

# Yannis M Paulus

## List of Publications by Year in descending order

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122  
papers

2,283  
citations

236612

25  
h-index

288905

40  
g-index

125  
all docs

125  
docs citations

125  
times ranked

2305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Pulse Duration on Size and Character of the Lesion in Retinal Photocoagulation. JAMA Ophthalmology, 2008, 126, 78.	2.6	164
2	Healing of Retinal Photocoagulation Lesions. , 2008, 49, 5540.		144
3	Photoacoustic ocular imaging. Optics Letters, 2010, 35, 270.	1.7	122
4	Noninvasive chorioretinal imaging in living rabbits using integrated photoacoustic microscopy and optical coherence tomography. Optics Express, 2017, 25, 15947.	1.7	84
5	Wnt Signaling Promotes Müller Cell Proliferation and Survival after Injury. , 2013, 54, 444.		80
6	High-resolution, in vivo multimodal photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy imaging of rabbit retinal neovascularization. Light: Science and Applications, 2018, 7, 103.	7.7	77
7	Chain-like gold nanoparticle clusters for multimodal photoacoustic microscopy and optical coherence tomography enhanced molecular imaging. Nature Communications, 2021, 12, 34.	5.8	77
8	Dynamics of retinal photocoagulation and rupture. Journal of Biomedical Optics, 2009, 14, 034007.	1.4	75
9	A Smartphone-Based Tool for Rapid, Portable, and Automated Wide-Field Retinal Imaging. Translational Vision Science and Technology, 2018, 7, 21.	1.1	66
10	Restoration of Retinal Structure and Function after Selective Photocoagulation. Journal of Neuroscience, 2013, 33, 6800-6808.	1.7	53
11	Anti-VEGF Vascular Endothelial Growth Factor Therapy for Diabetic Retinopathy: Consequences of Inadvertent Treatment Interruptions. American Journal of Ophthalmology, 2019, 204, 13-18.	1.7	51
12	Contrast Agent Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography for Imaging of Rabbit Choroidal and Retinal Vessels in vivo. Scientific Reports, 2019, 9, 5945.	1.6	45
13	Therapeutic Window of Retinal Photocoagulation With Green (532-nm) and Yellow (577-nm) Lasers. Ophthalmic Surgery Lasers and Imaging Retina, 2012, 43, 341-347.	0.4	45
14	Laser Therapy in the Treatment of Diabetic Retinopathy and Diabetic Macular Edema. Current Diabetes Reports, 2021, 21, 35.	1.7	43
15	IgG4-positive Sclerosing Orbital Inflammation Involving the Conjunctiva: A Case Report. Ocular Immunology and Inflammation, 2012, 20, 375-377.	1.0	42
16	SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER. Retina, 2011, 31, 380-388.	1.0	39
17	Anti-angiogenic Therapy for Retinal Disease. Handbook of Experimental Pharmacology, 2016, 242, 271-307.	0.9	38
18	New Developments in the Classification, Pathogenesis, Risk Factors, Natural History, and Treatment of Branch Retinal Vein Occlusion. Journal of Ophthalmology, 2017, 2017, 1-18.	0.6	38

