacromolecules</i> , 2015, 16, 246-256.	5.4	25
70	Establishment of a controlled insulin delivery system using a glucose-responsive double-layered nanogel. <i>RSC Advances</i> , 2015, 5, 14482-14491.	3.6	40
71	In vivo quantitation of injected circulating tumor cells from great saphenous vein based on video-rate confocal microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 2158.	2.9	39
72	In Vivo Real-time Observation of ICG Pharmacokinetics by NIR Laser-scanning Confocal Microscopy. , 2015, , .		0

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73	Identification of cromolyn sodium as an anti-fibrotic agent targeting both hepatocytes and hepatic stellate cells. <i>Pharmacological Research</i> , 2015, 102, 176-183.	7.1	14
74	Intravital imaging of intestinal lacteals unveils lipid drainage through contractility. <i>Journal of Clinical Investigation</i> , 2015, 125, 4042-4052.	8.2	88
75	In vivo longitudinal cellular imaging of small intestine by side-view confocal endomicroscopy. , 2015, , .		0
76	Gradient index lens based combined two-photon microscopy and optical coherence tomography. <i>Optics Express</i> , 2014, 22, 12962.	3.4	15
77	In vivo analysis of THz wave irradiation induced acute inflammatory response in skin by laser-scanning confocal microscopy. <i>Optics Express</i> , 2014, 22, 11465.	3.4	51
78	Lymphatic regulator PROX1 determines Schlemm's canal integrity and identity. <i>Journal of Clinical Investigation</i> , 2014, 124, 3960-3974.	8.2	141
79	Controllable viscoelastic behavior of vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2013, 65, 305-314.	10.3	20
80	Development of a high speed laser scanning confocal microscope with an acquisition rate up to 200 frames per second. <i>Optics Express</i> , 2013, 21, 23611.	3.4	48
81	Endoscopic Time-Lapse Imaging of Immune Cells in Infarcted Mouse Hearts. <i>Circulation Research</i> , 2013, 112, 891-899.	4.5	161
82	In vivo high spatiotemporal resolution visualization of circulating T lymphocytes in high endothelial venules of lymph nodes. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	26
83	Fabrication and operation of GRIN probes for in vivo fluorescence cellular imaging of internal organs in small animals. <i>Nature Protocols</i> , 2012, 7, 1456-1469.	12.0	89
84	In Vivo Toxicity of Titanium Dioxide and Gold Nanoparticles. , 2012, , 1083-1090.		0
85	Insect Flight and Micro Air Vehicles (MAVs). , 2012, , 1096-1109.		0
86	Rapid tumorotropic accumulation of systemically injected plateloid particles and their biodistribution. <i>Journal of Controlled Release</i> , 2012, 158, 148-155.	9.9	177
87	Side-View Endomicroscopy for High-Resolution In Vivo Imaging of the Gastrointestinal Tract. , 2012, , 333-348.		0
88	Intravital Microscopy for THz-Bio Analysis. , 2012, , 413-435.		0
89	In Vivo Measurement of Age-Related Stiffening in the Crystalline Lens by Brillouin Optical Microscopy. <i>Biophysical Journal</i> , 2011, 101, 1539-1545.	0.5	174
90	FTY720 Blocks Egress of T Cells in Part by Abrogation of Their Adhesion on the Lymph Node Sinus. <i>Journal of Immunology</i> , 2011, 187, 2244-2251.	0.8	41