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19	Laser-induced nanobubbles safely ablate vitreous opacities in vivo. <i>Nature Nanotechnology</i> , 2022, 17, 552-559.	15.6	37
20	Pro-Permeability Factors After Dexamethasone Implant in Retinal Vein Occlusion; the Ozurdex for Retinal Vein Occlusion (ORVO) Study. <i>American Journal of Ophthalmology</i> , 2015, 160, 313-321.e19.	1.7	35
21	Smartphone-Based, Rapid, Wide-Field Fundus Photography for Diagnosis of Pediatric Retinal Diseases. <i>Translational Vision Science and Technology</i> , 2019, 8, 29.	1.1	34
22	Novel Photoacoustic Microscopy and Optical Coherence Tomography Dual-modality Chorioretinal Imaging in Living Rabbit Eyes. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	31
23	High-resolution multimodal photoacoustic microscopy and optical coherence tomography image-guided laser induced branch retinal vein occlusion in living rabbits. <i>Scientific Reports</i> , 2019, 9, 10560.	1.6	31
24	Biodegradable silicon nanoneedles for ocular drug delivery. <i>Science Advances</i> , 2022, 8, eabn1772.	4.7	31
25	Resolution of Persistent Exudative Retinal Detachment in a Case of Sturge-Weber Syndrome with Anti-VEGF Administration. <i>Ocular Immunology and Inflammation</i> , 2009, 17, 292-294.	1.0	30
26	Multi-wavelength, en-face photoacoustic microscopy and optical coherence tomography imaging for early and selective detection of laser induced retinal vein occlusion. <i>Biomedical Optics Express</i> , 2018, 9, 5915.	1.5	30
27	High-precision, non-invasive anti-microvascular approach via concurrent ultrasound and laser irradiation. <i>Scientific Reports</i> , 2017, 7, 40243.	1.6	27
28	Smartphone-based fundus photography for screening of plus-disease retinopathy of prematurity. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 2579-2585.	1.0	26
29	Plasmonic Gold Nanostar-Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Molecular Imaging To Evaluate Choroidal Neovascularization. <i>ACS Sensors</i> , 2020, 5, 3070-3081.	4.0	26
30	Photoacoustic Ophthalmoscopy: Principle, Application, and Future Directions. <i>Journal of Imaging</i> , 2018, 4, 149.	1.7	24
31	Simultaneous photoacoustic microscopy, spectral-domain optical coherence tomography, and fluorescein microscopy multi-modality retinal imaging. <i>Photoacoustics</i> , 2020, 20, 100194.	4.4	24
32	Intra-arterial and Oral Digoxin Therapy for Retinoblastoma. <i>Ophthalmic Genetics</i> , 2011, 32, 147-150.	0.5	22
33	Advances in Retinal Optical Imaging. <i>Photonics</i> , 2018, 5, 9.	0.9	22
34	ERG monitoring of retinal function during systemic chemotherapy for retinoblastoma. <i>British Journal of Ophthalmology</i> , 2012, 96, 877-880.	2.1	21
35	Retinal safety of near-infrared lasers in cataract surgery. <i>Journal of Biomedical Optics</i> , 2012, 17, 0950011.	1.4	21
36	PROSPECTIVE TRIAL OF ENDOGENOUS FUNGAL ENDOPHTHALMITIS AND CHORIORETINITIS RATES, CLINICAL COURSE, AND OUTCOMES IN PATIENTS WITH FUNGEMIA. <i>Retina</i> , 2016, 36, 1357-1363.	1.0	21

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37	High-resolution contrast-enhanced optical coherence tomography in mice retinae. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	1.4	20
38	In Vivo 3D Imaging of Retinal Neovascularization Using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Imaging. <i>Journal of Imaging</i> , 2018, 4, 150.	1.7	20
39	Real-time OCT guidance and multimodal imaging monitoring of subretinal injection induced choroidal neovascularization in rabbit eyes. <i>Experimental Eye Research</i> , 2019, 186, 107714.	1.2	20
40	&lt;p&gt;Prefilled syringes for intravitreal drug delivery&lt;/p&gt;. <i>Clinical Ophthalmology</i> , 2019, Volume 13, 701-706.	0.9	20
41	Quantification of Retinal Nonperfusion and Neovascularization With Ultrawidefield Fluorescein Angiography in Patients With Diabetes and Associated Characteristics of Advanced Disease. <i>JAMA Ophthalmology</i> , 2020, 138, 680.	1.4	19
42	Removal of choroidal vasculature using concurrently applied ultrasound bursts and nanosecond laser pulses. <i>Scientific Reports</i> , 2018, 8, 12848.	1.6	17
43	Long-Term, Noninvasive <i>In Vivo</i> Tracking of Progenitor Cells Using Multimodality Photoacoustic, Optical Coherence Tomography, and Fluorescence Imaging. <i>ACS Nano</i> , 2021, 15, 13289-13306.	7.3	17
44	Diabetic retinopathy: a growing concern in an aging population. <i>Geriatrics</i> , 2009, 64, 16-20.	0.3	17
45	The Effect of Laser and Ultrasound Synchronization in Photo-Mediated Ultrasound Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3363-3370.	2.5	16
46	Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam. <i>Journal of Biomedical Optics</i> , 2011, 16, 028004.	1.4	15
47	Comparison of automated and expert human grading of diabetic retinopathy using smartphone-based retinal photography. <i>Eye</i> , 2021, 35, 334-342.	1.1	15
48	Inexpensive, realtime tele-ultrasound using a commercial, web-based video streaming device. <i>Journal of Telemedicine and Telecare</i> , 2012, 18, 185-188.	1.4	13
49	Optical coherence tomography and fluorescence microscopy dual-modality imaging for in vivo single-cell tracking with nanowire lasers. <i>Biomedical Optics Express</i> , 2020, 11, 3659.	1.5	13
50	Preputial Epidermoid Cyst. <i>Journal of Lower Genital Tract Disease</i> , 2010, 14, 382-386.	0.9	12
51	Visual function quality of life measure changes upon conversion to neovascular age-related macular degeneration in second eyes. <i>Quality of Life Research</i> , 2017, 26, 2139-2151.	1.5	12
52	Gold Nanorod Enhanced Photoacoustic Microscopy and Optical Coherence Tomography of Choroidal Neovascularization. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40214-40228.	4.0	12
53	Abiotrophia defectiva causing infectious crystalline keratopathy and corneal ulcer after penetrating keratoplasty: a case report. <i>Journal of Ophthalmic Inflammation and Infection</i> , 2013, 3, 20.	1.2	11
54	Prevalence of diabetes mellitus in patients with newly evaluated papillary thyroid cancer. <i>Thyroid Research</i> , 2014, 7, 7.	0.7	11

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55	Usability testing of a smartphone-based retinal camera among first-time users in the primary care setting. <i>BMJ Innovations</i> , 2019, 5, 120-126.	1.0	11
56	High Resolution Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Visualization of Choroidal Vascular Occlusion. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6508.	1.8	9
57	Photo-Mediated Ultrasound Therapy for the Treatment of Corneal Neovascularization in Rabbit Eyes. <i>Translational Vision Science and Technology</i> , 2020, 9, 16.	1.1	9
58	Real-time photoacoustic sensing for photo-mediated ultrasound therapy. <i>Optics Letters</i> , 2019, 44, 4063.	1.7	9
59	Ultralow energy photoacoustic microscopy for ocular imaging in vivo. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	9
60	Persistent plus Disease after Laser in Retinopathy of Prematurity with Tetralogy of Fallot. <i>European Journal of Ophthalmology</i> , 2013, 23, 764-766.	0.7	8
61	Effect of oral niacin on central retinal vein occlusion. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2017, 255, 1085-1092.	1.0	8
62	Comparison of Pneumatic Retinopexy and Scleral Buckle for Primary Rhegmatogenous Retinal Detachment Repair. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017, 48, 887-893.	0.4	8
63	Indocyanine green-enhanced multimodal photoacoustic microscopy and optical coherence tomography molecular imaging of choroidal neovascularization. <i>Journal of Biophotonics</i> , 2021, 14, e202000458.	1.1	8
64	Prefoveal Vitreous Condensation in Chronic Inflammation. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2014, 45, 447-450.	0.4	8
65	Thin Layer-Protected Gold Nanoparticles for Targeted Multimodal Imaging with Photoacoustic and CT. <i>Pharmaceuticals</i> , 2021, 14, 1075.	1.7	8
66	Photo-mediated Ultrasound Therapy to Treat Retinal Neovascularization. , 2020, 2020, 5244-5247.		7
67	In Vivo Subretinal ARPE-19 Cell Tracking Using Indocyanine Green Contrast-Enhanced Multimodality Photoacoustic Microscopy, Optical Coherence Tomography, and Fluorescence Imaging for Regenerative Medicine. <i>Translational Vision Science and Technology</i> , 2021, 10, 10.	1.1	7
68	New Frontiers in Retinal Imaging. <i>International Journal of Ophthalmic Research</i> , 2016, 2, 148-158.	0.2	7
69	EFFECT OF INTRAVITREAL TRIAMCINOLONE ACETONIDE ON HEALING OF RETINAL PHOTOCOAGULATION LESIONS. <i>Retina</i> , 2013, 33, 63-70.	1.0	6
70	Use of Fundus Autofluorescence to Evaluate Retinal Artery Occlusions. <i>Retina</i> , 2014, 34, 2490-2491.	1.0	6
71	Functionalized contrast agents for multimodality photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy molecular retinal imaging. <i>Methods in Enzymology</i> , 2021, 657, 443-480.	0.4	6
72	Removing Subcutaneous Microvessels Using Photo-Mediated Ultrasound Therapy. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 984-992.	1.1	6