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91	Polyplex nanomicelle promotes hydrodynamic gene introduction to skeletal muscle. <i>Journal of Controlled Release</i> , 2010, 143, 112-119.	9.9	53
92	In vivo tracking of 'color-coded' effector, natural and induced regulatory T cells in the allograft response. <i>Nature Medicine</i> , 2010, 16, 718-722.	30.7	145
93	In vivo wide-area cellular imaging by side-view endomicroscopy. <i>Nature Methods</i> , 2010, 7, 303-305.	19.0	155
94	A Novel Laser Vaccine Adjuvant Increases the Motility of Antigen Presenting Cells. <i>PLoS ONE</i> , 2010, 5, e13776.	2.5	65
95	A Novel Imaging Approach for Early Detection of Prostate Cancer Based on Endogenous Zinc Sensing. <i>Cancer Research</i> , 2010, 70, 6119-6127.	0.9	103
96	Podoplanin-Expressing Cells Derived From Bone Marrow Play a Crucial Role in Postnatal Lymphatic Neovascularization. <i>Circulation</i> , 2010, 122, 1413-1425.	1.6	102
97	Two-photon microscopy by wavelength-swept pulses delivered through single-mode fiber. <i>Optics Letters</i> , 2010, 35, 181.	3.3	4
98	In vivo confocal and multiphoton microendoscopy. <i>Journal of Biomedical Optics</i> , 2008, 13, 010501.	2.6	110
99	Cross-axis cascading of spectral dispersion. <i>Optics Letters</i> , 2008, 33, 2979.	3.3	26
100	Gain and noise figure spectrum control algorithm for fiber Raman amplifiers. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1125-1127.	2.5	8
101	Raman-based distributed temperature sensor with simplex coding and link optimization. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1879-1881.	2.5	84
102	Integral equation approach for the analysis of high-power semiconductor optical amplifiers. <i>Optics Express</i> , 2006, 14, 2398.	3.4	7
103	Optimization of SNR improvement in the noncoherent OTDR based on simplex codes. <i>Journal of Lightwave Technology</i> , 2006, 24, 322-328.	4.6	65
104	Application of Numerical Analysis Techniques for the Optimization of Wideband Amplifier Performances. , 2006, , 155-172.		0
105	Designing Raman amplified transmission systems: what's there and how to. , 2005, 6019, 424.		0
106	Integral form expansion of fiber Raman amplifier problem. <i>Optical Fiber Technology</i> , 2005, 11, 111-130.	2.7	8
107	Adiabatic, closed-form approach to the highly efficient analysis of a fiber Raman amplifier problem. <i>Optics Letters</i> , 2005, 30, 126.	3.3	3
108	SNR enhancement of OTDR using biorthogonal codes and generalized inverses. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 163-165.	2.5	28

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109	Semianalytic dynamic gain-clamping method for the fiber Raman amplifier. IEEE Photonics Technology Letters, 2005, 17, 768-770.	2.5	5
110	High-performance discrete amplifier based on a second-order fiber Raman oscillator. IEEE Photonics Technology Letters, 2005, 17, 2298-2300.	2.5	1
111	Closed Integral Form Expansion of Raman Equation for Efficient Gain Optimization Process. IEEE Photonics Technology Letters, 2004, 16, 1649-1651.	2.5	19
112	Dynamics of cascaded Brillouin-Rayleigh scattering in a distributed fiber Raman amplifier. Optics Letters, 2002, 27, 155.	3.3	70
113	Study on the gain excursion and tilt compensation for 1.4- and 1.5- $\mu$ m dual wavelength pumped TDFA. IEEE Photonics Technology Letters, 2002, 14, 786-788.	2.5	9
114	Analysis on the transient response of 1.55- $\mu$ m/1.4- $\mu$ m dual-wavelength pumped thulium-doped fiber amplifiers. IEEE Photonics Technology Letters, 2002, 14, 1503-1505.	2.5	13
115	In situ design method for multichannel gain of a distributed Raman amplifier with multiwave OTDR. IEEE Photonics Technology Letters, 2002, 14, 1683-1685.	2.5	13
116	Novel in-service supervisory scheme for the amplified WDM link with modified optical time domain reflectometry. Optical Fiber Technology, 2002, 8, 139-145.	2.7	2
117	Novel in-service supervisory system using OTDR for long-haul WDM transmission link including cascaded in-line EDFAs. IEEE Photonics Technology Letters, 2001, 13, 1136-1138.	2.5	11
118	Flat amplitude equal spacing 798-channel Rayleigh-assisted Brillouin/Raman multiwavelength comb generation in dispersion compensating fiber. IEEE Photonics Technology Letters, 2001, 13, 1352-1354.	2.5	92
119	Analysis on the channel power oscillation in the closed WDM ring network with the channel power equalizer. IEEE Photonics Technology Letters, 2000, 12, 1409-1411.	2.5	20
120	In vivo observation of multi-phase spatiotemporal cellular dynamics of transplanted HSPCs during early engraftment. FASEB BioAdvances, 0, , .	2.4	0
121	Establishment of the reproducible branch retinal artery occlusion mouse model and intravital longitudinal imaging of the retinal CX3CR1-GFP+ cells after spontaneous arterial recanalization. Frontiers in Medicine, 0, 9, .	2.6	1