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73	Chorioretinal Hypoxia Detection Using Lipid-Polymer Hybrid Organic Room-Temperature Phosphorescent Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18182-18193.	4.0	6
74	Multiple Myeloma Recurrence with Optic Nerve Infiltration Diagnosed by Vitrectomy, Immunohistochemistry, and in Situ Hybridization. <i>European Journal of Ophthalmology</i> , 2014, 24, 446-448.	0.7	5
75	Neuroprotection and Retinal Diseases. <i>Developments in Ophthalmology</i> , 2016, 55, 322-329.	0.1	5
76	Potentially Reversible Effect of Niacin Therapy on Edema From Retinal Vein Occlusion. <i>JAMA Ophthalmology</i> , 2016, 134, 839.	1.4	5
77	Retinal safety evaluation of photoacoustic microscopy. <i>Experimental Eye Research</i> , 2021, 202, 108368.	1.2	5
78	Photo-mediated ultrasound therapy for the treatment of retinal neovascularization in rabbit eyes. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 747-757.	1.1	5
79	Preretinal hemorrhages following chiropractor neck manipulation. <i>American Journal of Ophthalmology Case Reports</i> , 2018, 11, 181-183.	0.4	4
80	Long-term multimodal imaging characterization of persistent retinal neovascularization using DL-alpha-aminoadipic acid in pigmented and white rabbits. <i>Experimental Eye Research</i> , 2021, 207, 108577.	1.2	4
81	Non-Therapeutic Laser Retinal Injury. <i>International Journal of Ophthalmic Research</i> , 2019, 5, 321-335.	0.2	4
82	Effect of Photo-Mediated Ultrasound Therapy on Nitric Oxide and Prostacyclin from Endothelial Cells. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2617.	1.3	4
83	Selective retinal therapy with a continuous line scanning laser. , 2010, , .		3
84	Serum Inflammatory Markers After Rupture Retinal Laser Injury in Mice. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015, 46, 362-368.	0.4	3
85	DEVELOPMENT OF CHRONIC SUBRETINAL FLUID IN KEARNSâ€™SAYRE SYNDROME. <i>Retinal Cases and Brief Reports</i> , 2016, 10, 236-238.	0.3	3
86	Antivascular photo-mediated ultrasound therapy. , 2016, , .		3
87	Notice of Removal: The application of antivascular photo-mediated ultrasound therapy in removing microvessels in the eye. , 2017, , .		3
88	Novel Retinal Laser Therapies. <i>International Journal of Ophthalmic Research</i> , 2018, 4, 272-281.	0.2	3
89	Innovations in Retinal Laser Technology. <i>Optics and Photonics Journal</i> , 2018, 08, 173-186.	0.3	3
90	Multimodal In Vivo Imaging of Retinal and Choroidal Vascular Occlusion. <i>Photonics</i> , 2022, 9, 201.	0.9	3

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91	Re: Bressler etÂal.: Factors associated with worsening proliferative diabetic retinopathy inÂeyes treated with panretinal photocoagulation or ranibizumab ( Ophthalmology . 2017;124:431-439). Ophthalmology, 2017, 124, e87-e88.	2.5	2
92	Patterned retinal coagulation with a scanning laser. , 2007, , .		1
93	Computational model of retinal photocoagulation and rupture. , 2009, , .		1
94	Finite element model of thermal processes in retinal photocoagulation. , 2009, , .		1
95	Improved safety of retinal photocoagulation with a shaped beam and modulated pulse. Proceedings of SPIE, 2010, , .	0.8	1
96	Further Evidence That Cataract Surgery Is Not Associated With Macular Degeneration Progression. JAMA Ophthalmology, 2016, 134, 627.	1.4	1
97	A novel think tank program to promote innovation and strategic planning in ophthalmic surgery. Perioperative Care and Operating Room Management, 2021, 22, 100147.	0.2	1
98	Integrated photoacoustic microscopy and optical coherence tomography image-guided laser induced branch retinal vein occlusion in living rabbits. , 2019, , .		1
99	Spectral-Domain Optical Coherence Tomography, Wide-Field Photography, and Fundus Autofluorescence Correlation of Posterior Ophthalmomyiasis Interna. Ophthalmic Surgery Lasers and Imaging Retina, 2016, 47, 682-685.	0.4	1
100	Peripheral Avascular Retina in a Term Male Neonate With Microvillus Inclusion Disease and Pancreatic Insufficiency. Ophthalmic Surgery Lasers and Imaging Retina, 2015, 46, 589-591.	0.4	1
101	Integrated photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy for multimodal chorioretinal imaging. , 2018, 10494, .		1
102	Multi-wavelength photoacoustic microscopy for detection of retinal vein occlusion during laser photocoagulation in rabbits. , 2019, , .		1
103	FLASH: A Novel Tool to Identify Vision-Threating Eye Emergencies. International Journal of Ophthalmic Research, 2020, 6, 336-343.	0.2	1
104	Safety Evaluation of Photoacoustic Tomography System for Intraocular Tumors. Translational Vision Science and Technology, 2022, 11, 30.	1.1	1
105	Ocular safety limits for 1030nm femtosecond laser cataract surgery. , 2013, , .		0
106	Reply. American Journal of Ophthalmology, 2016, 161, 216-217.	1.7	0
107	Antivascular effect induced by photo-mediated ultrasound. Proceedings of SPIE, 2017, , .	0.8	0
108	A <i>PRPH2</i> gene variant detected in retinitis punctata albescens with congenital hypertrophy of the retinal pigment epithelium. European Journal of Ophthalmology, 2022, 32, NP134-NP138.	0.7	0

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109	Longitudinal 3D Visualization of Choroidal Neovascularization in a Rabbit Model using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography Molecular Imaging. , 2021, , .		0
110	Gold Nanorod Contrast-Enhanced Molecular Imaging of Choroidal Neovascularization using Dual Photoacoustic Ophthalmoscopy and Optical Coherence Tomography in a Rabbit Model. , 2021, , .		0
111	Multimodality Imaging Guided Retichoroidal Neovascularization in a Rabbit Model. , 2018, , .		0
112	Retinal and choroidal imaging in vivo using integrated photoacoustic microscopy and optical coherence tomography. , 2018, 10474, .		0
113	Indocyanine Green-Enhanced Dual Photoacoustic Microscopy and Fluorescence Imaging for Visualization of Choroidal Neovascularization in a Rabbit Model. , 2019, , .		0
114	Gold Nanorod Contrast-Enhanced Molecular Imaging of Retinal Neovascularization using Dual Photoacoustic Microscopy and Optical Coherence Tomography in Rabbits. , 2019, , .		0
115	Plasmonic Gold Nanorods for theranostic photoacoustic microscopy and optical coherence tomography imaging enhancement and photodynamic therapy of retinal neovascularization in a rabbit model. , 2019, , .		0
116	Contrast agent enhanced multimodal photoacoustic microscopy and optical coherence tomography for imaging rabbit choroidal and retinal vessels in vivo. , 2019, , .		0
117	Three-Dimensional Visualization of Choroidal Vascular Lesions using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography in Living Rabbits. , 2020, , .		0
118	Organic fluorophore capped gold nanostars for enhanced detection of choroidal neovascularization in living rabbits using multimodal photoacoustic microscopy, optical coherence tomography, and fluorescence microscopy. , 2020, , .		0
119	Visualization of Retinal Ischemia using Multimodal Photoacoustic Microscopy and Optical Coherence Tomography in a Rabbit Model. , 2020, , .		0
120	Blue gold nanoparticles contrast-enhanced multimodal Photoacoustic Microscopy and Optical Coherence Tomography for molecular imaging of choroidal neovascularization. , 2020, , .		0
121	Integrated photoacoustic microscopy, optical coherence tomography and fluorescence microscopy imaging of rabbit ocular neovascularization in vivo. , 2020, , .		0
122	Multimodal photoacoustic microscopy and optical coherence tomography imaging of laser-induced choroidal neovascularization in the rabbit retina. , 2020, , .		0